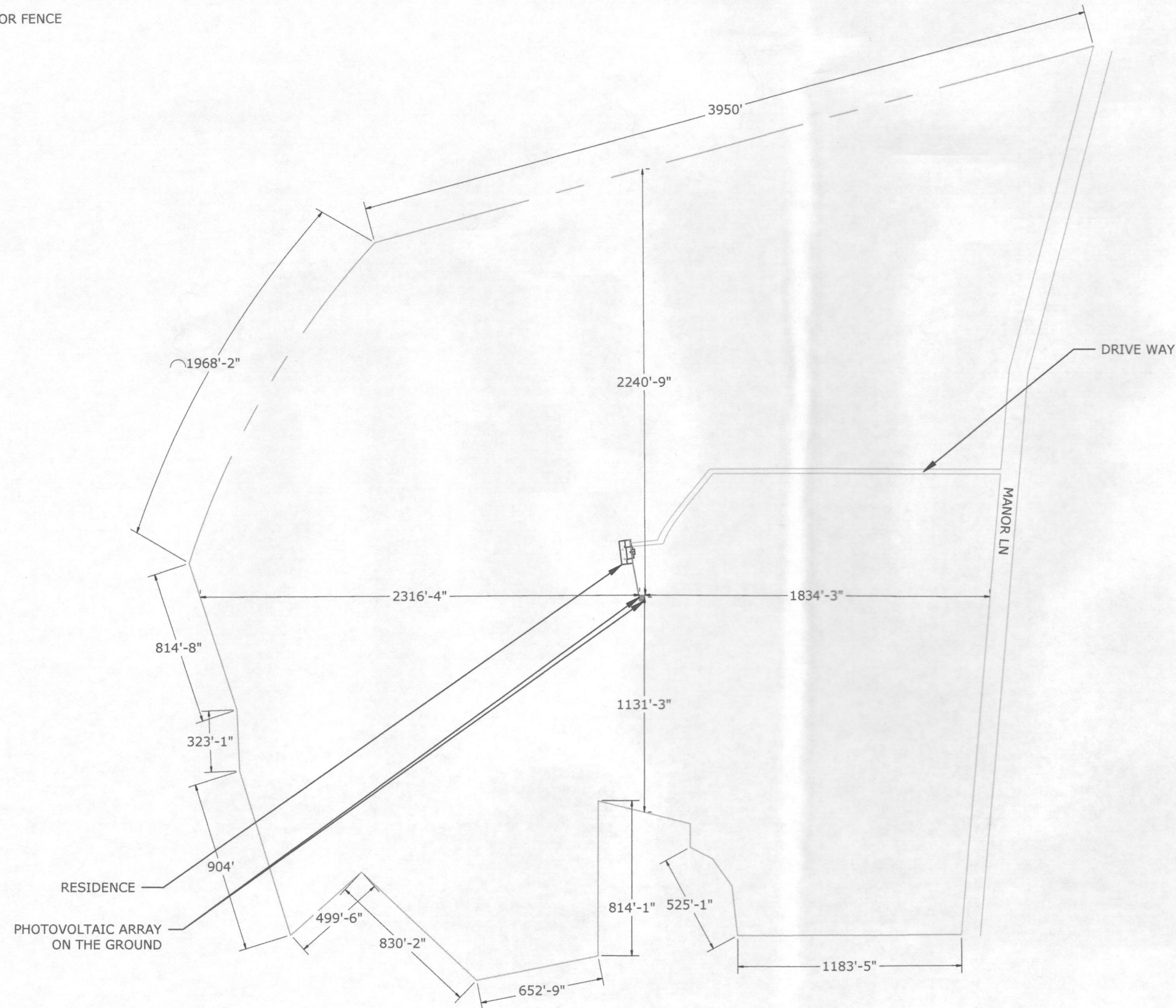


# NATALIE ZIEGLER - 10.400kW DC, 10.000kW AC, 16KWH ENERGY STORAGE SYSTEM

## SITE PLAN LAYOUT

NOTE: NO GATE OR FENCE



SCALE: 1" = 500'-0"



LICENSE NO: MHIC 126915

### CUSTOMER INFORMATION

NAME: NATALIE ZIEGLER

ADDRESS: 4044 MANOR LN, ELLICOTT CITY, MD 21042

39.258151, -76.899804  
APN: 1403322173

AHJ: MD-COUNTY HOWARD

UTILITY: BGE

PRN NUMBER: SES-49782

### COVER PAGE - 2

DRAFTED BY: D.XAVIER  
QC'ED BY: S.GOPAL

PAPER SIZE: 17"X11"

SCALE: AS NOTED

REV: D

DATE: 5/6/2022

T-02

SHEET CATALOG	
INDEX NO.	DESCRIPTION
T-01	COVER PAGE-1
T-02	COVER PAGE-2
S-01	MOUNTING DETAIL
S-02	STRUCTURAL DETAIL
E-01	SINGLE LINE DIAGRAM
E-02	ELECTRICAL CALCULATIONS
PL-01	WARNING PLACARDS
PL-02	STRING MAP
PL-03	OPTIMIZER MAP
SS	SPEC SHEET(S)

