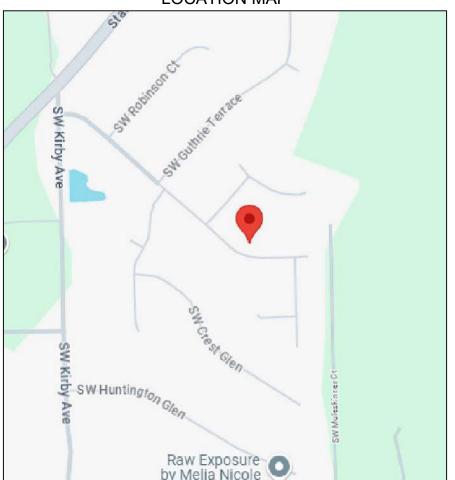
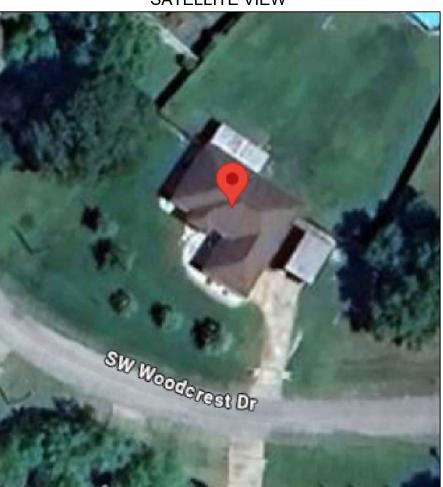
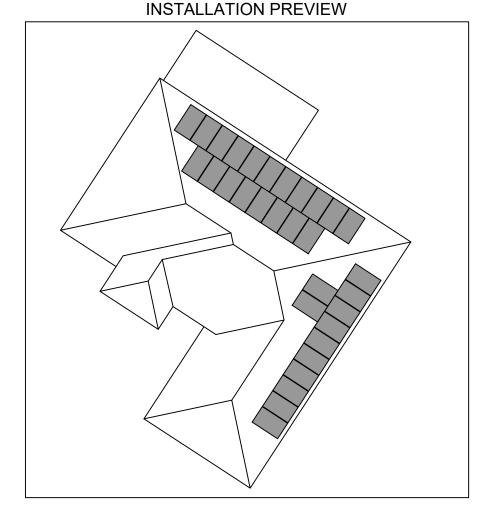
### LOCATION MAP



