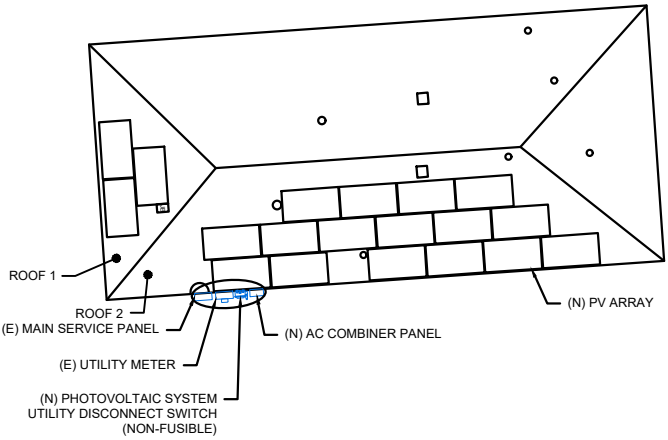
CAUTION

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

N



5831 PROVIDENCE PL,NEW ORLEANS, LA 70126

NEW PHOTOVOLTAIC SYSTEM 7.315 KW DC
5831 PROVIDENCE PL,NEW ORLEANS, LA 70126

GENERAL NOTES

1.1.1 PROJECT NOTES:

1.1.2 THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC) ARTICLE 690, ALL MANUFACTURERS'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES.
1.1.3 THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION.
1.1.4 GROUND FAULT DETECTION AND INTERRUPTION (GFDI) DEVICE IS INTEGRATED WITH THE MICROINVERTER IN ACCORDANCE WITH NEC 690.41(B)
1.1.5 ALL PV SYSTEM COMPONENTS; MODULES, UTILITY-INTERACTIVE INVERTERS AND SOURCE CIRCUIT COMBINER BOXES ARE IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY NEC 690.4: PV MODULES: UL1703, IEC61730, AND IEC61215, AND NFPA 70 CLASS C FIRE INVERTERS: UL 1741 CERTIFIED, IEEE 1547, 929, 519 COMBINER BOX(ES): UL 1703 OR UL 1741 ACCESSORY
1.1.6 MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC. IF UNAVAILABLE, MAX DC VOLTAGE CALCULATED ACCORDING TO NEC 690.7.
1.1.7 ALL INVERTERS, PHOTOVOLTAIC MODULES,PHOTOVOLTAIC PANELS, AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATIONPER 690.4 (D). SHALL BE INSTALLED ACCORDING TO ANY INSTRUCTIONS FROM LISTING OR LABELING [NEC 110.3].
1.1.8 ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.

1.2.1 SCOPE OF WORK:
1.2.2 PRIME CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE GRID-TIED PHOTOVOLTAIC SYSTEM RETROFIT. PRIME CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTING EXISTING ONSITE REQUIREMENTS TO DESIGN, SPECIFY, AND INSTALL THE EXTERIOR ROOF-MOUNTED PORTION OF THE PHOTOVOLTAIC SYSTEMS DETAILED IN THIS DOCUMENT

1.3.1 WORK INCLUDES:
1.3.2 PV RACKING SYSTEM INSTALLATION - IRONRIDGE XR10 RAIL
1.3.3 PV MODULE AND INVERTER INSTALLATION - MSE385SX5R (385W) MISSION SOLAR MODULES / ENPHASE IQ8PLUS-72-2-US MICROINVERTERS
1.3.4 PV EQUIPMENT ROOF MOUNT
1.3.5 PV SYSTEM WIRING TO A ROOF-MOUNTED JUNCTION BOX
1.3.6 PV LOAD CENTERS (IF INCLUDED)
1.3.7 PV METERING/MONITORING (IF INCLUDED)
1.3.8 PV DISCONNECTS
1.3.9 PV GROUNDING ELECTRODE & BONDING TO (E) GEC
1.3.10 PV FINAL COMMISSIONING
1.3.11 (E) ELECTRICAL EQUIPMENT RETROFIT FOR PV
1.3.12 SIGNAGE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE

PROJECT INFORMATION

OWNER
NAME: THERESA WALLS

SCOPE OF WORK
SYSTEM SIZE: DC SIZE :19 X 385W= 7.315 kW DC
AC SIZE :19 X 290W= 5.510 kW AC
(19) MSE385SX5R (385W) MISSION SOLAR MODULES
(19) ENPHASE IQ8PLUS-72-2-US MICROINVERTERS
(1) ENPHASE IQ COMBINER PANEL

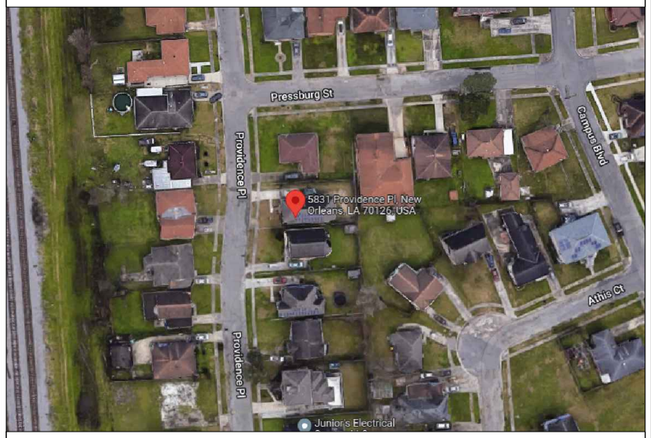
ATTACHMENT TYPE: ROOF MOUNT
MSP UPGRADE : NO

