SR.# PHOTOVOLTAIC ROOF MOUNT SYSTEM **PROJECT INFORMATION** 1 **PV MODULES** 45 x SILFAB ELITE SIL-410 BG 45 x IQ8PLUS-72-2-US 2 **INVERTER** THE INSTALLATION OF SOLAR ARRAYS AND PHOTOVOLTAIC POWER SYSTEMS SHALL COMPLY 3 **ROOF TYPE METAL ROOF** WITH THE FOLLOWING CODES: 2020 NATIONAL ELECTRICAL CODE RACKING PSR-B84 RAILS (BLACK) 2018 NORTH CAROLINA RESIDENTIAL CODE 2018 NORTH CAROLINA BUILDING CODE **MOUNTING TYPE** 5 S5 SOLARFOOT ALL OTHER ORDINANCE ADOPTED BY THE LOCAL GOVERNING AGENCIES DC SIZE 18.45 KW 6 **SITE NOTES / OSHA REGULATION** AC SIZE 13.05 KVA 7 A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS. THE SOLAR PV INSTALLATION SHALL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR **BUILDING ROOF VENTS.** ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED AND IDENTIFIED BY RECOGNIZED ELECTRICAL TESTING LABORATORY. MODULES AND SUPPORT STRUCTURES SHALL BE GROUNDED

SR.#	PF	ROJECT INFORMATION				
1	PV1	DRAWING INDEX				
2	PV2	SITE LAYOUT				
3	PV3	STRING MAPPING				
4	PV4	ELECTRICAL ONE LINE DIAGRAM				
5	PV5	DETAILED ELECTRICAL WIRING SCHEMATIC				
6	PV6	PV LABELS				
7	PV7	BILL OF MATERIALS				
8	PV8	ATTACHMENT DETAILS				



5112 Departure Drive, Raleigh NC 27616 0:919.948.6474 E: info@8msolar.com **Customer Information: Gerald B Rhodes** 2923 Highway 87 N Sanford NC 27332 **Customer Signature: Sheet Name:** Drawing Index **JOB NUMBER:**

8MSOLAR

23-625-GR

Date:	Revision:
12/11/2023	А
Sheet Size:	Sheet Number:
ANSI C 17" X 22"	PV1

CERTIFIED PV Installation Professional

Cripel Fill Sol Cripel Fill Sol Cary Raleigh Silor Cty Phisboro Apex Gamer Carthage 2923 NC 87 N, Sanford NC 27332, United States Southern Prins Sol Carbage Gamer Sol Carthage 2923 NC 87 N, Sanford NC 27332, United States Criek 14 Aberdisen Phis Sol Carbage Gamer 14 Fayetteville 14	Molville	1	-	
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Fayetteville	Aberdeen	The same of the same		
	2/1/		20	
		A A	Favetteville	
			XXX	

DESIGN CRITERIA WIND SPEED: 110 MPH	UTILITY DUKE EN
GROUND SNOW LOAD: 10 PSF	

VOC UNLESS NOT AVAILABLE.

PHYSICAL DAMAGE.

SOLAR CONTRACTOR

CONNECTIONS.

WIND EXPOSURE FACTOR: B

CODE AND STANDARDS

SOLAR INVERTER SHALL BE LISTED TO UL1741

DOCUMENTATION AND APPROVED BY THE AHJ.

ALL CONDUCTORS SHALL BE COPPER AND SHOULD BE 75 AND 90 DEG RATED

PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT GROUNDED CONDUCTORS.

MODULE CERTIFICATIONS INCLUDE UL1703, IEC61646, IEC61370.

REMOVAL OF AN INTERACTIVE INVERTER OR OTHER EQUIPMENT SHALL NOT DISCONNECT

THE BONDING CONNECTION BETWEEN THE GROUNDING ELECTRODE CONDUCTOR, THE

LIVE PARTS OF PV SOURCE CIRCUITS AND PV OUTPUT CIRCUITS OVER 150V TO GROUND

ALL PV MODULES AND ASSOCIATED EQUIPMENT AND WIRING SHALL BE PROTECTED FROM

SHALL NOT BE ACCESSIBLE TO OTHER THAN QUALIFIED PERSONS WHILE ENERGIZED.

IF APPLICABLE, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE MARKED

IN PLACE OF STANDARD GROUNDING LUGS AS SHOWN IN MANUFACTURER

GROUNDING LUG HOLES PER THE MANUFACTURERS INSTALLATION REQUIREMENTS.

ALL MICROINVERTERS, PHOTOVOLTAIC MODULES, AC COMBINERS, DC-AC CONVERTERS

TERMINALS AND LUGS WILL BE TIGHTENED TO MANUFACTURER TORQUE SPECIFICATIONS

AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER

(WHEN PROVIDED) IN ACCORDANCE WITH NEC CODE 110.14(D) ON ALL ELECTRICAL

7. MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR

SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATION PER NEC690.4(B).

ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH LOCAL BUILDING CODE.

AS INDICATED BY DESIGN, OTHER NRTL LISTED MODULE GROUNDING DEVICES MAY BE USED

COMPANY: NERGY **PERMIT ISSUER (AHJ):**

HARNETT COUNTY

SCOPE OF WORK INSTALLATION OF UTILITY INTERACTIVE PHOTOVOLTAIC SOLAR SYSTEM.