**SCOPE OF WORK**

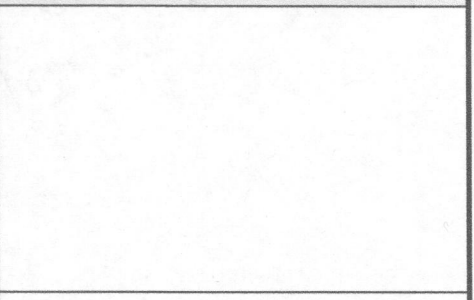
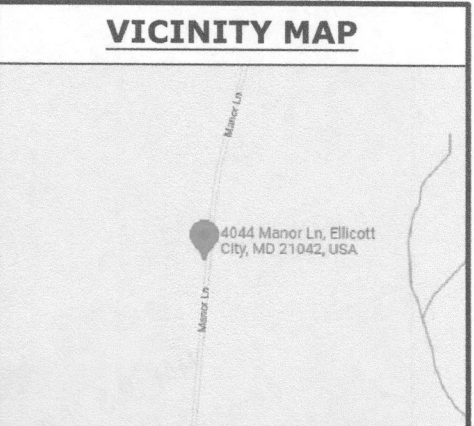
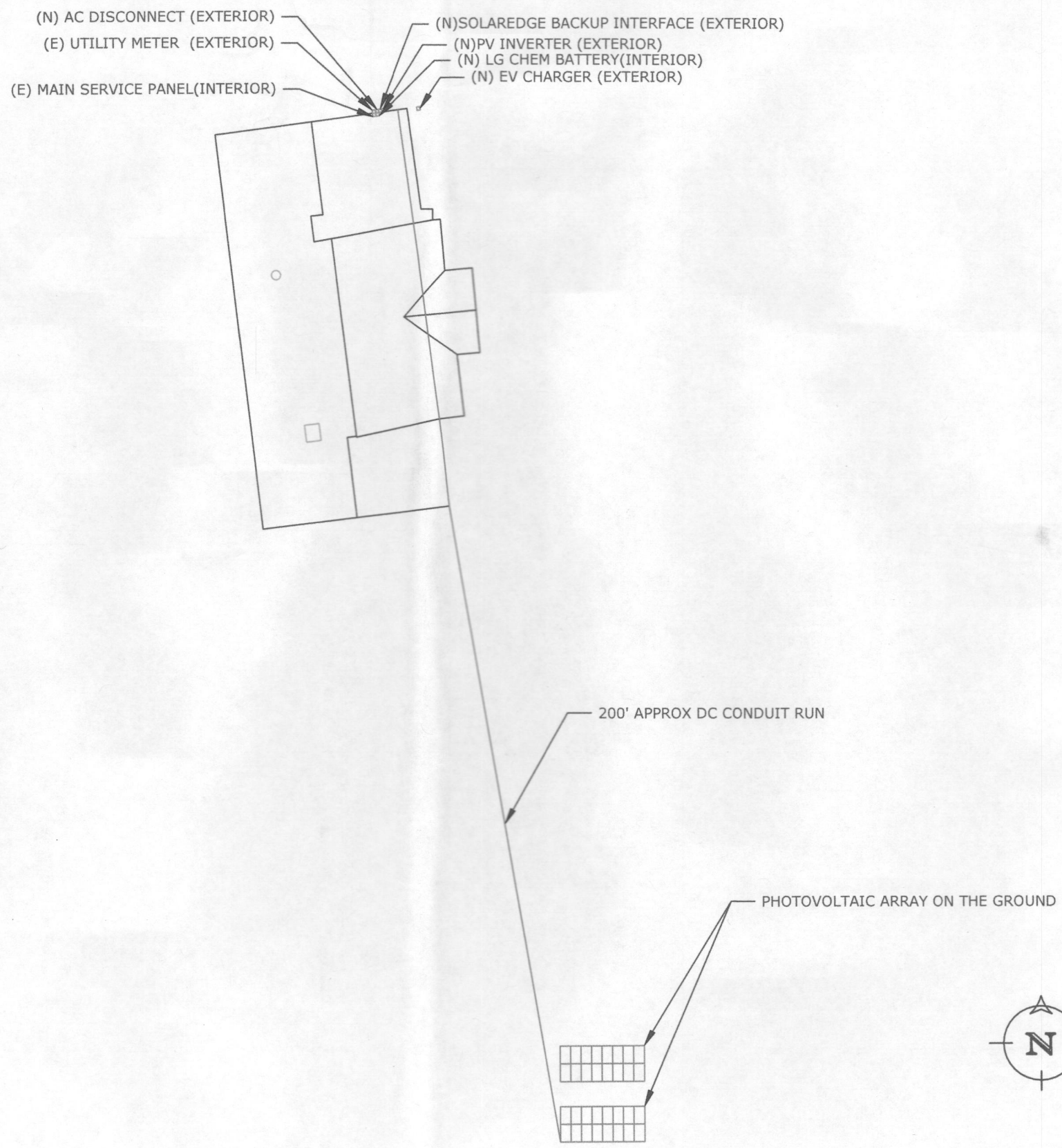
GENERAL SYSTEM INFORMATION:  
 SYSTEM SIZE:  
 10400W DC, 10000W AC, 16KWH ENERGY STORAGE SYSTEM  
 MODULES:  
 (32)REC SOLAR REC ALPHA REC325TP2M BLACK  
 INVERTER:  
 (1)SOLAREEDGE TECHNOLOGIES SE10000H-US ENERGY HUB(240V)  
 OPTIMIZER:  
 (32)SOLAREEDGE P340 POWER OPTIMIZER  
 BATTERY:  
 (1)LG RESU16H PRIME BATTERY(16kWh)  
 EV CHARGER:  
 (1) SOLAREEDGE SMART EV CHARGER

- APPLICABLE CODES**
- ELECTRIC CODE:NEC 2020
  - FIRE CODE:IFC 2021
  - BUILDING CODE:IBC 2021
  - RESIDENTIAL CODE:IRC 2021