AUTHORITIES HAVING JURISDICTION
BUILDING: ORLEANS
ZONING: ORLEANS
APN NUMBER. : 41086113

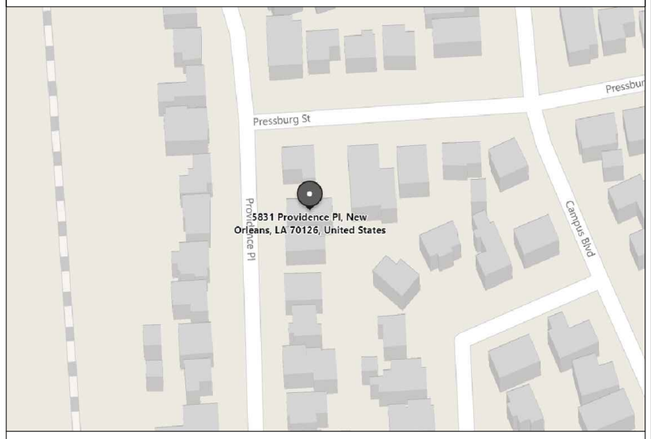
DESIGN SPECIFICATION
OCCUPANCY: II
CONSTRUCTION: SFR
ZONING: RESIDENTIAL
GROUND SNOW LOAD: 0 psf
WIND EXPOSURE: B
WIND SPEED: 142 mph

APPLICABLE CODES & STANDARDS
BUILDING: IBC 2015 IRC 2015
ELECTRICAL: NEC 2014
FIRE: IFC 2015

SATELLITE VIEW



VICINITY MAP



SHEET INDEX

PV- 0	COVER PAGE
PV - 1	SITE PLAN
PV - 2	ELECTRICAL PLAN
PV - 3	ATTACHMENT PLAN
PV - 4	STANDOFF DETAILS
PV - 5	ONE LINE DIAGRAM
PV - 6	THREE LINE DIAGRAM
PV - 7	ELECTRICAL CALCULATIONS
PV - 8	WARNING LABELS

ALTERNATIVE SOLAR
1438 PAT BOOKER RD,
UNIVERSAL CITY,TEXAS
T:(210)316-2981

PROJECT NAME & ADDRESS
THERESA WALLS
5831 PROVIDENCE PL,NEW ORLEANS, LA 70126

STATE OF LOUISIANA
EDWARD R. ZABALA
License No. 37955
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

SYSTEM SIZE
7.315 KW DC
5.510 KW AC

REVISIONS

REV	DESCRIPTION	DATE

SHEET TITLE
COVER PAGE

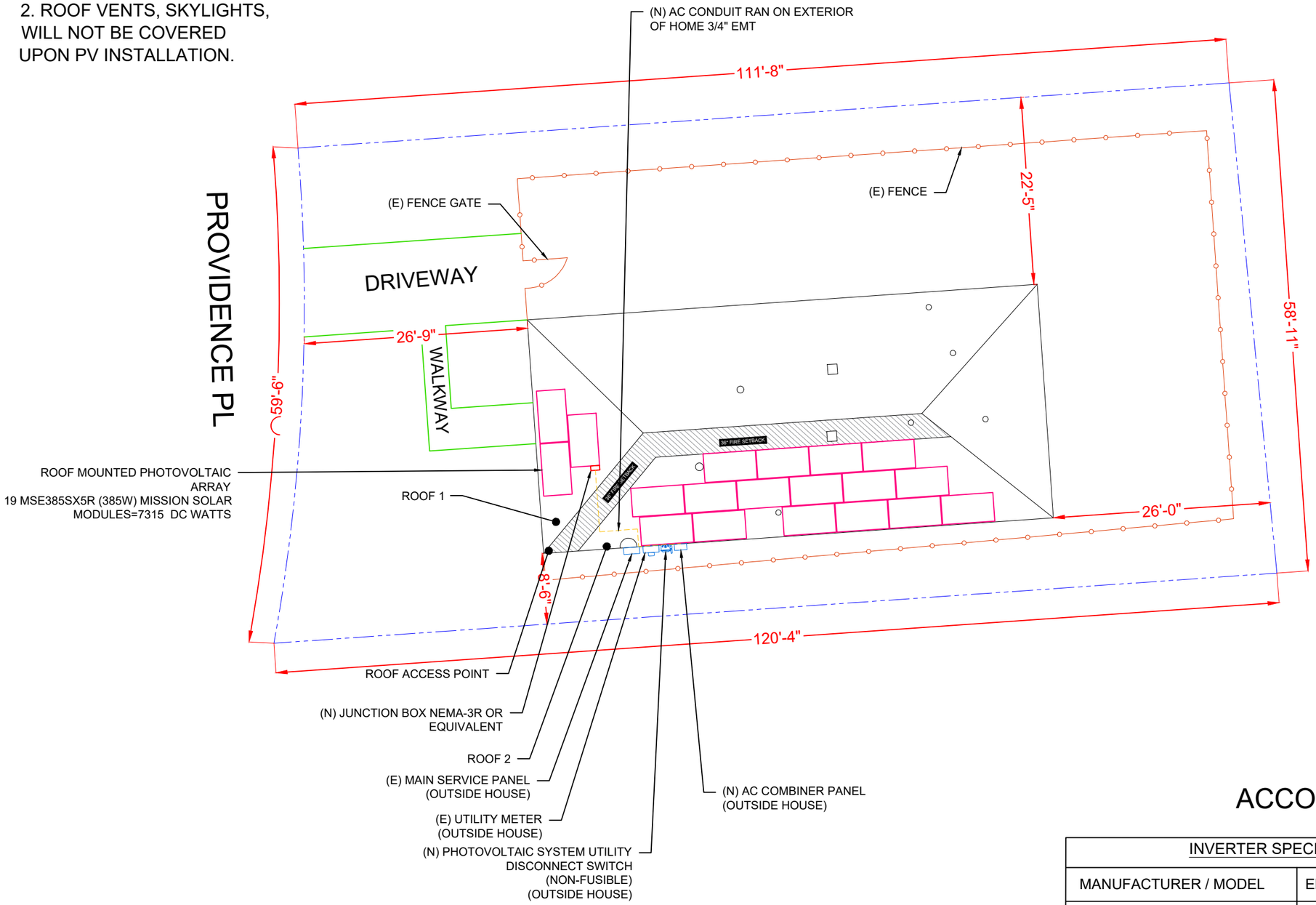
DRAWN DATE	10/29/2022
DRAWN BY	OAK
REVIEWED BY	-