## SATELLITE VIEW





# **GENERAL NOTES:**

- (1) The contractor shall verify all existing conditions which will affect the installation of all new work. If discrepancies are discovered, engineer must be notified before proceeding with any modification to the approved documents.
- (2) Installer shall assume full responsibility and liability for compliance with regulations per federal OSHA and local regulations pertaining to work practices, protection of workers and visitors to the site.
- 3) All construction shall comply with all state, county, and local codes on their latest edition.
- (4) All materials shall be in new and unused condition.
- (5) Inverter/s must be listed to UL-1741 "Utility interactive"
- (6) Manufacturer's material equipment, etc. Shall be installed per manufacturer's recommendations and instructions.
- (7) The contractor is responsible for the adequate bracing of all structural and nonstructural components during construction.
- (8) Any battery system installed in a location where they are subject to vehicle damage needs to be protected by approved barriers (safety bollards).
- (9) Do not scale drawings, written dimensions take precedence over drawings. If scale or written dimensions do not exist, which are necessary for construction, the contractor must contact the engineer to obtain the latest and most correct documents.
- (10) Information for the basic layout of this drawings was based on existing field dimensions, contractor must verify in field the actual conditions and notify engineer of any discrepancies.
- (11) The contractor is solely responsible for the means and methods of construction and the safety of construction workers.
- (12) All work shall be performed by contractors possessing valid certifications of competency and occupational licenses recognized and accepted by the local government having jurisdiction or by owner.
- (13) To the best of my knowledge, the plans and specifications submitted herewith comply to all existing interpretations and provisions of the applicable building codes at the time of the plans perpetration. No warranty either expressed or implied is herewith given.
- (14) Contractor / owner shall verify all dimensions related to any part of construction prior to beginning work or ordering fabricated materials required for construction.
- (15) Solar contractor is responsible for all installations. Engineer retained on the project is responsible for design only. In case of leans, uplifts, wind damage, incorrect installation or otherwise; Engineer is not responsible for any and all damages to the owner's property.
- (16) Solar contractor will be responsible of sealing the penetrations to the roof substrate. Engineer is not responsible of any property damage caused by water leaking.
- (17) Installation by solar contractor shall be in compliance with Florida Fire Prevention Code (FFPC) 8th Edition, NFPA 1 & NFPA 101 (2021 edition).
- (18) Per NFPA 1 (11.12.1) Photovoltaic systems shall be in accordance with Section 11.12 and NFPA 70.
- (19) This permit is only for solar panels as shown herein. All other site improvements or structures shown in the approved plans, including portions of the structure where the solar panels are being installed is not a part of the scope of this permit and this permit does not evidence the legal or permitted status of the same. Approval of this part shall not be construed as evidence that any portion of the structure(s)/roof, except for the solar panels permitted by this permit (but including any portion of the structure below) is legally permitted or legally permitted by this permit.
- (20) The contractor is obliged to furnish the field inspector with the latest photographs that illustrate the Fire pathway clearance on the roof. These images should distinctly demonstrate compliance with the relevant code regulations, inclusive of appropriate measurements.
- (21) The contractor shall provide onsite an electric meter [amp-multimeter] to demonstrate with the field inspector that the rapid shutdown functions properly.

# SHEET INDEX

- PV 1 COVER PAGE
- PV 2 STRUCTURAL PLAN
- PV 3 ELECTRICAL DIAGRAM & WARNING LABELS
- PV 4 DATA SHEETS

# County Building Distribution Plans Reviewed for Code Compliance

### SCOPE OF WORK

SYSTEM SIZE: DC SIZE: 12.245 KW DC AC SIZE: 11.520 KW AC

(N) (31) MISSION SOLAR MSE395SX9R (395W) PV MODULES (N) (8) HOYMILES HMS-1600-4T-NA MICROINVERTERS

(N) (1) 125A LOAD CENTER

UNIRAC STRONGHOLD BUTYL MOUNTS WITH UNIRAC RAILS

### **DESIGN SPECIFICATION**

OCCUPANCY: II
CONSTRUCTION: SF

ZONING: RESIDENTIAL GROUND SNOW LOAD: 4 psf

GROUND SNOW LOAD: 4 psf
WIND EXPOSURE: B
WIND SPEED: 119 mph

### **AUTHORITIES HAVING JURISDICTION**

BUILDING: COLUMBIA COUNTY ZONING: COLUMBIA COUNTY

UTILITY: CLAY ELECTRIC COOPERATIVE.INC

### APPLICABLE CODES & STANDARDS

FLORIDA RESIDENTIAL CODE, 8TH EDITION 2023 (FRC)
FLORIDA BUILDING CODE, 8TH EDITION 2023 (FBC)
FLORIDA FIRE PREVENTION CODE, 8TH EDITION 2023 (FFPC)
FLORIDA EXISTING BUILDING CODE, 8TH EDITION 2023 (FBC EX)
NATIONAL ELECTRICAL CODE, NEC 2023 CODE BOOK, NFPA 70

AMERICAN SOLAR INSTALLATION COMPANY 3241 NW 38th St. Miami, FL 33142

JOSHUA AFTON 383 SW WOODCREST DR, LAKE CITY, FL 32024

AHJ STAMP

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Date: 2025.03.22 07:53:06-04'00'

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DESCRIPTION DATE (N) 12.245 KW [N) 11.520 KW A

SHEET TITLE
COVER PAGE

 DRAWN DATE
 03/21/2025

 DRAWN BY
 JEROME JAPAL

 REVIEWED BY

SHEET TITLE

PV - 1

- 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.
- 3. AC DISCONNECT IS LOCATED WITHIN 10FT FROM THE UTILITY METER.