VICINITY MAP

TOP VIEW OF THE BUILDING

Molville		Durham	Wake Forest
	Chape Hill	800	
		Cary	Raleigh 204
Siler City	Pittsboro	Apex	Gamer
11/2		10.00	
	u u	4	9 1
	VA		
	Sanford		
arkwood	7/		
	9 0	Lilington	311
Carthage	2923 NC 87 N, Sanford, NC 27332, United States	Anderson Creek	Dunn
Southern	Spring		45
Aberdeen	100	4	
		Favetteville	13. 1/

	ROOF DES	CRIPTION		MODUI	LE DIMENSIONS
ROOF	PITCH	AZIMUTH	NO. OF MODULES		40.5 in
Α	22°	258°	45		
				73.4 in.	
				7	
			•		

No vents will be covered by

PV modules during the

installation

Note: Roof will be grounded by connecting it to any of array's ground

using a grounding lug.

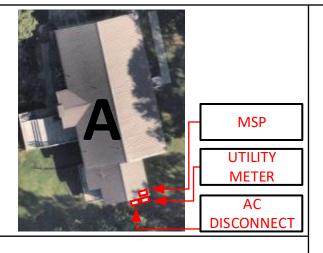
PV System Dead Load
(Panel + Racking weight) / PV System Area
(No. of panels x Weight of panel(lbs.) +Length of racking(ft.) x 1.15 lb.ft) /
(No. of panels x Height x Width) = Total psf

ROOF

A

DEAD LOAD
(PSF)

2.63



SYSTEM DETAILS

NUMBER OF PANELS : 45
PANELS MODEL : SILFAB ELITE SIL-410 BG

DC SIZE : 18.45 KW AC SIZE : 13.05 KVA



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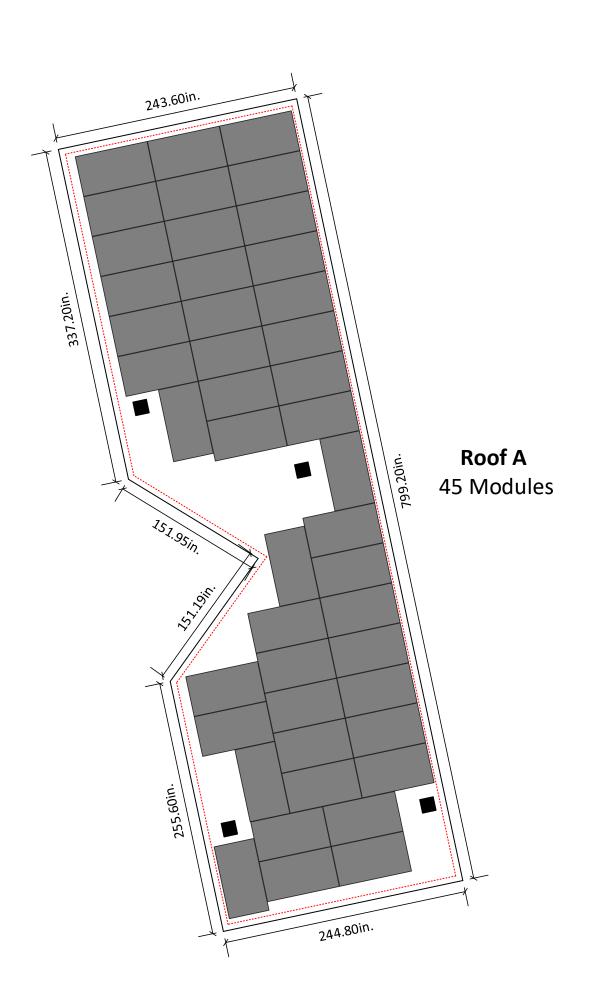
Site Layout

JOB NUMBER:

23-625-GR

	Date:	Revision:
	12/11/2023	А
•	Sheet Size:	Sheet Number:
	ANSI C 17" X 22"	PV2
ŀ		





6in setback from sides of the roof

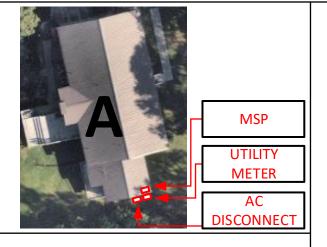
Vent

SITE LAYOUT SCALE: 1/8" - 1'

ROOF DESCRIPTION			MODUI	LE DIMENSIONS			STRING	LAYOUT			
ROOF	PITCH	AZIMUTH	NO. OF MODULES	J				ENPHASE IQ	COMBINER 4	ļ	
А	22°	258°	45			Strings #	No. of Modules	Color	Strings #	No. of Modules	Color
				73.4 in.		String 1	12		String 4	11	
				7		String 2	11				
						String 3	11				