SHEET NUMBER
PV- 0

NOTES:

1. ALL CONSTRUCTION / INSTALLATION IS TO COMPLY WITH THE FOLLOWING: ALL DIMENSIONS ARE APPROXIMATE.

2. ROOF VENTS, SKYLIGHTS, WILL NOT BE COVERED UPON PV INSTALLATION.



ACCOUNT NO: 114367402

INVERTER SPECIFICATIONS	
MANUFACTURER / MODEL	ENPHASE IQ8PLUS-72-2-US MICROINVERTERS
MAXIMUM OUPUT POWER	290 W
NOMINAL VOLTAGE	240 V
NOMINAL OUTPUT CURRENT	1.21 A
INVERTER QUANTITY	19 NOS.

N

ALTERNATIVE SOLAR

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SITE PLAN

DRAWN DATE	10/29/2022
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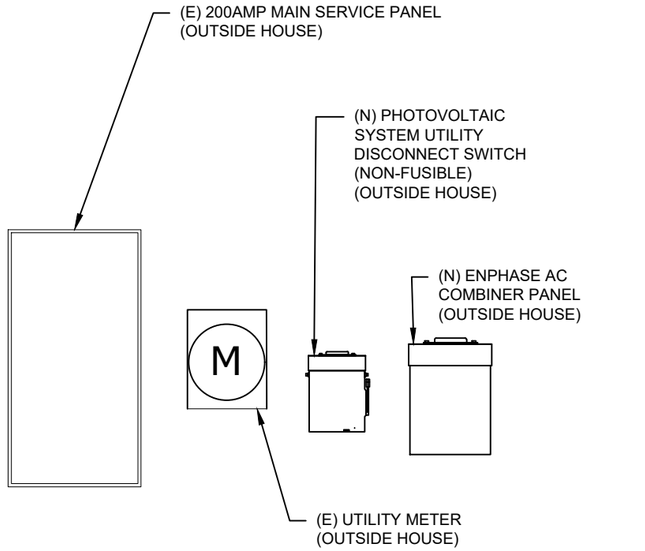
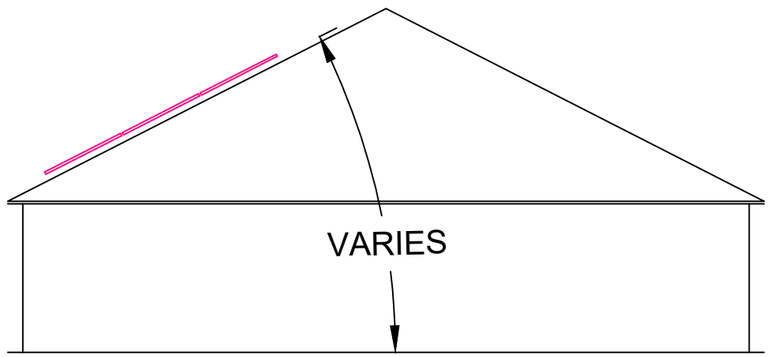
SHEET NUMBER