SITE PLAN

SCALE: 1/16" = 1'-0"

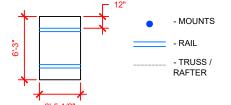
. LOCATION OF JUNCTION BOX(ES), AC ISCONNECT(S), AC COMBINER PANEL(S), AND OTHER ELECTRICAL EQUIPMENT RELEVANT TO PV INSTALLATION SUBJECT TO CHANGE BASED ON SITE CONDITIONS.

2. SETBACKS AT RIDGES CAN BE REDUCED TO 18 INCHES IF TOTAL PV AREA IS WITHIN 33% OF TOTAL ROOF AREA IN COMPLIANCE WITH IBC

TOTAL ROOF AREA = 2472.8318 SQFT TOTAL PV AREA = 31(75.08" X 41.5")/(144 IN^2) = 670.84 SQFT

(670.84 SQFT/2472.8318 SQFT)100 = 27.13% TOTAL PV AREA POPULATES 27.13% OF TOTAL ROOF AREA

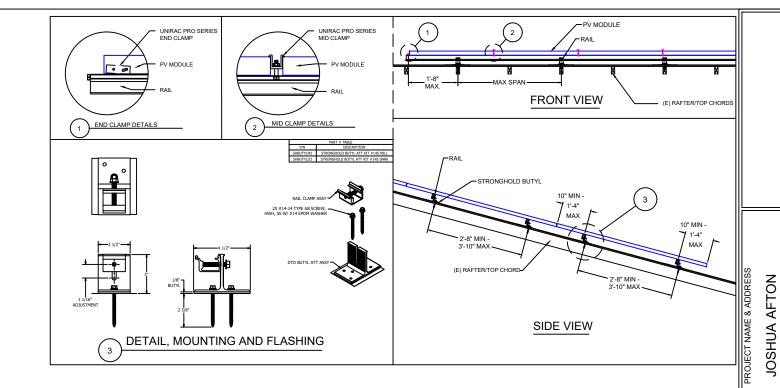
TRUSS/RAFTERS LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS MAY DIFFER AND CONTRACTOR MAY NEED TO ADJUST MOUNT LOCATIONS. IN NO CASE SHALL THE MOUNT SPACING EXCEED "MAX. MOUNT SPACING"



(N) ROOF MOUNTED PHOTOVOLTAIC ARRAY

**ROOF ACCESS POINT** 

ROOF SECTION(S)					
MODULE TILT AZIMUTH					
ROOF 1 19 25° 33°					
ROOF 2 12 25° 147°					



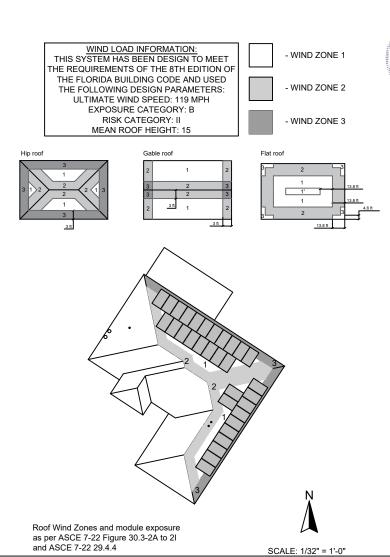
# 31 MISSION SOLAR MSE395SX9R (395W) PV MODULES (N) NEMA 3R JUNCTION BOX (N) EXTERNAL 3/4 CONDUIT (N) LOAD CENTER (N) AC DISCONNECT (E) UTILITY METER ROOF 1 (OUTSIDE HOUSE) (E) MAIN SERVICE PANEL (INSIDE HOUSE) ROOF 2