- GENERAL NOTES**
- 1.MODULES ARE LISTED UNDER UL 1703 AND CONFORM TO THE STANDARDS.
  - 2.INVERTERS ARE LISTED UNDER UL 1741 AND CONFORM TO THE STANDARDS.
  - 3.DRAWINGS ARE DIAGRAMMATIC, INDICATING GENERAL ARRANGEMENT OF THE PV SYSTEM AND THE ACTUAL SITE CONDITION MIGHT VARY.
  - 4.WORKING CLEARANCES AROUND THE NEW PV ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH NEC 110.26.
  - 5.ALL GROUND WIRING CONNECTED TO THE MAIN SERVICE GROUNDING IN MAIN SERVICE PANEL/ SERVICE EQUIPMENT.
  - 6.ALL CONDUCTORS SHALL BE 600V, 75°C STANDARD COPPER UNLESS OTHERWISE NOTED.
  - 7.WHEN REQUIRED, A LADDER SHALL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.
  - 8.THE SYSTEM WILL NOT BE INTERCONNECTED BY THE CONTRACTOR UNTIL APPROVAL FROM THE LOCAL JURISDICTION AND/OR THE UTILITY.
  - 9.PV ARRAY COMBINER/JUNCTION BOX PROVIDES TRANSITION FROM ARRAY WIRING TO CONDUIT WIRING

# NATALIE ZIEGLER - 10.400kW DC, 10.000kW AC, 16KWH ENERGY STORAGE SYSTEM

## SITE PLAN LAYOUT



LICENSE NO: MHIC 126915

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UTILITY:BGE

PRN NUMBER:SES-49782

**COVER PAGE**

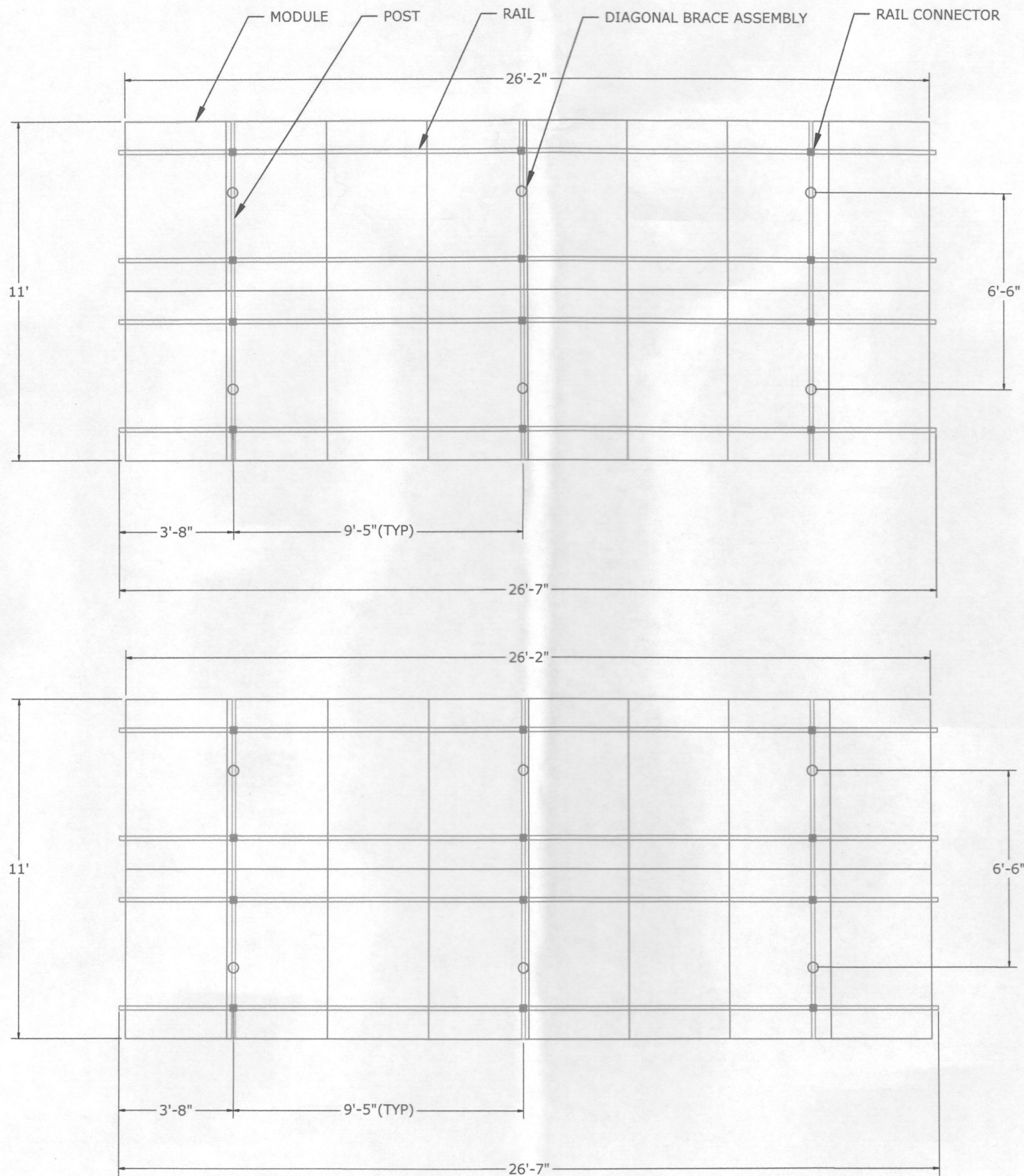
DRAFTED BY: D.XAVIER	PAPER SIZE:17"X11"
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DATE:5/6/2022	T-01

**INSTALLATION NOTES:**

1. SOLAR PHOTOVOLTAIC SYSTEM TO BE INSTALLED ON THE GROUND.
2. THIS PROJECT HAS BEEN DESIGNED IN COMPLIANCE WITH THE IBC 2021 TO WITHSTAND A BASIC WIND SPEED OF 110 MPH (3 SECOND GUST), WIND EXPOSURE C.