PV - 1



EQUIPMENT ELEVATION

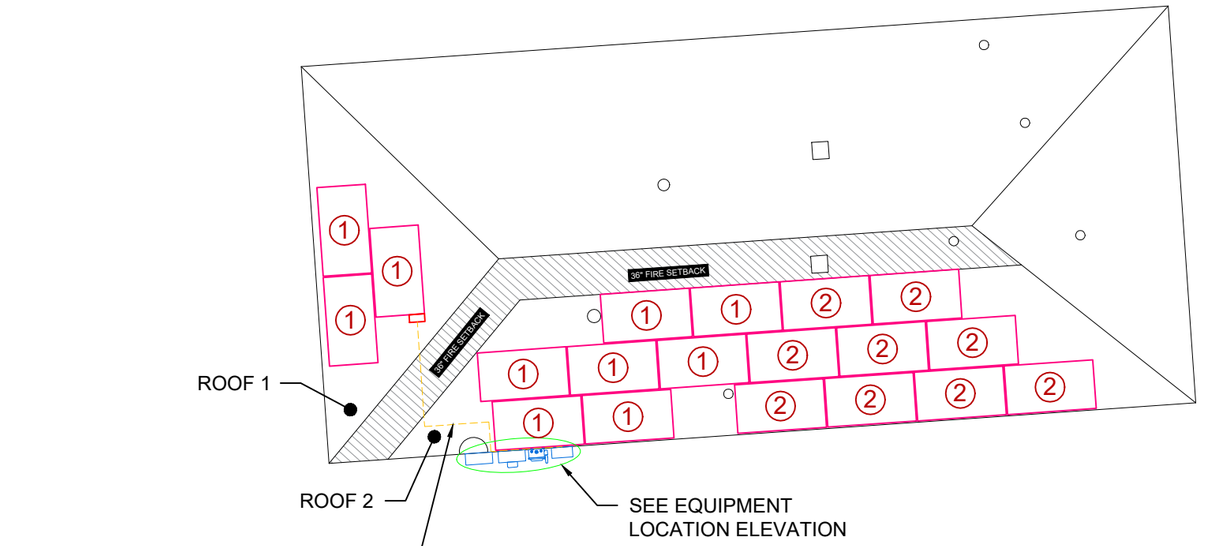


SCALE:3/32" = 1'-0"

①STRING OF 10 MODULES
②STRING OF 9 MODULES

ROOF SECTION(S)

ROOF 1	TILT - 20° AZIMUTH - 266° MODULE - 3
ROOF 2	TILT - 20° AZIMUTH - 176° MODULE - 16



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5.510 KW AC

REVISIONS	DATE	DESCRIPTION	REV

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ELECTRICAL PLAN

DRAWN DATE	10/29/2022
DRAWN BY	OAK
REVIEWED BY	-

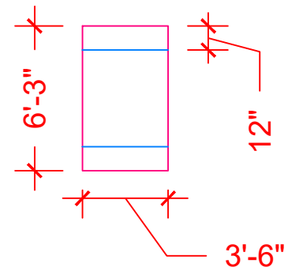
SHEET NUMBER

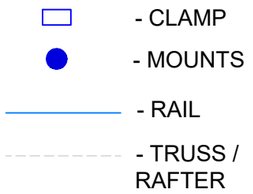
PV-2

MEETS OR EXCEEDS IBC IRC CONSTRUCTION STANDARDS
LOAD CALCULATIONS

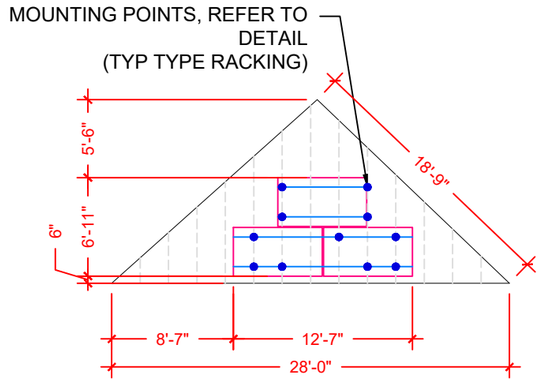
MODULE TYPE, DIMENSIONS & WEIGHT:

NUMBER OF PANELS IN ARRAY = 19 MODULES
MODULE TYPE = MSE385SX5R (385W) MISSION SOLAR MODULES
NUMBER OF CONNECTIONS TO ROOF =55
WEIGHT OF INDIVIDUAL PANEL = 49 LBS / 22 KG.
MOUNTING SYSTEM WEIGHT : 1.5 LBS. PER MODULE
TOTAL WEIGHT OF ARRAY: 931.0 LBS.
WEIGHT AT EACH CONNECTION : 931.0 LBS / 55 = 16.93 LBS
SOLAR PANEL AREA = 75.07"X 41.10" =21.43 SF
TOTAL ARRAY AREA = 19 X 21.43 = 407.17SF
DISTRIBUTED LOAD = 931.0/407.17 = 2.29 PSF

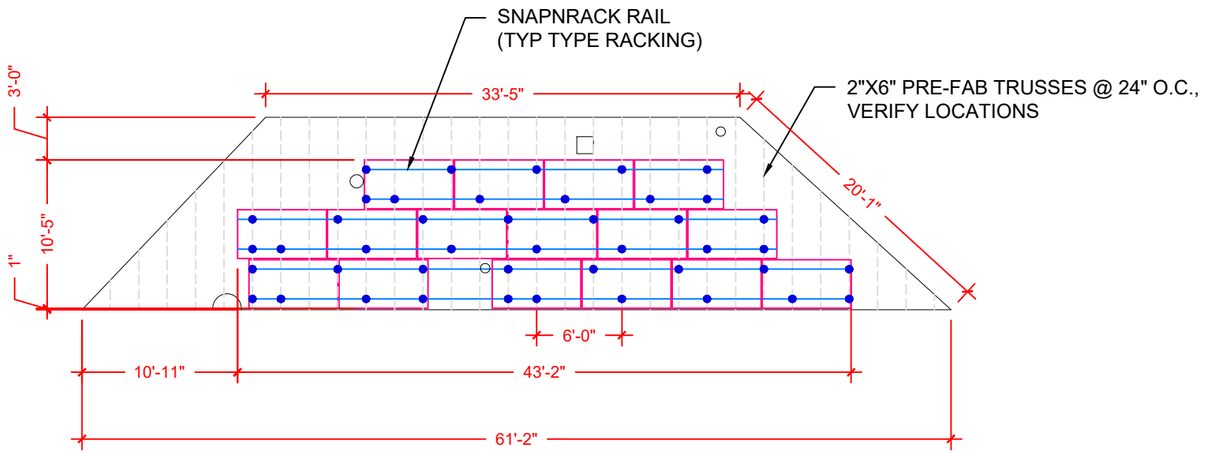




ARRAY 1
TILT- 20 DEG
AZIMUTH - 266 DEG
MATERIAL- COMPOSITE SHINGLE



ARRAY 2
TILT- 20 DEG
AZIMUTH - 176 DEG
MATERIAL- COMPOSITE SHINGLE



1 | ATTACHMENT PLAN
SCALE:3/32" = 1'-0"