### MODULE TYPE, DIMENSIONS & WEIGHT:

NUMBER OF PANELS IN ARRAY = 31 MODULES MODULE TYPE = MISSION SOLAR MSE395SX9R PV MODULES NUMBER OF CONNECTIONS TO ROOF = 63 WEIGHT OF INDIVIDUAL PANEL = 48.5 LBS / 22.00 KG MOUNTING SYSTEM WEIGHT: 1.5 LBS PER MODULE TOTAL WEIGHT OF ARRAY: 1503.50 LBS WEIGHT AT EACH CONNECTION: 1503.50 LBS / 63 = 23.87 LBS SOLAR PANEL AREA = 75.08" X 41.5" = 21.64 SQFT TOTAL ARRAY AREA = 31X21.64 = 670.84 SQFT DISTRIBUTED LOAD = 1503.50/670.84 = 2.24 PSF

### PHOTOVOLTAIC MODULE GENERAL NOTES

- 1. APPLICABLE CODE: 2023 FLORIDA BUILDING CODE 8th ED. & ASCE 7-22 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER
- 2. BOLT DIAMETER AND EMBEDMENT LENGTHS ARE DESIGNED PER NDS(2023) REQUIREMENTS. ALL BOLT CAPACITIES ARE BASED ON A WOOD ROOF RAFTER AS EMBEDMENT MATERIAL
- 3. ALL WIND DESIGN CRITERIA AND PARAMETERS ARE FOR HIP AND GABLE RESIDENTIAL ROOFS, CONSIDERING FROM A 7° TO A MAXIMUM 27° (2/12 TO A MAXIMUM 6/12 PITCH) ROOF IN SCHEDULE. ALL RESIDENTIAL ROOFS SHALL NOT EXCEEN 30'-0" MEAN ROOF HEIGHT.
- 4. ROOF SEALANTS SHALL CONFORM TO ASTM C920 AND ASTM
- 5. THIS SHEET REFLECTS STRUCTURAL CONNECTIONS ONLY. REFER TO MANUFACTURER'S MANUAL FOR ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND SOLAR
- 6. ALL ALUMINUM COMPONENTS SHALL BE ANODIZED ALUMINUM 6105-T5 UNLESS OTHERWISE NOTED.
- 7. LAG BOLTS SHALL BE ASTM A276 STAINLESS STEEL UNLESS OTHERWISE NOTED.
- 8. ALL RAILING AND MODULES SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
- 9. I CERTIFY THAT THE INSTALLATION OF THE MODULES IS IN COMPLIANCE WITH FBC: BUILDING CHAPTER 16 AND FBC: RESIDENTIAL CHAPTER 3. BUILDING STRUCTURE WILL SAFELY ACCOMMODATE CALCULATED WIND LATERAL AND UPLIFT FORCES, AND EQUIPMENT DEAD LOADS



383 SW WOODCREST DR, LAKE CITY, FL 32024 AHJ STAMP Digitally signed by Matthew R Craig Location: Printed copies of this document are no considered signed and sealed and the signature must be verified on any electronic copie Date: 2025.03.22 07:53:07-04'00' 12.245 KW E ΞZ REVISIONS SHEET TITLE LAYOUT PLAN DRAWN DATE DRAWN BY JEROME JAPAL SHEET TITLE **PV - 2** 

3241 NW 38th St. Miami, FL 33142

AMERICAN SOLAR INSTALLATION COMPANY

### NOTES:

I. LOCATION OF JUNCTION BOX(ES), AC
DISCONNECT(S), AC COMBINER PANEL(S), AND
OTHER ELECTRICAL EQUIPMENT RELEVANT TO
PV INSTALLATION SUBJECT TO CHANGE BASED
ON SITE CONDITIONS.