6in setback from

sides of the roof



SYSTEM DETAILS

NUMBER OF PANELS : 45

PANELS MODEL : SILFAB ELITE SIL-410 BG

DC SIZE : 18.45 KW AC SIZE : 13.05 KVA



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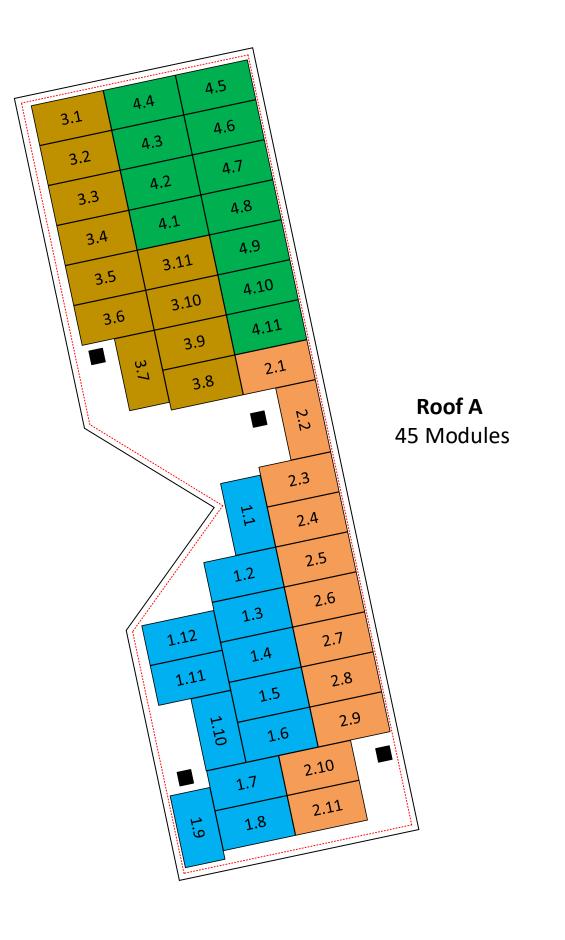
String Mapping

JOB NUMBER:

23-625-GR

Date:	Revision:
12/11/2023	А
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ANSI C 17" X 22"	PV3





STRING MAPPING
SCALE: 1/8" - 1'

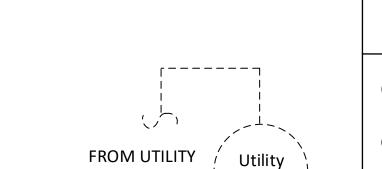
	STRING CALCULATION							
String #	No of Modules	Estimated Power	lmax	Voc	Vmpp	Vrise (<= 2%)		
1	12	4,920 W	18.15 AC	<30	240V AC	1.47+0.38 = 0.85		
2	11	4,510 W	16.63 AC	<30	240V AC	1.35+0.35 = 1.70		
3	11	4,510 W	16.63 AC	<30	240V AC	1.37+0.37 = 1.74		
4	11	4,510 W	16.63 AC	<30	240V AC	1.30+0.34 = 1.64		

NEC Code (2020) and UL Standard Refrences						
Rapid Shut Down	NEC 690.12 (A-D), UL1741	Grounding	NEC Article 250.30(A)			
Disconnecting Means	NEC 690.13	Conduit Fill	NEC Table C.9, 310.15(B)(3)(a)			
Feeder Sizing	NEC Table 310, 15(B)(16, 17)	Interconnection	NEC 705.12			
Over current Protection	NEC 690.9					



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Meter

Customer Information:

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Electrical One Line Diagram

JOB NUMBER:

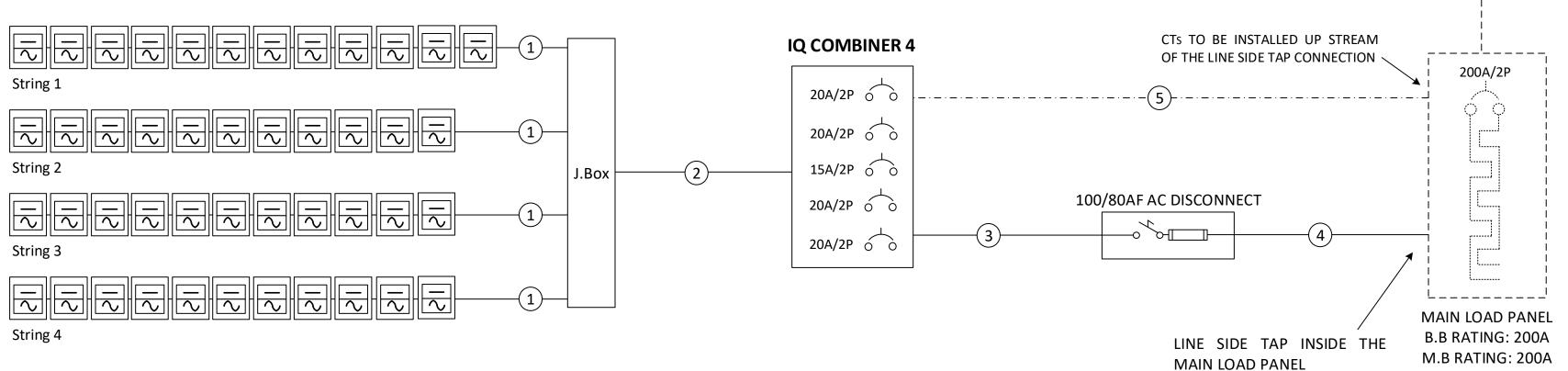
23-625-GR

Date:	Revision:
12/11/2023	Α
Sheet Size:	Sheet Number:
ANSI C 17" X 22"	PV4

ENPHASE IQ8PLUS-72-2-US MICROINVERTERS 290VA RAPID SHUTDOWN EQUIPPED

45 X SILFAB ELITE SIL-410 BG

410W

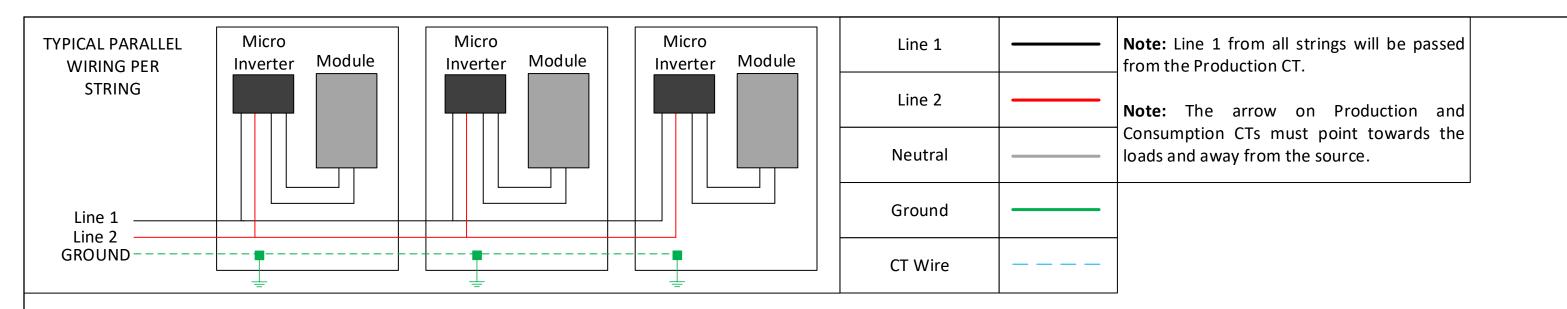


- System Size: 18,450W DC
- (45) SILFAB ELITE SIL-410 BG
- (45) ENPHASE IQ8PLUS-72-2-US MICROINVERTERS
- Inverter Output: 1.21A max @ 240 VAC (each microinverter)
- 290 VA AC output max (each micro inverter)
- 13.05 kVA AC output max

- Grounding will be done via Pegasus grounding lugs and mid-clamps to ensure the rail and panels are continuously grounded.
- Rapid Shutdown is included in the Micro Inverters, refer to Micro Inverter attached datasheets.
- The load center / disconnect will be visible, lockable accessible to utility linesmen and will be properly labelled as per NEC requirements. It will be located on the exterior wall of the building, next to the utility meter.

Sr.No	#Wire	Conduit Size	Ground Wire	Amperage
1	1 x #12 Q Cable		#10 Bare CU	20
2	8 x #10 THHN Cu 3/4" EMT		#10 Green Cu	20
3	3 x #4 THHN Cu	1" LFNC	#8 Green Cu	80
4	3 x #4 THHN Cu	1" EMT		80
5	Lead Wire 18AWG, PVC Extruded	3/4" EMT		







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Gerald B Rhodes

FROM UTILITY

GRID

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Customer Signature:

Sheet Name:

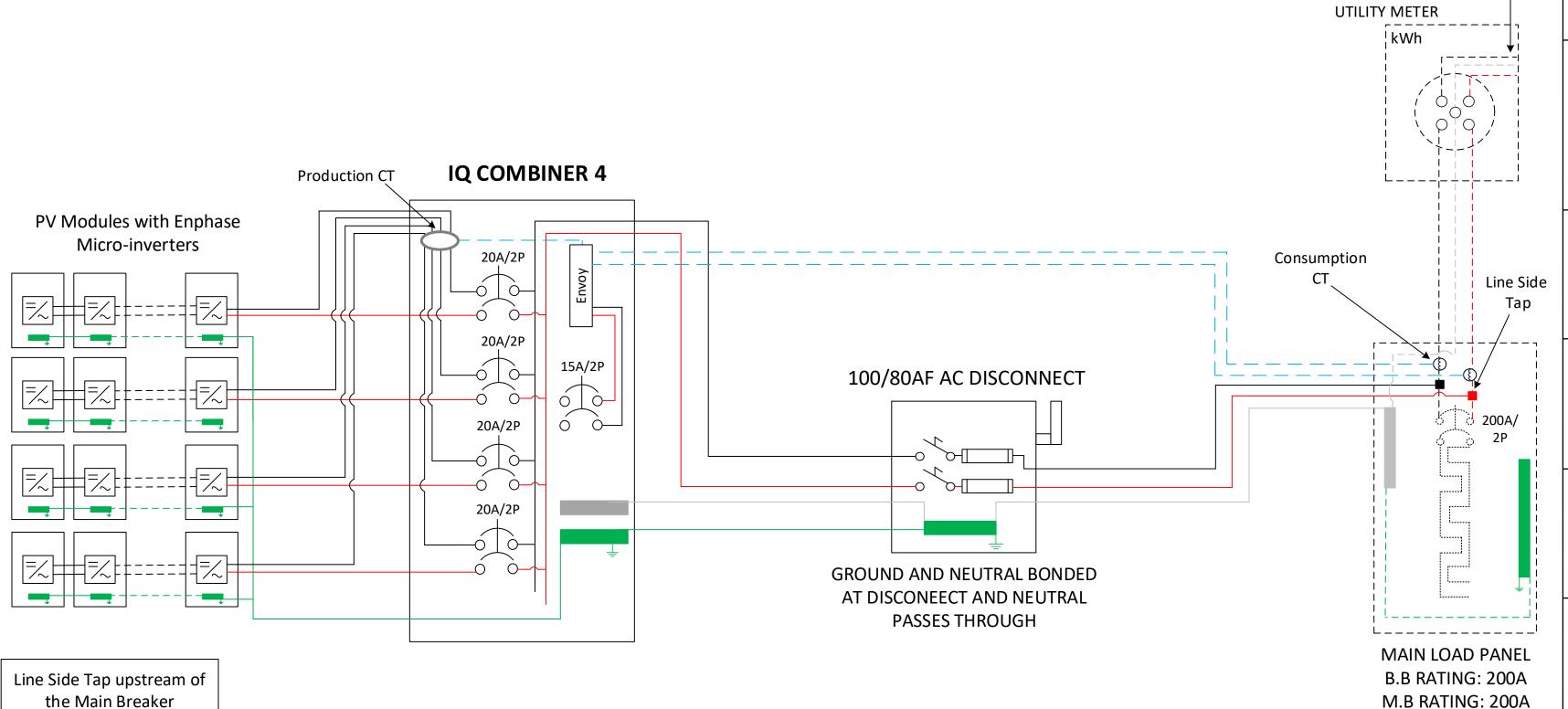
Detailed Electrical Diagram

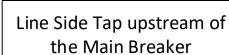
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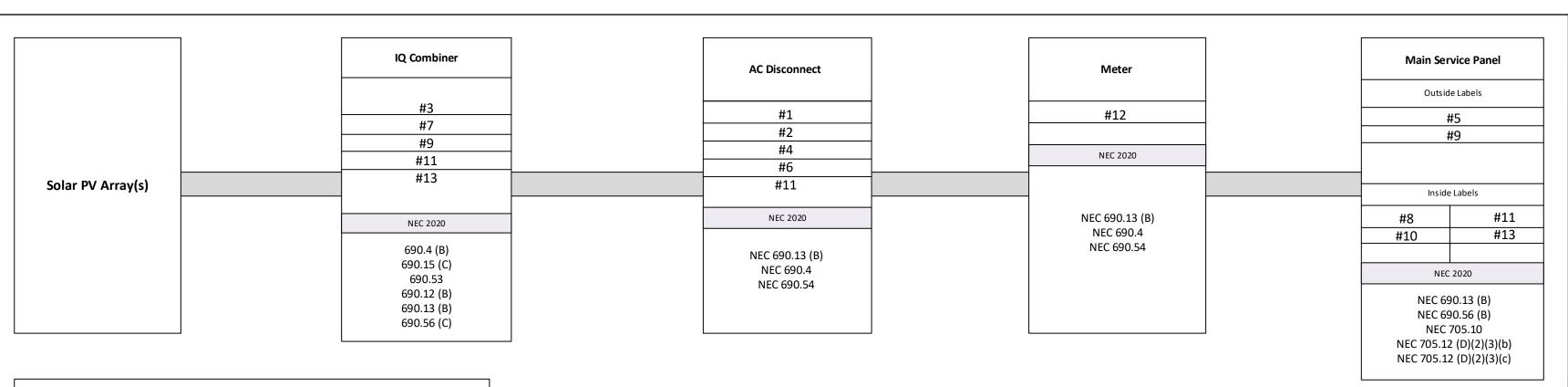
Date:	Revision:	
12/11/2023	А	
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ANSI C 17" X 22"	PV5	











LABELING AND WARNING SIGNS: NEC 2020

A. PURPOSE

PROVIDE EMERGENCY RESPONDERS WITH APPROPRIATE WARNING AND GUIDANCE WITH RESPECT TO ISOLATING THE SOLAR ELECTRIC SYSTEM. THIS CAN FACILITATE IDENTIFYING ENERGIZED ELECTRICAL LINES THAT CONNECT THE SOLAR PANELS TO THE INVERTER, AS SHOULD NOT BE CUT WHEN VENTING FOR SMOKE REMOVAL.

B. MAIN SERVICE DISCONNECT:

- 1. RESIDENTIAL BUILDINGS- THE MARKING MAY BE PLACED WITHIN THE MAIN SERVICE DISCONNECT. THE MARKING SHALL BE PLACED ON THE OUTSIDE COVER IF THE MAIN SERVICE DISCONNECT IS OPERABLE WITH THE SERVICE PANEL CLOSED.
- 2. COMMERCIAL BUILDINGS- THE MARKINGS SHALL BE PLACED ADJACENT TO THE MAIN SERVICE DISCONNECTCLEARLY VISIBLE FROM THE LOCATION WHERE THE LEVER IS OPERATED
- 3. MARKINGS, VERBIAGE, FORMAT AND TYPE OF MATERIAL
 - a. VERBIAGE: CAUTION; SOLAR ELECTRIC SYSTEM CONNECTED b. FORMAT:
 - (1) WHITE LETTERING ON A RED BACKGROUND
 - (2) MINIMUM 3/8 INCH LETTER HEIGHT
 - (3) ALL LETTERS SHALL BE CAPITALIZED
 - (4) ARIAL OR SIMILAR FONT, NON-BOLD

c. MATERIAL:

- (1) REFLECTIVE, WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT (USE UL-969) AS STANDARD FOR WEATHER RATING): DURABLE ADHESIVE MATERIALS MEET THIS REQUIREMENT.
- C. MARKING REQUIREMENTS ON CONDUIT, RACEWAYS, ENCLOSURES, CABLE ASSEMBLIES, COMBINERS AND JUNCTION BOXES;
 - 1. MARKING: PLACEMENT, VERBIAGE, FORMAT AND TYPE OF MATERIAL.
 - a. PLACEMENT: MARKINGS SHALL BE PLACED EVERY 10 (TEN) FEET ON ALL INTERIOR AND EXTERIOR DC CONDUITS, RACEWAYS, ENCLOSURES AND CABLE ASSEMBLIES, AT TURNS ABOVE AND/OR BELOW PENETRATIONS, ALL COMBINERS AND JUNCTION BOXES. b. VERBIAGE: CAUTION SOLAR CIRCUIT
 - c. THE FORMAT AND TYPE OF MATERIAL SHALL ADHERE TO SECTION B-3.B & C ABOVE
- D. INVERTERS ARE NOT REQUIRED TO HAVE CAUTION MARKINGS



RAPID SHUTDOWN
SWITCH FOR
SOLAR PV SYSTEM

#3 PHOTOVOLTIVC POWER SOURCE

OPERATING AC VOLTAGE 240 V

MAXIMUN OPERATING AC OUTPUT CURRENT 54.45 A

AC DISCONNECT

PHOTOVOLTAIC SYSTEM

POWER SOURCE

RATED AC

OUTPUT CURRENT

NOMINAL OPERATING
AC VOLTAGE

240 VOLTS

#5 SOLAR AC DISCONNECT LOCATED AT SOUTH SIDE WALL OF THE HOUSE BESIDE THE UTILITY METER

#6
SERVICE DISCONNECT LOCATED
INSIDE THE MAIN LOAD PANEL

PHOTOVOLTAIC SYSTEM
COMBINER PANEL
DO NOT ADD LOADS

#8 . WARNING

THIS EQUIPMENT FED BY MULTIPLE
SOURCES.TOTAL RATING OF ALL
OVERCURRENT DEVICES,EXCLUDING
MAIN SUPPLY OVERCURRENT
DEVICE,SHALL NOT EXCEED
AMPACITY OF BUSBAR



DUAL POWER SUPPLY
SOURCES: UTILITY GRID AND
PV SOLAR ELECTRIC SYSTEM

#10 ! WARNING

TURN OFF PHOTOVOLTAIC
AC DISCONNECT PRIOR TO
WORKIN INSIDRE PANEL

#11

! WARNING

ELECTRIC SHOCK HAZARD

TERMIONAL OM THE LINE AND LOAD

SIDES MAY BE ENERGIZED IN THE OPEN

#12 ! WARNING

THIS SERVICE METER
IS ALSO SERVED BY A PHOTOVOLTAIC
SYSTEM

POSITION

#13 SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

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





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Sheet Name:

PV Labels

JOB NUMBER:

23-625-GR

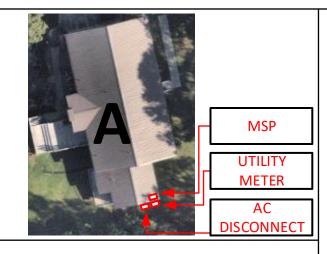
Date:
Revision:

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Sheet Size:
ANSI C
17" X 22"
PV6



ROOF DESCRIPTION				MODULE DIMENSIONS	Daile and Calines - DCD DC4 (DLACK)	Doof Attackment of Colores
ROOF	PITCH	AZIMUTH	NO. OF MODULES	40.5 in	Rails and Splices : PSR-B84 (BLACK)	Roof Attachment : S5 SolarFoot
А	22°	258°	45	73.4 in.	Rafter Spacing: 24 in	There is an exposed fastened 9" AG panel metal roof
					Attachment Span: 4ft	The roof is located in 110mph wind zone





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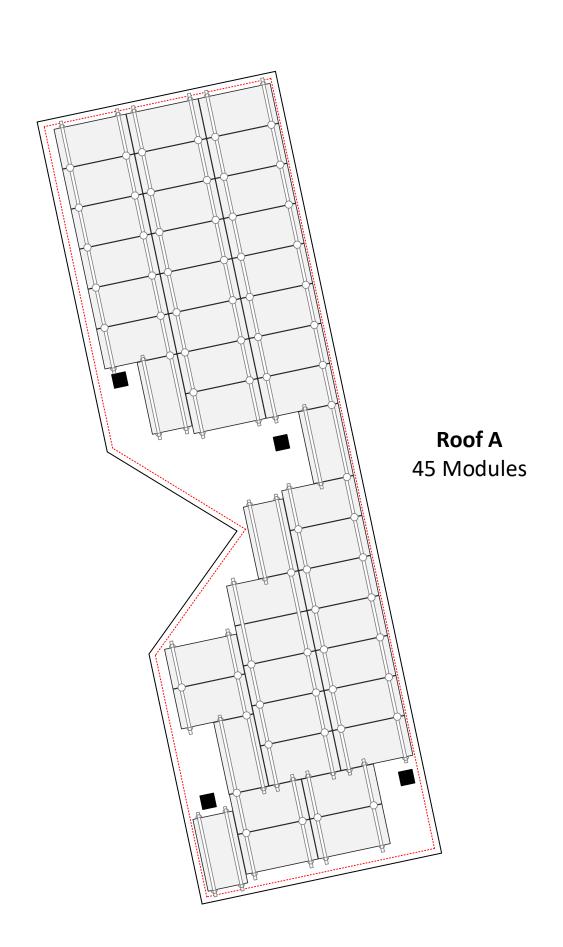
Bill of Material