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SYSTEM SIZE
7.315 KW DC
5.510 KW AC

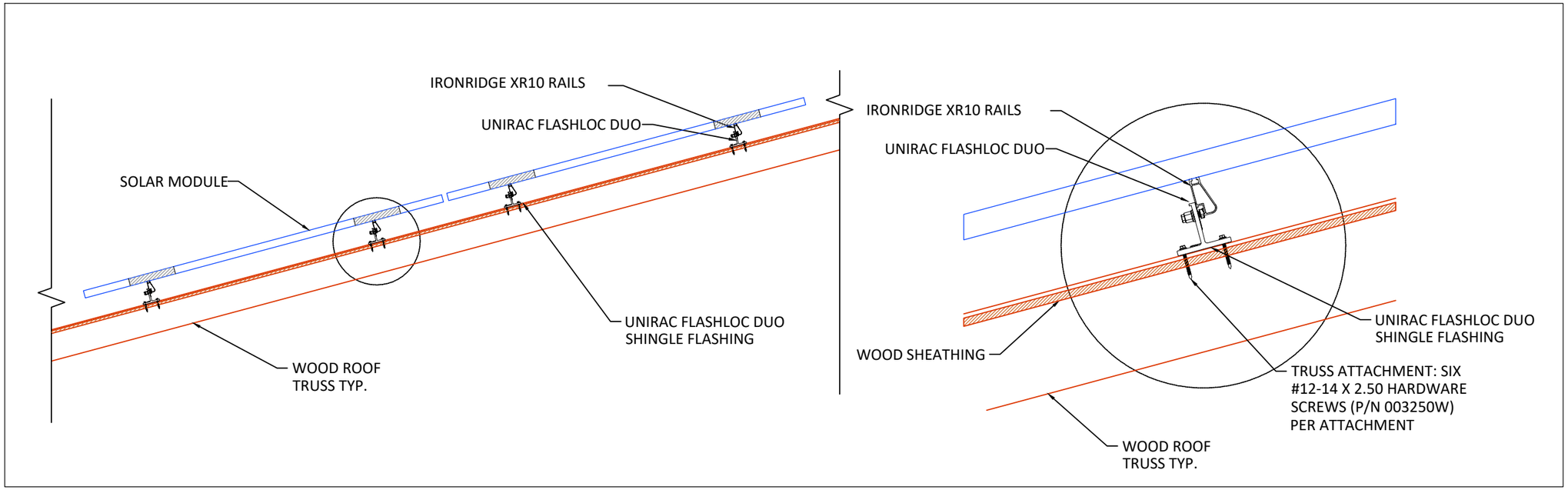
REVISIONS

REV	DESCRIPTION	DATE

SHEET TITLE
ATTACHMENT PLAN

DRAWN DATE	10/29/2022
DRAWN BY	OAK
REVIEWED BY	-

SHEET NUMBER
PV - 3



LAG BOLT/SCREWS OF A RELATIVELY SMALL, 5/16 INCH DIAMETER BY 3 INCHES LONG CAN BE EMBEDDED IN THE TOP, 2"X6" CHORD OF A SIMPLE SPAN MEMBER TRUSS A MINIMUM PENETRATION OF 2-1/2" INCHES IS REQUIRED (TYP TYPE RACKING)

1 | STAND OFF DETAILS

SCALE:3/8" = 1'-0"

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REVISIONS	DATE	DESCRIPTION	REV

SHEET TITLE

STANDOFF DETAILS

DRAWN DATE	10/29/2022
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REVIEWED BY	-

SHEET NUMBER

PV-4

"ALL EXPOSED PV ROOFTOP CONDUCTORS THAT ARE NOT LOCATED UNDER THE ARRAY MODULES, SHALL INCLUDE LISTED JUNCTION BOXES AT BOTH ENDS OF THE RACEWAY TO TRANSITION FROM EXPOSED CONDUCTORS TO THE LISTED RACEWAYS."

PHOTOVOLTAIC INSTALLATION ELECTRICAL DIAGRAM

RATED 7,315 DC WATTS UNDER (STC)

PV MODULES AND MICROINVERTER :