2. SETBACKS AT RIDGES CAN BE REDUCED TO 18 INCHES IF TOTAL PV AREA IS WITHIN 33% OF TOTAL ROOF AREA IN COMPLIANCE WITH IBC 2023:

2023: TOTAL ROOF AREA = 2472.8318 SQFT TOTAL PV AREA = 31(75.08" X 41.5")/(144 IN^2) = 670.84 SQFT

(670.84 SQFT/2472.8318 SQFT)100 = 27.13% TOTAL PV AREA POPULATES 27.13% OF TOTAL ROOF AREA

### MODULE TYPE, DIMENSIONS & WEIGHT:

NUMBER OF PANELS IN ARRAY = 31 MODULES
MODULE TYPE = MISSION SOLAR MSE395SX9R PV MODULES
NUMBER OF CONNECTIONS TO ROOF = 63
WEIGHT OF INDIVIDUAL PANEL = 48.5 LBS / 22.00 KG
MOUNTING SYSTEM WEIGHT: 1.5 LBS PER MODULE
TOTAL WEIGHT OF ARRAY: 1503.50 LBS
WEIGHT AT EACH CONNECTION: 1503.50 LBS / 63 = 23.87 LBS
SOLAR PANEL AREA = 75.08" X 41.5" = 21.64 SQFT
TOTAL ARRAY AREA = 31X21.64 = 670.84 SQFT
DISTRIBUTED LOAD = 1503.50/670.84 = 2.24 PSF

### NOTES

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

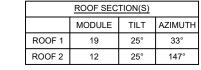
2. ROOF VENTS, SKYLIGHTS, WILL NOT BE COVERED UPON PV INSTALLATION.

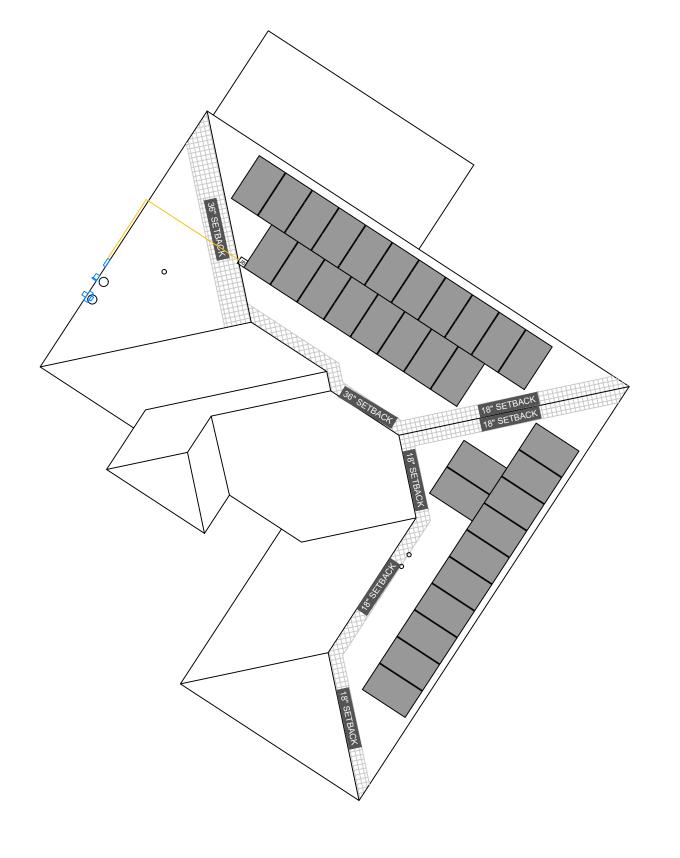
3. AC DISCONNECT IS LOCATED WITHIN 10FT FROM THE UTILITY METER.



SITE PLAN

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





JOSHUA AFTON

383 SW WOODCREST DR,
LAKE CITY, FL 32024
INSTALLATION COMPANY
3241 NW 38th St. Miami, FL 33142

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Date: 2025.03.22 07:53:07-04'00'

DATE (N) 12.245 KW DC (N) 11.520 KW AC

	DATE				
REVISIONS	DESCRIPTION				
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ROOF LAYOUT

I DIVAMIN DI I DEIXONIE DAI AL	DRAWN BY JEROME JAPAL	- 1	DIVAVVIVIDI	JEINONE JAFAE	
	DDAMALDY ISDOMS (ADA)				