JOB NUMBER:

23-625-GR

Date:	Revision:		
12/11/2023	А		
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311001 31201			
ANSI C 17" X 22"	PV7		

Note: Roof will be grounded by connecting it to any of array's ground using a grounding lug.



RAILS AND MOUNTING SYSTEM

- 52 x PSR-B84: Pegasus Rail, Black, 84" (7 Feet)
- 32 x PSR-SPL: Pegasus Bonded, Structural Splice
- 70 x PSR-MCB: Pegasus Multiclamp, Mid/End, 30 to 40 mm, Black
- 52 x PSR-HEC: Pegasus Hidden End Clamp
- 45 x PSR-MLP: Pegasus MLPE Mount
- 15 x PSR-LUG: Pegasus Grounding Lug
- 70 x PSR-WMC: Pegasus Wire Management Clip
- 08 x PSR-CBG: Pegasus Cable Grip
- 52 x PSR-CAP: Pegasus End Cap
- 108 x LFT-03-M1 Slotted L-Foot, Mill
- 108 x PSR-DTN: Pegasus, Dovetail 3/8" T-Bolt
- 108 x S-5-Solarfoot
- 432 x 1/4-14 Type 17 AB Milled Point, 2-1/2"Length (Metal to Wood Screw) 250/bag
- 90 x Heyco Wire Clips

SOLAR MODULES

• 45 x SILFAB ELITE SIL-410 BG

INVERTER & SUPPORTING ITEMS

- 45 x Enphase IQ8PLUS-72-2-US micro inverter
- 01 x X-IQ-AM1-240-4: IQ Combiner 4

ENPHASE CABLES AND ACCESSORIES

- 45 x Q-12-10-240: Q Cable
- 07 x Q-12-20-200: Q Cable
- 01 x Q-12-RAW-300:Q Cable, 12 AWG (100ft)
- 22 x Q-CONN-10M Male Field-wireable connector
- 22 x Q-CONN-10F Female Field-wireable connector
- 04 x Q-TERM-10: Terminator Cap
- 06 x Q-SEAL-10: Female Sealing Cap
- 01 x Q-CLIP-100: Q Cable rail mount cable management clip (Pack of 100)
- 01 x Q-DISC-10: Disconnect tool

ELECTRICAL ITEMS

- 04 x Eaton BR220B with hold down kit support (Circuit breaker, 2 pole,
- 02 x IPCS 4002: Line/Load Side Hot Taps (#4/0 main #2-10 tap) Medium types
- 01 x D223NRB: 250volt/100amp/2pole fusible disconnect (NEMA 3R)
- 02 x SQUARE D FRNR80: 250volt/80amp fuses

N **BILL OF MATERIAL** SCALE: 1/8" - 1'