(19) MSE385SX5R (385W) MISSION SOLAR MODULES

(19) ENPHASE IQ8PLUS-72-2-US MICROINVERTERS

(1) BRANCH CIRCUIT OF 10 MODULES

(1) BRANCH CIRCUIT OF 9 MODULES

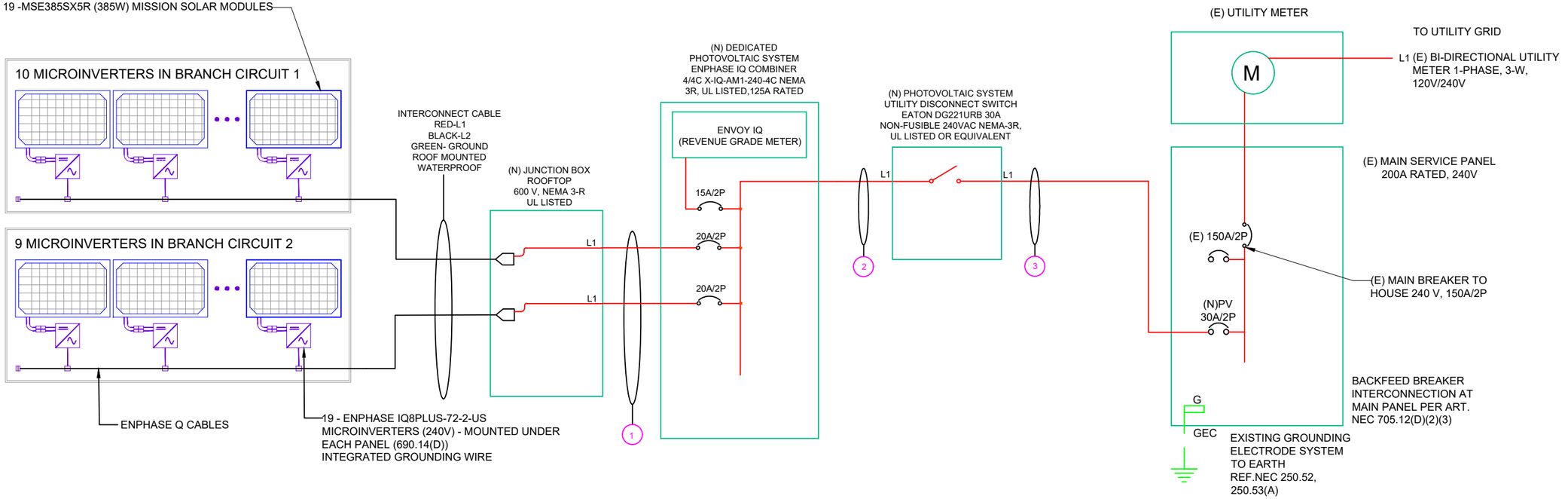
WIRE /CONDUIT SCHEDULE	
TAG	DESCRIPTION
1	(4)#10 THWN-2 CU & (1)#10 THWN-2 CU GROUND / 3/4" EMT CONDUIT
2	(3)#10 THWN-2 CU & (1)#10 THWN-2 CU GROUND / 3/4" EMT CONDUIT
3	(3)#10 THWN-2 CU & (1)#10 THWN-2 CU GROUND / 3/4" EMT CONDUIT

ADDITIONAL NOTES:

MARKING IS REQUIRED ON ALL INTERIOR AND EXTERIOR DC CONDUIT, RACEWAYS, ENCLOSURES, CABLE ASSEMBLIES, AND JUNCTION BOXES TO ALERT THE FIRE SERVICE TO AVOID CUTTING THEM.

MARKING SHOULD BE PLACED ON ALL INTERIOR AND EXTERIOR DC CONDUIT, RACEWAYS, ENCLOSURES, AND CABLE ASSEMBLIES, AT A MINIMUM OF EVERY 10' FEET, AT TURNS AND ABOVE AND OR BELOW PENETRATIONS AND ALL DC COMBINER AND JUNCTION BOXES.

1A (4)#10 THWN-2 CU & (1)#10 THWN-2



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SYSTEM SIZE

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5.510 KW AC

REVISIONS

REV	DESCRIPTION	DATE

SHEET TITLE

ONE LINE DIAGRAM

DRAWN DATE	10/29/2022
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SHEET NUMBER

PV-5

"ALL EXPOSED PV ROOFTOP CONDUCTORS THAT ARE NOT LOCATED UNDER THE ARRAY MODULES, SHALL INCLUDE LISTED JUNCTION BOXES AT BOTH ENDS OF THE RACEWAY TO TRANSITION FROM EXPOSED CONDUCTORS TO THE LISTED RACEWAYS."

PHOTOVOLTAIC INSTALLATION ELECTRICAL DIAGRAM

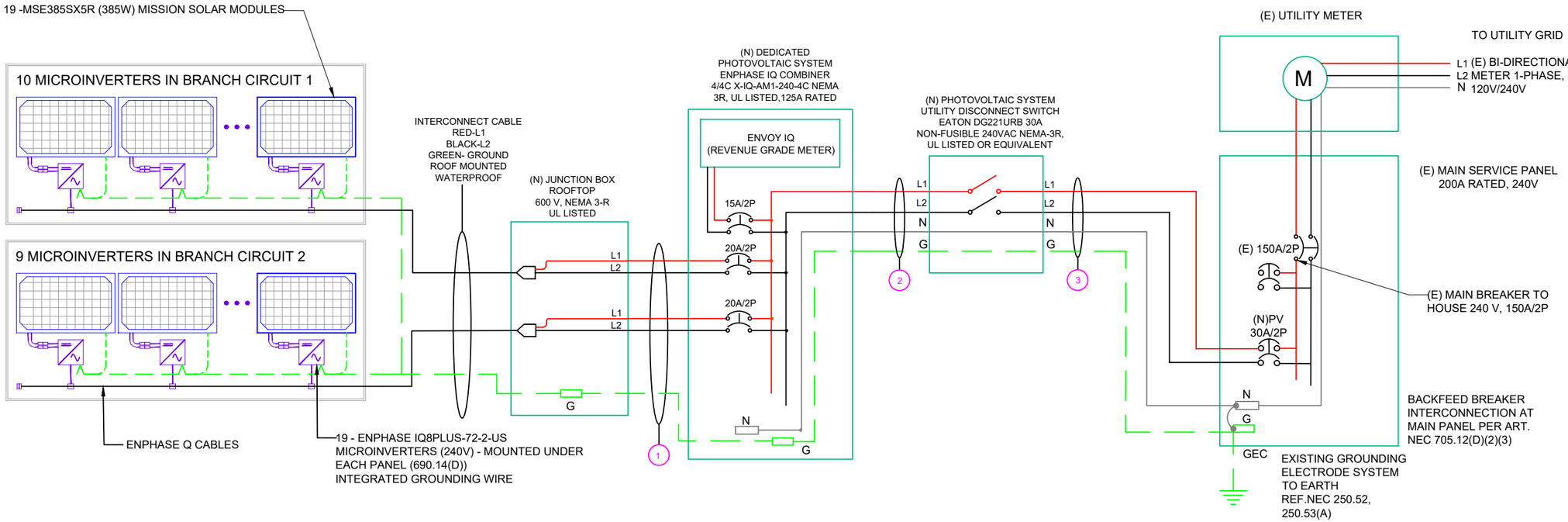
RATED 7,315 DC WATTS UNDER (STC)