**SITE INFORMATION - WIND SPEED: 110 MPH AND SNOW LOAD: 25 PSF**

SR. NO	AZIMUTH	PITCH	NO. OF MODULES
MP-01	180°	30°	32



SCALE: 1/4" = 1'-0"



LICENSE NO: MHIC 126915

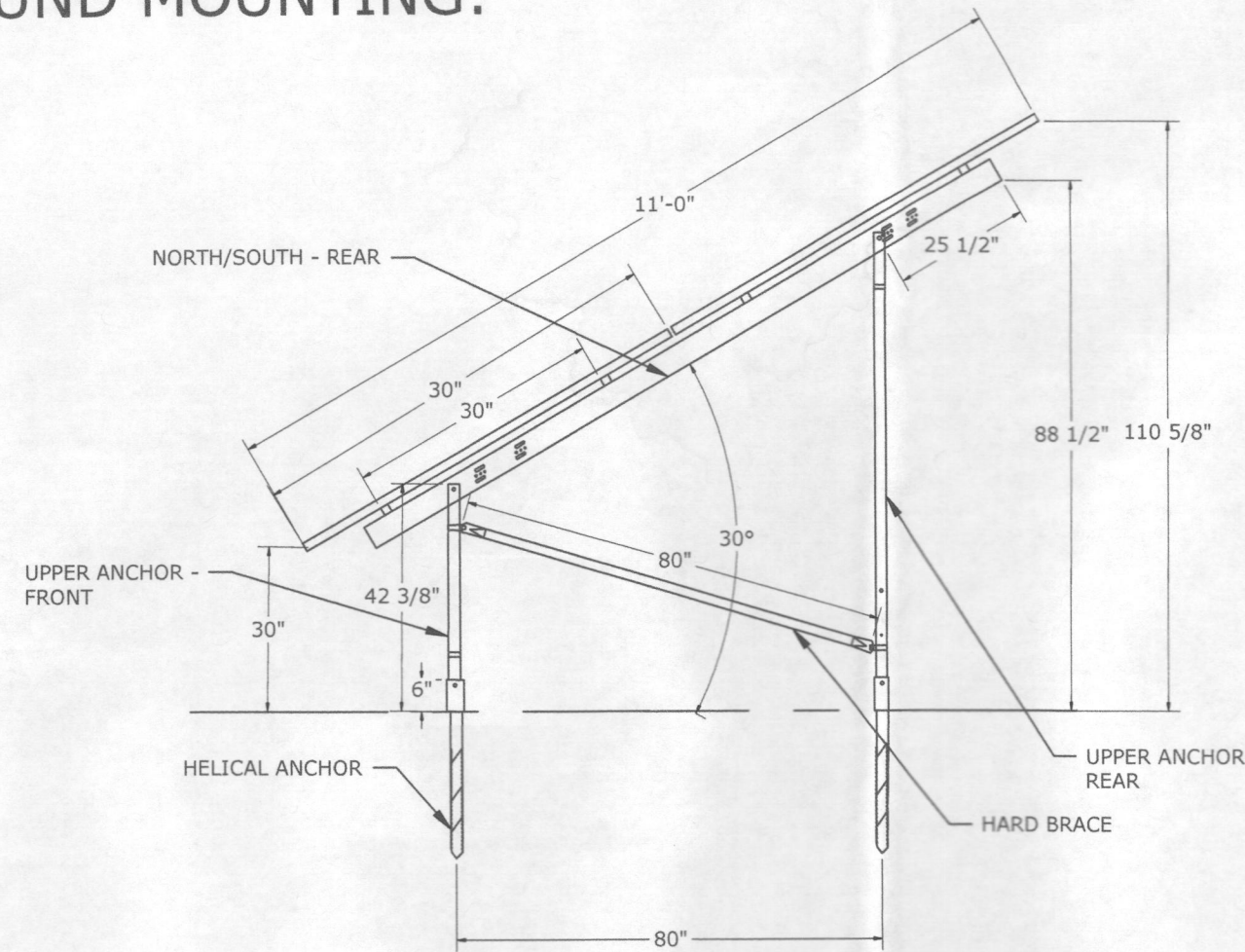
**CUSTOMER INFORMATION**

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 39.258151, -76.899804  
 APN: 1403322173  
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**MOUNTING DETAIL-2**

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# SIDE VIEW OF GROUND MOUNTING:



## MODULES DATA

REC SOLAR REC ALPHA REC325TP2M  
BLACK

MODULE DIMS 66.3"x39.25"x1.5"



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## STRUCTURAL DETAIL-2

DRAFTED BY: D.XAVIER  
QC'ED BY: S.GOPAL

PAPER SIZE: 17"X11"

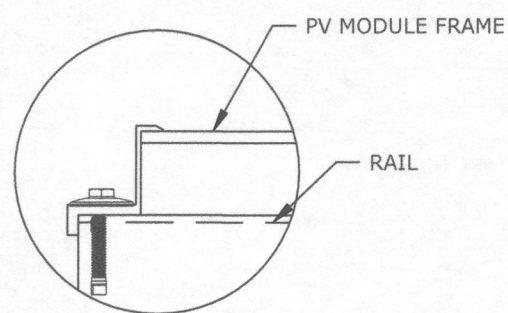
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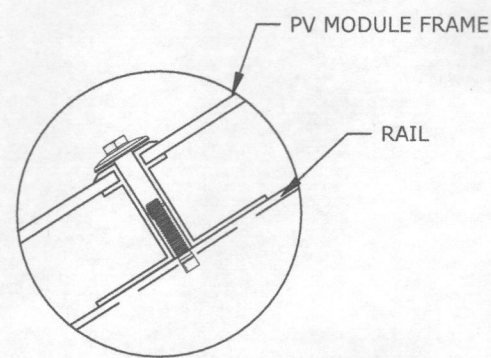
DATE: 5/6/2022