6in setback from sides of the roof

PV LABELS

Code

03-302

02-316

03-390

03-306

8M-001

8M-002

03-355

05-108

05-211

05-372

05-215

07-359

07-111

Qty

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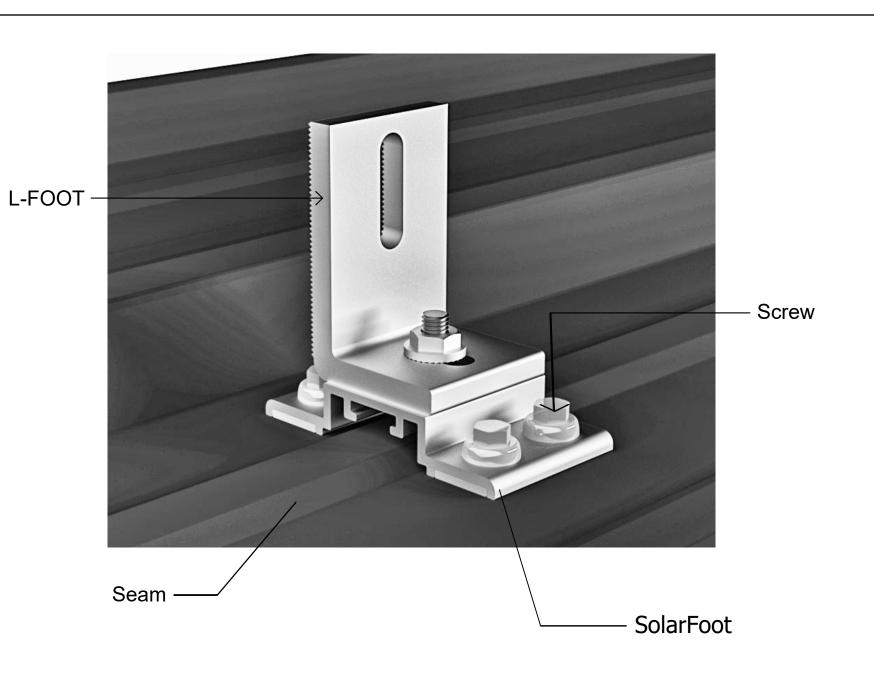
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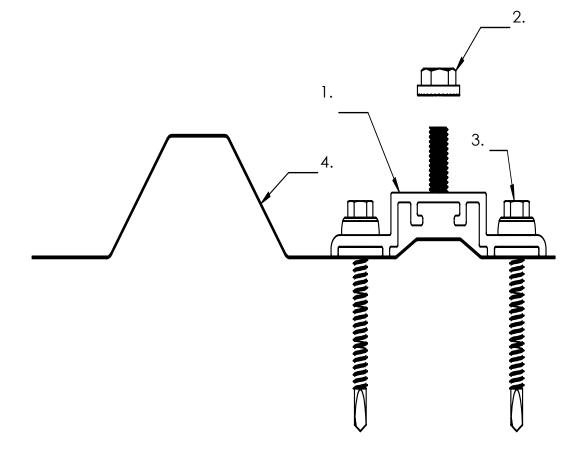
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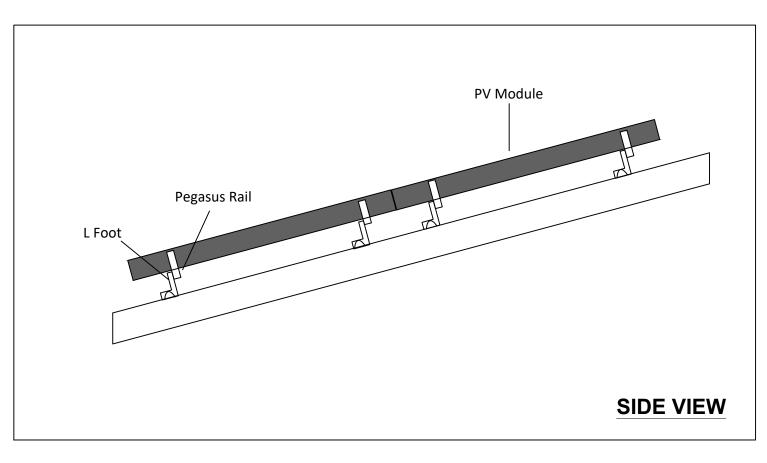
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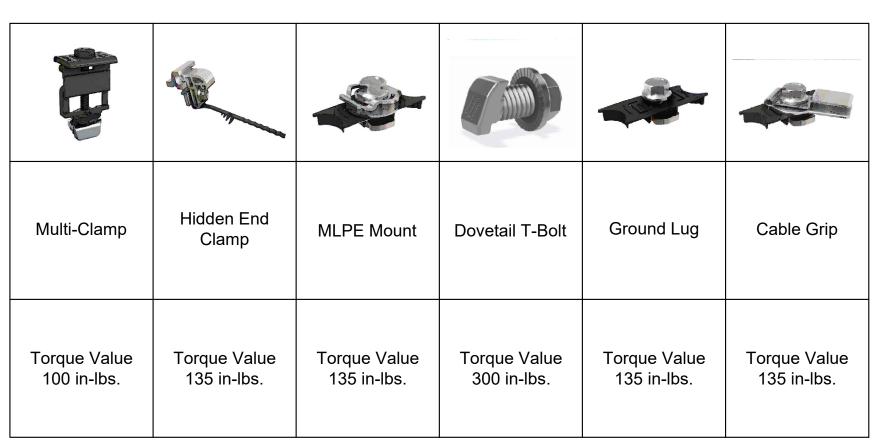


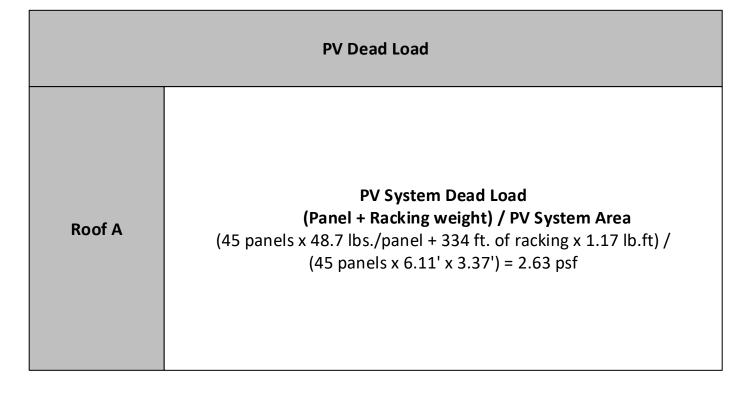




- 1.SolarFoot
- 2.M8-1.25 Stainless Steel Hex Flange Nut (13mm Socket)
- 3.Screw
- 4. Metal roof









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Customer Signature:

Sheet Name:

Attachment Details

JOB NUMBER:

CERTIFIED

PV Installation Professional

Ali Buttar PVIP #031310-32

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Revision:	
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