SHEET TITLE PV - 2 (2)

"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 12,245 DC WATTS UNDER (STC)

- BRANCHED CIRCUITS OF 16 MODULES
- (1) BRANCHED CIRCUITS OF 15 MODULES

### 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

AMBIENT TEMPERATURE SPECS		
RECORD LOW TEMP	6°	
AMBIENT TEMP (HIGH TEMP 2%)	35°	
CONDUCTOR 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

1. SUBJECT PV SYSTEM HAS BEEN DESIGNED TO MEET THE REQUIREMENT OF THE NEC 2023, NFPA 70 AND THOSE SET FORTH BY THE FLORIDA SOLAR ENERGY CENTER CERTIFICATION, INCLUDING MAXIMUM NUMBER OF MODULE STRINGS, MAXIMUM NUMBER OF MODULES PER STRING, MAXIMUM OUTPUT, MODULE MANUFACTURER AND MODEL NUMBER, INVERTER MANUFACTURER AND MODEL NUMBER, AS APPLICABLE.

2. PROVIDE TAP BOX IN COMPLIANCE WITH 312.8 IF PANEL GUTTER SPACE IS INADEQUATE.

### **GROUNDING & GENERAL NOTES**

- 1. PV INVERTER IS UNGROUNDED, TRANSFORMER-LESS TYPE
- 2. DC EGC AND AC EGC TO BE SPLICED TO EXISTING ELECTRODE
- 3. ANY EXISTING WIRING INVOLVED WITH PV SYSTEM CONNECTION THAT IS FOUND TO BE INADEQUATE PER CODE SHALL BE CORRECTED PRIOR TO FINAL INSPECTION
- 4. JUNCTION BOX QUANTITIES, AND PLACEMENT SUBJECT TO CHANGE IN THE FIELD - JUNCTION BOXES DEPICTED ON ELECTRICAL DIAGRAM REPRESENT WIRE TYPE TRANSITIONS
- 5. AC DISCONNECT NOTED IN EQUIPMENT SCHEDULE OPTIONAL IF OTHER AC DISCONNECTING MEANS IS LOCATED WITHIN 10' OF SERVICE DISCONNECT
- 6. SIZING OF OVERCURRENT PROTECTION DEVICES ARE ROUNDED TO THE NEAREST WHOLE AMPERE WITH DECIMAL FRACTIONS SMALLER THAN 0.5 DROPPED ACCORDING TO 220.5(B)

### INTERCONNECTION NOTES

- 1. INTERCONNECTION SIZING, LIMITATIONS AND COMPLIANCE DETERMINED IN ACCORDANCE WITH [NEC 705.12]
- 2. GROUND FAULT PROTECTION IN ACCORDANCE WITH [NEC 215.9], [NEC 230.95] AND [NEC 690.41]
- 3. ALL EQUIPMENT TO BERATED FOR BACKFEEDING
- 4. PV BREAKER TO BE POSITIONED AT THE OPPOSITE END OF THE BUSBAR RELATED TO THE MAIN BREAKER

### DISCONNECT NOTES

- 1. DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING LIVE ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS)
- 2. AC DISCONNECT MUST BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH

				WIRE SCHEDULE						
TAG	CONDUCTOR DETAILS	GROUND DETAILS	CONDUIT SIZE	CONDUCTOR RATING	AMBIENT TEMP	DEGREE COLUMN	TEMP DERATE	# OF CONDUCTOR DERATE	CONDUCTOR RATING W/ DERATES	CONDUIT FILL
1	(2) #12 PV CABLE CU	(1) #6 AWG BARE CU	FREE AIR	30 A	35°C	90°C	0.96	1	28.8 A	FREE AIR
2	(4) #10 AWG THHN/THWN-2, CU	(1) #8 AWG THWN-2, CU	3/4" EMT OR PVC	40 A	35°C	90°C	0.96	0.8	30.72 A	22.0%
3	(3) #6 AWG THWN-2, CU	(1) #8 AWG THWN-2, CU	3/4" EMT OR PVC	75 A	35°C	90°C	0.96	1	72 A	34.1%