S-02

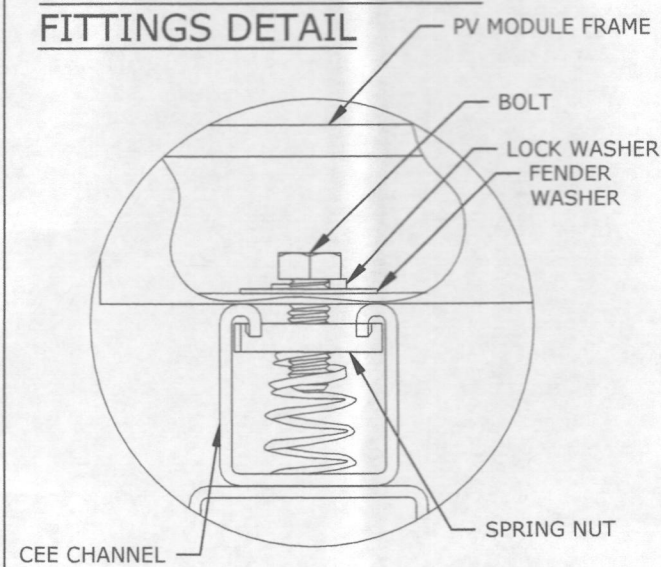
### END CLAMPS DETAIL



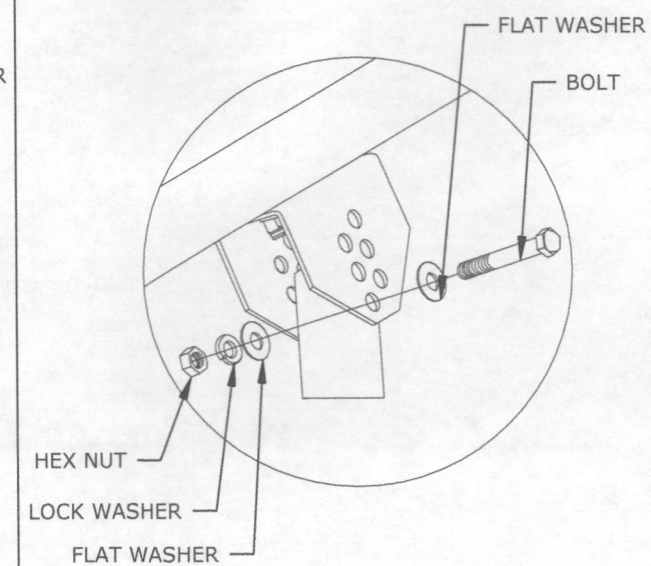
### MID CLAMPS DETAIL



### CEE CHANNEL AND RAIL FITTINGS DETAIL



### POST AND CEE CHANNEL ASSEMBLY



**SINGLE LINE DIAGRAM: DC SYSTEM SIZE - 10400W, AC SYSTEM SIZE - 10000W, 16KWH ENERGY STORAGE SYSTEM**

INVERTER-1 SPECIFICATIONS	
MODEL	SOLAREGE TECHNOLOGIES SE10000H-US ENERGY HUB(240V)
POWER RATING	10000W
MAX OUTPUT CURRENT	42A
CEC WEIGHTED EFFICIENCY	99%
MAX INPUT CURRENT	27A
MAX DC VOLTAGE	480V

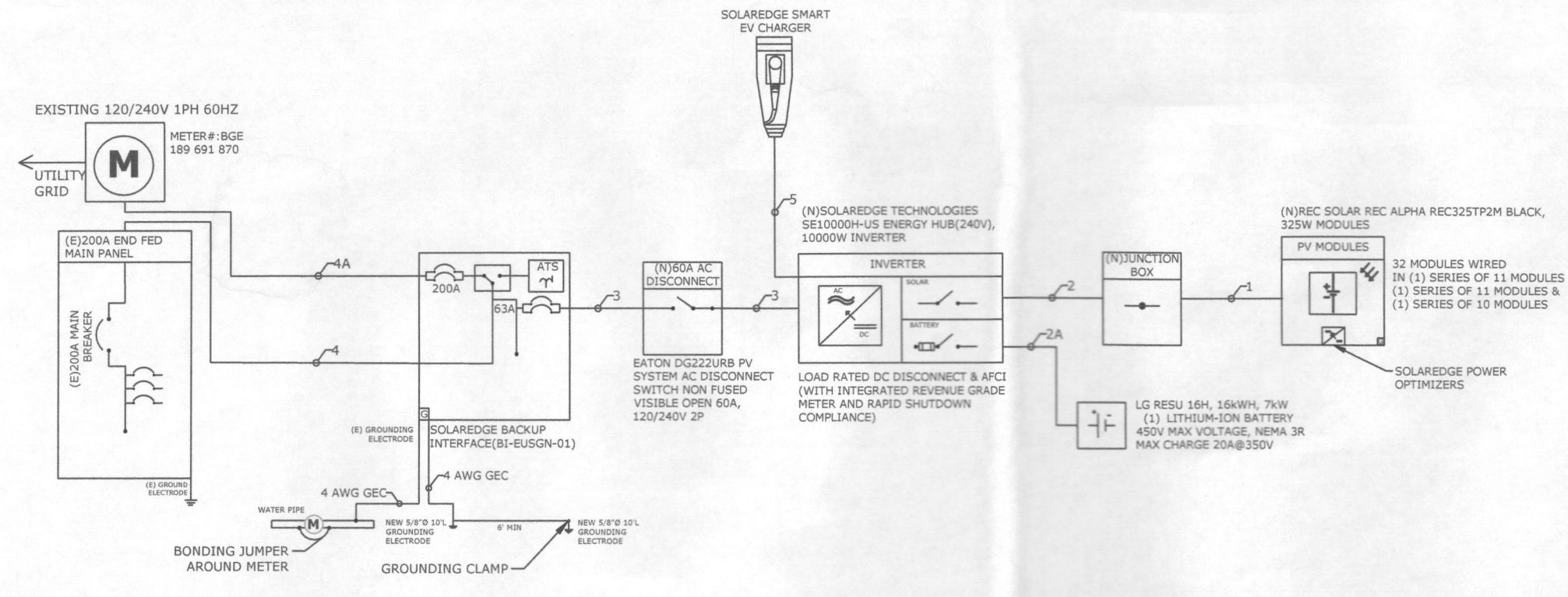
MODULE SPECIFICATION	
MODEL	REC SOLAR REC ALPHA REC325TP2M BLACK
MODULE POWER @ STC	325W
OPEN CIRCUIT VOLTAGE: <b>Voc</b>	40.3V
MAX POWER VOLTAGE: <b>Vmp</b>	34.0V
SHORT CIRCUIT CURRENT: <b>Isc</b>	10.15A
MAX POWER CURRENT: <b>Imp</b>	9.56A