PV MODULES AND MICROINVERTER :
(19) MSE385SX5R (385W) MISSION SOLAR MODULES

(19) ENPHASE IQ8PLUS-72-2-US MICROINVERTERS
(1) BRANCH CIRCUIT OF 10 MODULES
(1) BRANCH CIRCUIT OF 9 MODULES

WIRE /CONDUIT SCHEDULE	
TAG	DESCRIPTION
1	(4)#10 THWN-2 CU & (1)#10 THWN-2 CU GROUND / 3/4" EMT CONDUIT
2	(3)#10 THWN-2 CU & (1)#10 THWN-2 CU GROUND / 3/4" EMT CONDUIT
3	(3)#10 THWN-2 CU & (1)#10 THWN-2 CU GROUND / 3/4" EMT CONDUIT

ADDITIONAL NOTES:
MARKING IS REQUIRED ON ALL INTERIOR AND EXTERIOR DC CONDUIT, RACEWAYS, ENCLOSURES, CABLE ASSEMBLIES, AND JUNCTION BOXES TO ALERT THE FIRE SERVICE TO AVOID CUTTING THEM. MARKING SHOULD BE PLACED ON ALL INTERIOR AND EXTERIOR DC CONDUIT, RACEWAYS, ENCLOSURES, AND CABLE ASSEMBLIES, AT A MINIMUM OF EVERY 10' FEET, AT TURNS AND ABOVE AND OR BELOW PENETRATIONS AND ALL DC COMBINER AND JUNCTION BOXES.



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REV	DESCRIPTION	DATE

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DRAWN DATE	10/29/2022
DRAWN BY	OAK
REVIEWED BY	-

SHEET NUMBER
PV-6

SOLAR MODULE SPECIFICATIONS	
MANUFACTURER / MODEL	MSE385SX5R (385W) MISSION SOLAR MODULE
VMP	36.93 V
IMP	10.42 A
VOC	45.03 V
ISC	10.97A
DIMENSION	75.07"L x 41.10"W x 1.57"D (In Inch)

INVERTER SPECIFICATIONS	
MANUFACTURER / MODEL	ENPHASE IQ8PLUS-72-2-USMICROINVERTERS
MAXIMUM OUPUT POWER	290 W
NOMINAL VOLTAGE	240 V
NOMINAL OUTPUT CURRENT	1.21 A

AMBIENT TEMPERATURE SPECS	
RECORD LOW TEMP	-1°
AMBIENT TEMP (HIGH TEMP 2%)	34°
CONDUIT HEIGHT	0.5"
CONDUCTOR TEMPERATURE RATE	90°

PERCENT OF VALUES	NUMBER OF CURRENT CARRYING CONDUCTORS IN EMT
.80	4-6
.70	7-9
.50	10-20

MICRO INVERTER CALCULATIONS:

1. CURRENT CARRYING CONDUCTOR

(A) BEFORE IQ COMBINER PANEL

AMBIENT TEMPERATURE - (34)°C ...NEC 310.15(B)(3)(c)
TEMPERATURE DERATE FACTOR - 0.96 ...NEC 310.15(B)(2)(a)
GROUPING FACTOR - 0.8..NEC 310.15(B)(3)(a)

CONDUCTOR AMPACITY
= (INVERTER O/P CURRENT) x 1.25 / A.T.F / G.F ...NEC 690.8(B)
= [(10 x 1.21) x 1.25] / [0.96 / 0.8]
= 19.69 A
SELECTED CONDUCTOR - #10 THWN-2 ...NEC 310.15(B)(16)

(B) AFTER IQ COMBINER PANEL

TEMPERATURE DERATE FACTOR - 0.96
GROUPING FACTOR - 1

CONDUCTOR AMPACITY
= (TOTAL INV O/P CURRENT) x 1.25 / 0.96 / 1 ...NEC 690.8(B)
= [(19 x 1.21) x 1.25] / 0.96 = 29.93 A
SELECTED CONDUCTOR - #10 THWN-2 ...NEC 310.15(B)(16)

2. PV OVER CURRENT PROTECTION ...NEC 690.9(B)

= TOTAL INVERTER O/P CURRENT x 1.25
= (19 x 1.21) x 1.25 = 28.74 A
SELECTED OCPD = 30 A ...NEC 240.6

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SYSTEM SIZE
7.315 KW DC
5.510 KW AC