SOLAR MODULE SPECIFICATIONS				
MANUFACTURER / MODEL	MISSION SOLAR MSE395SX9R (395W) PV MODULES			
VMP	36.99 V			
IMP	10.68 A			
VOC	45.18 V			
ISC	11.24 A			
DIMENSION	75.08" L X 41.5"W X 1.57" D			

INVERTER SPECIFICATIONS			
MANUFACTURER / MODEL	HOYMILES HMS-1600-4T-NA MICROINVERTERS		
MAXIMUM OUTPUT POWER 1440 W			
NOMINAL VOLTAGE 240 A			
NOMINAL OUTPUT CURRENT	6 A		
INVERTER QUANTITY 8			

THIS FOUIPMENT SUITABLE

FOR ATTACHMENT TO

FLOATING STRUCTURES, OR

ATTACHED TO STRUCTURES

FLOATING ON BODIES

OF WATER.

PV OVERCURRENT PROTECTION ...NEC 690.9(B) = TOTAL INVERTER O/P CURRENT x 1.25

= (8 x 6) x 1.25 = 60.00 A

SELECTED OCPD = 60 A ...NEC 240.6

### WARNING LABELS

LABEL LOCATION: COMBINER BOX / CIRCUITS /
CONDUIT COMBINER BOX / ENCLOSURES / EMT ENCLOSURES

♠ WARNING ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND

IN THE OPEN POSITION

WARNING

**ELECTRICAL SHOCK HAZARD** 

TERMINALS ON BOTH LINE AND

LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

BRANCH CIRCUIT (2)

BRANCH CIRCUIT (1)

15 MODULES 4 HOYMILES HMS-1600-4T-NA

16 MODULES 4 HOYMILES HMS-1600-4T-NA LABEL LOCATION : EMT / CONDUIT RACEWAYS

HOTOVOLTAIC POWER SOURC

WARNING TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

DO NOT DISCONNECT

UNDER LOAD

LABEL LOCATION : AC DISCONNECT / BREAKER / POINTS OF CONNECTION

WARNING **ELECTRICAL SHOCK HAZARD** THIS EQUIPMENT FED BY

MULTIPLE SOURCES: TOTAL RATING OF ALL OVERCURREN DEVICES EXCLUDING MAIN POWER SUPPLY SHALL NOT EXCEED AMPACITY OF BUSBAR

WITH RAPID SHUTDO

LABEL LOCATION : BUILDING / STRUCTURE LABEL LOCATION : MAIN SERVICE DISCONNECT / UTILITY METER

> **MAIN PHOTOVOLTAIC** SYSTEM DISCONNECT

> > C OPERATING VOLTAGE 240 VAC

RAPID SHUTDOWN SWITCH

FOR SOLAR PV SYSTEM

**A** CAUTION

LABEL LOCATION: MAIN SERVICE DISCONNECT WARNING

WARNING

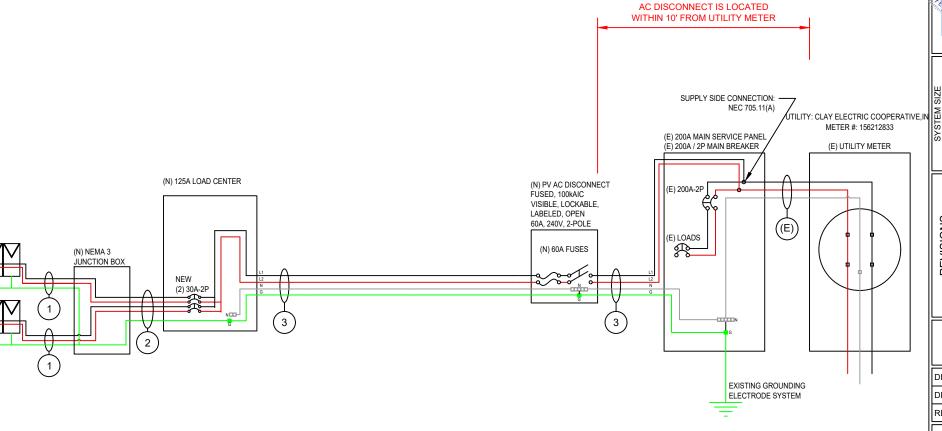
ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED OVERCURRENT DEVICE IN THE OPEN POSITION



TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL

SINGLE 120-VOLT SUPPLY DO NOT CONNECT MULTIWIRE BRANCH CIRCUITS

**MARNING DUAL POWER SOURCE** 



383 SW WOODCREST DI LAKE CITY, FL 32024 JOSHUA AFTON

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3241 NW 38th St. Miami, FL 33142

AMERICAN SOLAR INSTALLATION COMPANY

88 ₹ <del>\$</del> 12.245 l 11.520 l  $\widehat{\mathbf{Z}}\widehat{\mathbf{Z}}$ REVISIONS DESCRIPT SHEET TITLE **ELECTRICAL** DIAGRAM AND LABELS DRAWN DATE 03/21/2025

DRAWN BY JEROME JAPAL

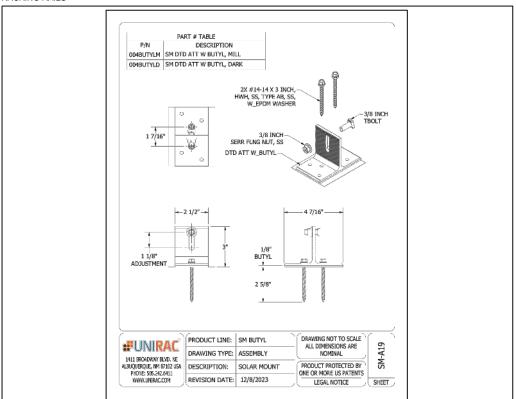
SHEET TITLE

PV - 3

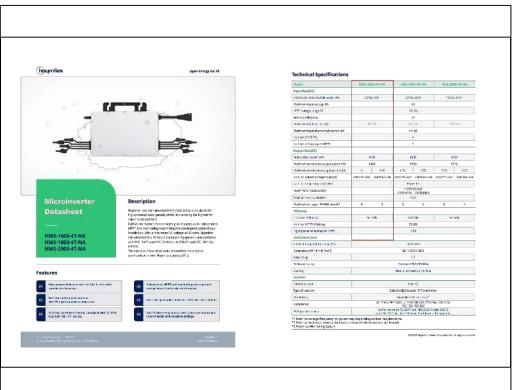




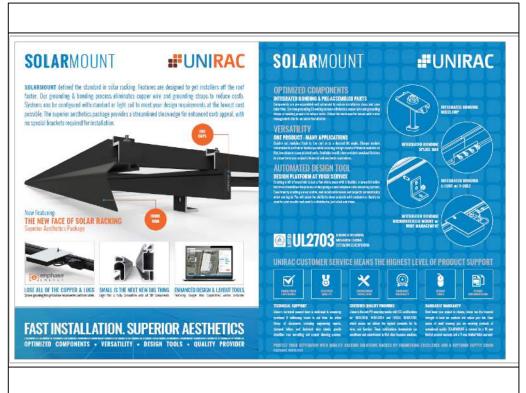
### RACKING RAILS



### INVERTER



### **ROOF ATTACHMENT**



3241 NW 38th St. Miami, FL 33142 AMERICAN SOLAR INSTALLATION COMPANY

JOSHUA AFTON

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383 SW WOODCREST DR, LAKE CITY, FL 32024

12.245 KW E 11.520 KW A ΞZ REVISIONS DESCRIPTION

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SHEET TITLE DATA SHEETS

03/04/2025 DRAWN BY JEROME JAPAL REVIEWED BY

> SHEET TITLE **PV-4**