OPTIMIZER CHARACTERISTICS	
MODEL	P340
MIN INPUT VOLTAGE	8 VDC
MAX INPUT VOLTAGE	48 VDC
MAX INPUT CURRENT	11 ADC
MAX OUTPUT CURRENT	15 ADC

SYSTEM CHARACTERISTICS	
DC SYSTEM SIZE	10400W
INVERTER STRING VOLTAGE: <b>Vmp</b>	400V
MAX INVERTER SYSTEM VOLTAGE: <b>Voc</b>	480V
MAX SHORT CIRCUIT CURRENT	45A
OPERATING CURRENT	26.00A

DC VOLTAGE DROP CALCULATIONS	
Select Material	Cu
Select Wire Size	10
Select Conduit Type	PVC
Select Voltage & Phase	400
Enter Distance to Load (ft)	200
Enter Load (Amps)	15
OUTPUTS	
Voltage Drop (Volts)	5.99
% Voltage Drop	1.50
VARIABLES	
Phase Factor	1.732
K	12.9
Q-Factor	1
Circular Mills	10380

- ELECTRICAL NOTES**
- CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC 310.10(D).
  - CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER NEC 310.10(C).
  - MAXIMUM DC/AC VOLTAGE DROP SHALL BE NO MORE THAN 2%.
  - ALL CONDUCTORS SHALL BE IN CONDUIT UNLESS OTHERWISE NOTED.
  - BREAKER/FUSE SIZES PER NEC 240.
  - AC EQUIPMENT GROUNDING ELECTRODE CONDUCTOR SIZED PER NEC 250.122.
  - AMBIENT TEMPERATURE CORRECTION FACTOR IS BASED ON NEC 690.31(A).
  - AMBIENT TEMPERATURE ADJUSTMENT FACTOR IS BASED ON NEC 310.15(B)(2).
  - MAX. SYSTEM VOLTAGE CORRECTION IS PER NEC 690.7.
  - CONDUCTORS ARE SIZED PER NEC TABLE 310.15(B)(16).



**Solar Energy Services, Inc.**  
LICENSE NO: MHIC 126915

CONDUIT SCHEDULE				
TAG ID	CONDUIT SIZE	CONDUCTOR	NEUTRAL	GROUND
1	NONE	(6) 10AWG PV WIRE	NONE	(1) 10 AWG BARE COPPER
2	1/2" SCH 40 PVC (BELOW GROUND) 1/2" SCH 80 PVC (ABOVE GROUND)	(6) 10AWG THHN/THWN-2	NONE	(1) 10 AWG THHN/THWN-2
2A	3/4" EMT	(2) 10AWG THHN/THWN-2	(2) 10AWG THHN/THWN-2	(2) 10AWG THHN/THWN-2
WIRE IS SHIELDED 600V RATED CAT5E				
3	3/4" EMT	(2) 6 AWG THHN/THWN-2	(1) 6 AWG THHN/THWN-2	(1) 10 AWG THHN/THWN-2
4	2" EMT	(2) 4/0(AL)SER	(2) 4/0(AL)SER	(2) 2/0(AL)SER
4A	#4/0 AL SEU CABLE			
5	3/4" EMT	(2) 6 AWG THHN/THWN-2	(1) 6 AWG THHN/THWN-2	(1) 10 AWG THHN/THWN-2

**NOTE:**  
MAIN PANEL RATING:200A, MAIN BREAKER RATING:200A

**OC PD CALCULATIONS:**  
INVERTER OVERCURRENT PROTECTION= INVERTER O/P I X CONTINUOUS LOAD(1.25)  
=42x1.25x1=52.50A=>PV BREAKER = 60A  
TOTAL REQUIRED PV BREAKER SIZE / FUSE SIZE=>60A PV BREAKER

**NOTE: 4/0 SE WHICH IS A FLAT SERVICE ENTRANCE CABLE WITH TWO CONDUCTORS AND A CONCENTRIC GROUND**

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**DC WIRE SIZING CALCULATIONS BASED OF FOLLOWING EQUATIONS >>>**

- REQUIRED CONDUCTOR AMPACITY:  $125\% \times I_{sc}(A) \times \# \text{ OF PARALLEL STRINGS} = \text{MAX CURRENT PER } 690.8(A)(1) \times 125\% = \text{MAX CURRENT PER } 690.8(B)(1)$
- CORRECTED AMPACITY CALCULATIONS:  $\text{AMPACITY} \times \text{TEMPERATURE DERATE FACTOR} \times \text{CONDUIT FILL DERATE} = \text{DERATED CONDUCTOR AMPACITY PER } 690.8(B)(2)$
- DERATE CONDUCTOR AMPACITY CHECK:  $\text{MAX CURRENT PER } 690.8(A)(1) < \text{DERATED CONDUCTOR AMPACITY}$

**AC WIRE SIZING CALCULATIONS BASED OF FOLLOWING EQUATIONS >>>**

- REQUIRED CONDUCTOR AMPACITY:  $\text{INVERTER OUTPUT CURRENT} \times \# \text{ OF INVERTERS} = \text{MAX CURRENT PER } 690.8(A)(3) \times 125\% = \text{MAX CURRENT PER } 690.8(B)(1)$
- CORRECTED AMPACITY CALCULATIONS:  $\text{AMPACITY} \times \text{TEMPERATURE DERATE FACTOR} \times \text{CONDUIT FILL DERATE} = \text{DERATED CONDUCTOR AMPACITY PER } 690.8(B)(2)$
- DERATED CONDUCTOR AMPACITY CHECK:  $\text{MAX CURRENT PER } 690.8(A)(3) < \text{DERATED CONDUCTOR AMPACITY}$