REVISIONS	DATE				
	DESCRIPTION				
	REV				

SHEET TITLE
ELECTRICAL CALCULATIONS

DRAWN DATE	10/29/2022
DRAWN BY	OAK
REVIEWED BY	-

SHEET NUMBER
PV-7

ALL LABELS TO BE ENGRAVED AND MECHANICALLY BONDED UNLESS OTHERWISE STATED

LABEL LOCATION : INVERTER

WARNING

ELECTRICAL SHOCK HAZARD
TERMINALS ON BOTH LINE AND
LOAD SIDES MAY BE ENERGIZED IN
THE OFF POSITION

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

WARNING

THE DISCONNECTION OF THE
GROUNDED CONDUCTOR(S)
MAY RESULT IN OVERVOLTAGE
ON THE EQUIPMENT

LABEL LOCATION : DISCONNECT

UTILITY PHOTOVOLTAIC
AC DISCONNECT

1"

2 1/2"

WARNING

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

LABEL LOCATION : PV BREAKER

WARNING
INVERTER OUTPUT CONNECTION
DO NOT RELOCATE THIS
OVERCURRENT DEVICE

PHOTOVOLTAIC POWER SOURCE
BREAKERS ARE BACKFEEDING

LABEL LOCATION : METER

1"

PHOTOVOLTAIC SYSTEM
DEDICATED KWH METER

3 1/2"

LABEL LOCATION : MAIN PANEL

WARNING

ELECTRIC SHOCK HAZARD

-DO NOT TOUCH LIVE TERMINALS

TERMINALS ON BOTH LINE AND LOAD SIDE
MAY BE ENERGIZED IN THE OFF POSITION

RAPID SHUTDOWN SWITCH
FOR SOLAR PV SYSTEM

WARNING

TURN OFF PHOTOVOLTAIC AC
DISCONNECT PRIOR TO WORKING
INSIDE PANEL

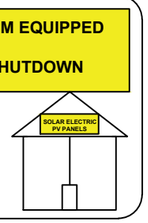
SOLAR PV SYSTEM EQUIPPED

WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN

SWITCH TO THE "OFF"
POSITION TO SHUTDOWN
PV SYSTEM AND REDUCE
SHOCK HAZARD

IN ARRAY



WARNING

A GENERATION SOURCE IS CONNECTED TO THE LOAD SIDE
OF THE MAIN SERVICE DISCONNECT. FOLLOW PROPER
LOCK-OUT/TAG-OUT PROCEDURES TO ENSURE THE
PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT SWITCH IS
OPEN PRIOR TO PERFORMING WORK ON THIS DEVICE

LABEL LOCATION : DC CONDUIT STICKER

INTERACTIVE PHOTOVOLTAIC POWER
FLOWING THROUGH THIS PANEL

AC OPERATING CURRENT 22.99 AAC
AC OPERATING VOLTAGE 240 VAC

1 1/2"

WARNING: PHOTOVOLTAIC
POWER SOURCE

CAUTION :
ALTERNATE POWER
SUPPLY AC SYSTEM
DISCONNECT

CAUTION :
POWER TO THIS
SERVICE IS ALSO
SUPPLIED FROM
ON-SITE SOLAR/WIND
GENERATION

ALTERNATIVE SOLAR

1438 PAT BOOKER RD,
UNIVERSAL CITY,TEXAS
T:(210)316-2981

PROJECT NAME & ADDRESS

THERESA WALLS

5831 PROVIDENCE PL,NEW
ORLEANS, LA 70126

STATE OF LOUISIANA
EDWARD R. ZABALA
License No. 37955
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

SYSTEM SIZE

7.315 KW DC
5.510 KW AC

REVISIONS	DATE	DESCRIPTION	REV

SHEET TITLE
WARNING
LABELS

DRAWN DATE	10/29/2022
DRAWN BY	OAK
REVIEWED BY	-

SHEET NUMBER
PV-8

MSE PERC 66

MISSION SOLAR ENERGY

385W
Class leading power output

Positive Power Tolerance
-0 to +3%

FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2% in year one and 0.58% annually from years two to 30 with 84.08% capacity guaranteed in year 25.
For more information, visit www.missionsolar.com/warranty

CERTIFICATIONS

CEC

UL 61730 / IEC 61215 / IEC 61730 / IEC 61701

If you have questions or concerns about certification of our products in your area, please contact Mission Solar Energy.

True American Quality
True American Brand

Mission Solar Energy is headquartered in San Antonio, Texas where we manufacture our modules. We produce American, high-quality solar modules ensuring the highest-in-class power output and best-in-class reliability. Our product line is tailored for residential, commercial and utility applications. Every Mission Solar Energy solar module is certified and surpasses industry standard regulations, proving excellent performance over the long term.

Demand the best. Demand Mission Solar Energy.

Certified Reliability
- Tested to UL 61730 & IEC Standards
- PID resistant
- Resistance to salt mist corrosion

Advanced Technology
- 6 Busbar
- Passivated Emitter Rear Contact
- Ideal for all applications

Extreme Weather Resilience
- Up to 5,400 Pa front load & 3,600 Pa back load
- Tested load to UL 61730
- 40 mm frame

BAA Compliant for Government Projects
- Buy American Act
- American Recovery & Reinvestment Act

MODULES ASSEMBLED DESIGNED & ENGINEERED IN THE USA OF U.S. AND NON-U.S. PARTS

FRAME-TO-FRAME 25 YEAR WARRANTY

www.missionsolar.com | info@missionsolar.com