**ELECTRICAL CALCULATIONS**

DC WIRE CALCULATIONS:- MATERIAL: COPPER & TEMPERATURE RATING: 90°C

TAG ID	REQUIRED CONDUCTOR AMPACITY				CORRECTED AMPACITY CALCULATION				DERATED CONDUCTOR AMPACITY CHECK												
1	1	X	15	X	1	=	15	X	1.25	=	18.75A	40	X	0.58	X	1	=	23.20A	18.75A	<	23.20A
2	1	X	15	X	1	=	15	X	1.25	=	18.75A	40	X	0.71	X	0.8	=	22.72A	18.75A	<	22.72A

AC WIRE CALCULATIONS:- MATERIAL: COPPER & TEMPERATURE RATING: 90°C

TAG ID	REQUIRED CONDUCTOR AMPACITY				CORRECTED AMPACITY CALCULATION				DERATED CONDUCTOR AMPACITY CHECK										
3	42	X	1	=	42	X	1.25	=	52.50A	75	X	0.87	X	1	=	65.25A	52.50A	<	65.25A

**SINGLE LINE DIAGRAM**

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QC'ED BY: S.GOPAL

SCALE: AS NOTED

DATE: 5/6/2022

PAPER SIZE: 17"X11"

REV: D

E-01

**WARNING PLACARD**

**⚠ WARNING**  
**ELECTRIC SHOCK HAZARD**

TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT

LABEL LOCATION  
 AC DISCONNECT, POINT OF INTERCONNECTION  
 PER CODE: NEC 690.13

**WARNING: PHOTOVOLTAIC POWER SOURCE**

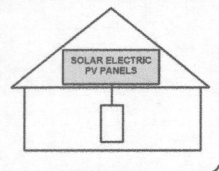
LABEL LOCATION  
 CONDUIT, COMBINER BOX  
 PER CODE: NEC690.31(G)(3)

**PHOTOVOLTAIC AC DISCONNECT**

LABEL LOCATION  
 DISCONNECT, POINT OF INTERCONNECTION  
 PER CODE: NEC690.13(B)

**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



LABEL LOCATION  
 AC DISCONNECT, DC DISCONNECT, POINT OF INTERCONNECTION  
 PER CODE: NEC690.56(C)

**INVERTER 1**

MAXIMUM SYSTEM VOLTAGE (Voc)	480	V
MAXIMUM CIRCUIT CURRENT (Isc)	45	A
MAXIMUM RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED)	15	A

LABEL LOCATION  
 DC DISCONNECT  
 PER CODE: NEC690.53

**PHOTOVOLTAIC SYSTEM AC DISCONNECT SWITCH**  
 RATED AC OPERATING CURRENT 42.00 AMPS AC  
 AC NOMINAL OPERATING VOLTAGE 240 VAC

LABEL LOCATION  
 AC DISCONNECT, POINT OF INTERCONNECTION  
 PER CODE: NEC 690.54

**⚠ WARNING**  
**TRI POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM**

LABEL LOCATION  
 POINT OF INTERCONNECTION  
 PER CODE: NEC705.12(B)(3)

**RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM**

LABEL LOCATION  
 INVERTER  
 PER CODE: NEC 690.56(C)(3)

**CAUTION: MULTIPLE SOURCES OF POWER**

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN

4044 MANOR LN, ELLICOTT CITY, MD 21042

LABEL LOCATION  
 SERVICE PANEL  
 PER CODE: NEC 705.10

**NOTES:**  
 ALL PLACARDS SHALL BE OF WEATHER PROOF CONSTRUCTION, BACKGROUND ON ALL PLACARDS SHALL BE RED WITH WHITE LETTERING U.O.N.  
 PLACARD SHALL BE MOUNTED DIRECTLY ON THE EXISTING UTILITY ELECTRICAL SERVICE.  
 FASTENERS APPROVED BY THE LOCAL JURISDICTION



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**WARNING PLACARDS**

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SPEC SHEET

SOLAR'S MOST TRUSTED



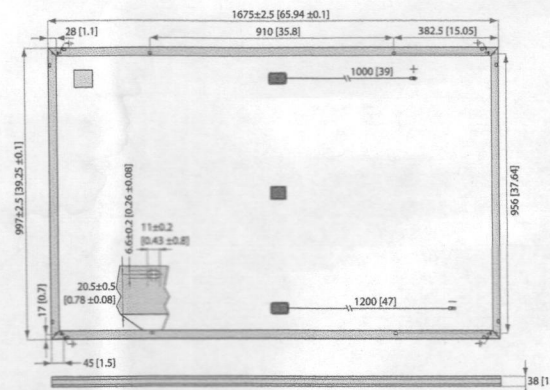
# REC TWINPEAK 2 MONO SERIES

PREMIUM SOLAR PANELS WITH SUPERIOR PERFORMANCE

REC TwinPeak 2 Mono Series solar panels feature an innovative design with high panel efficiency and power output, enabling customers to get the most out of the space used for the installation.

Combined with industry-leading product quality and the reliability of a strong and established European brand, REC TwinPeak 2 Mono panels are ideal for residential and commercial rooftops worldwide.

## REC TWINPEAK 2 MONO SERIES



Measurements in mm [in]

ELECTRICAL DATA @ STC		Product code*: RECxxxTP2M						
Nominal Power - P <sub>MAX</sub> (Wp)		300	305	310	315	320	325	330
Watt Class Sorting - (W)		-0/+5	-0/+5	-0/+5	-0/+5	-0/+5	-0/+5	-0/+5
Nominal Power Voltage - V <sub>MPP</sub> (V)		33.0	33.3	33.5	33.7	33.9	34.0	34.3
Nominal Power Current - I <sub>MPP</sub> (A)		9.11	9.17	9.26	9.36	9.45	9.56	9.62
Open Circuit Voltage - V <sub>OC</sub> (V)		38.3	38.8	39.1	39.6	40.0	40.3	40.8
Short Circuit Current - I <sub>SC</sub> (A)		10.01	10.04	10.07	10.10	10.13	10.15	10.19
Panel Efficiency (%)		18.0	18.3	18.6	18.9	19.2	19.5	19.8

Values at standard test conditions (STC: air mass AM1.5, irradiance 1000 W/m<sup>2</sup>, temperature 25°C), based on a production spread with a tolerance of P<sub>MAX</sub>, V<sub>OC</sub> & I<sub>SC</sub> ±3% within one watt class. At a low irradiance of 200 W/m<sup>2</sup> at least 95% of the STC module efficiency will be achieved. \*Where xxx indicates the nominal power class (P<sub>MAX</sub>) at STC indicated above.

ELECTRICAL DATA @ NMOT		Product code*: RECxxxTP2M						
Nominal Power - P <sub>MAX</sub> (Wp)		224	227	231	235	239	242	246
Nominal Power Voltage - V <sub>MPP</sub> (V)		30.7	31.0	31.2	31.4	31.6	31.7	31.9
Nominal Power Current - I <sub>MPP</sub> (A)		7.29	7.34	7.41	7.49	7.56	7.65	7.70
Open Circuit Voltage - V <sub>OC</sub> (V)		35.6	36.1	36.4	36.8	37.2	37.5	38.0
Short Circuit Current - I <sub>SC</sub> (A)		8.01	8.03	8.06	8.08	8.10	8.12	8.15

Nominal module operating temperature (NMOT: air mass AM1.5, irradiance 800 W/m<sup>2</sup>, temperature 20°C, windspeed 1 m/s). \*Where xxx indicates the nominal power class (P<sub>MAX</sub>) at STC indicated above.

CERTIFICATIONS



WARRANTY

	Standard	REC ProTrust	
Installed by an REC Certified Solar Professional	No	Yes	Yes
System Size	Any	≤25kW 25-500 kW	
Product Warranty (yrs)	20	25	25
Power Warranty (yrs)	25	25	25
Labor Warranty (yrs)	0	25	10
Power in Year 1	97.5%	97.5%	97.5%
Annual Degradation	0.7%	0.7%	0.7%
Power in Year 25	80.7%	80.7%	80.7%

See warranty documents for details. Some conditions apply.

19.8% EFFICIENCY  
20 YEAR PRODUCT WARRANTY  
25 YEAR LINEAR POWER OUTPUT WARRANTY

TEMPERATURE RATINGS

Nominal Module Operating Temperature:	44.6°C (±2°C)
Temperature coefficient of P <sub>MAX</sub> :	-0.37 %/°C
Temperature coefficient of V <sub>OC</sub> :	-0.28 %/°C
Temperature coefficient of I <sub>SC</sub> :	0.04 %/°C

GENERAL DATA

Cells:	120 half-cut mono-Si p-type PERC cells 6 strings of 20 cells in series
Glass:	0.13" (3.2 mm) solar glass with anti-reflective surface treatment
Back sheet:	Highly resistant polyester polyolefin construction
Frame:	Anodized aluminum
Junction box:	3-part with 3 bypass diodes, IP67 rated 12 AWG (4 mm <sup>2</sup> ) PV wire, 39" x 47" (1.0 m x 1.2 m)
Connectors:	Stäubli MC4 PV-KBT4/PV-KST4 12 AWG (4 mm <sup>2</sup> )

MAXIMUM RATINGS

Operational temperature:	-40 ... +185°F (-40 ... +85°C)
Maximum system voltage:	1000 V
Design load (+): snow	3600 Pa (75.2 lbs/ft <sup>2</sup> )*
Maximum test load (+):	5400 Pa (112.8 lbs/ft <sup>2</sup> )*
Design load (-): wind	1600 Pa (33.4 lbs/ft <sup>2</sup> )*
Maximum test load (-):	2400 Pa (50 lbs/ft <sup>2</sup> )*
Max series fuse rating:	20 A
Max reverse current:	20 A

\* Calculated using a safety factor of 1.5  
See installation manual for mounting instructions

MECHANICAL DATA

Dimensions:	65.9 x 39.25 x 1.5 (1675 x 997 x 38 mm)
Area:	17.98 ft <sup>2</sup> (1.67 m <sup>2</sup> )
Weight:	40.8 lbs (18.5 kg)

Note! Specifications subject to change without notice.



Founded in Norway in 1996, REC is a leading vertically integrated solar energy company. Through integrated manufacturing from silicon to wafers, cells, high-quality panels and extending to solar solutions, REC provides the world with a reliable source of clean energy. REC's renowned product quality is supported by the lowest warranty claims rate in the industry. REC is a BlueStar Elkem company with headquarters in Norway and operational headquarters in Singapore. REC employs around 2,000 people worldwide, producing 1.5 GW of solar panels annually.



www.recgroup.com



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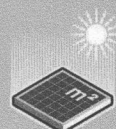
PRN NUMBER: SES-49782

MODULE SPEC SHEET

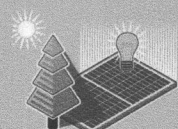
DRAFTED BY: D.XAVIER  
QC'ED BY: S.GOPAL  
PAPER SIZE: 17"X11"

SCALE: AS NOTED  
REV: D

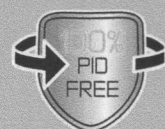
DATE: 5/6/2022  
SS-01



MORE POWER OUTPUT PER M<sup>2</sup>



IMPROVED PERFORMANCE IN SHADED CONDITIONS



100% PID FREE



REDUCES BALANCE OF SYSTEM COSTS



ELIGIBLE FOR