PHOTOVOLTAIC GROUND MOUNT SYSTEM

19 MODULES-GROUND MOUNTED - 7.505 KW DC, 6.000 KW AC

60 AARON DR, FUQUAY-VARINA, NC 27526

PROJECT DATA **PROJECT**

60 AARON DR.

FUQUAY-VARINA, NC 27526

OWNER:

ADDRESS

SHARON DIXON-THIBODEAUX

DESIGNER: ESR

SCOPE: 7.505 KW DC GROUND MOUNT

SOLAR PV SYSTEM WITH 19 MISSION SOLAR: MSE395SX9R 395W

PV MODULES WITH

19 SOLAREDGE: S440 POWER OPTIMIZERS AND 01 SOLAREDGE: SE6000H-US (240V) INVERTER

AUTHORITIES HAVING JURISDICTION: BUILDING: HARNETT COUNTY

ZONING: HARNETT COUNTY UTILITY: DUKE ENERGY

SHEET INDEX

COVER SHEET

PV-2 PLOT PLAN WITH GROUND PLAN

PV-3 **GROUND PLAN & MODULES**

PV-4 ELECTRICAL PLAN

PV-5 **MOUNTING DETAIL-1**

MOUNTING DETAIL-2 PV-5A

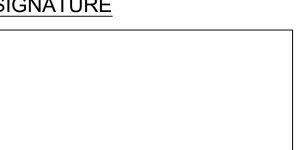
PV-6 ELECTRICAL LINE DIAGRAM

WIRING CALCULATIONS PV-7

PV-8 LABELS

EQUIPMENT SPECIFICATIONS PV-9+

SIGNATURE



GENERAL NOTES

- ALL COMPONENTS ARE UL LISTED AND CEC CERTIFIED, WHERE WARRANTED
- THE SOLAR PV SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH ARTICLE 690 OF THE NEC 2017.
- THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION.
- ALL CONDUCTORS OF A CIRCUIT, INCLUDING THE EGC, MUST BE INSTALLED IN THE SAME RACEWAY, OR CABLE, OR OTHERWISE RUN WITH THE PV ARRAY CIRCUIT CONDUCTORS WHEN THEY LEAVE THE VICINITY OF THE PV ARRAY.
- WHERE METALLIC CONDUIT CONTAINING DC CONDUCTORS IS USED INSIDE THE BUILDING. IT SHALL BE IDENTIFIED AS "CAUTION: SOLAR CIRCUIT" EVERY 10FT.
- HEIGHT OF THE AC DISCONNECT SHALL NOT EXCEED 6'-7" PER NEC CODE 240.24.
- A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH CEC 690.47 AND 250.50 THROUGH 60 AND 250-166 SHALL BE PROVIDED. PER NEC GROUNDING ELECTRODE SYSTEM OF EXISTING BUILDING MAY BE USED AND BONDED TO THE SERVICE ENTRANCE. IF EXISTING SYSTEM IS INACCESSIBLE OR INADEQUATE A SUPPLEMENTAL GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A UL LISTED 8 FT. GROUND ROD WITH ACORN CLAMP. GROUNDING ELECTRODE CONDUCTORS SHALL BE NO LESS THAN #8 AWG AND NO LARGER THAN #6 AWG COPPER AND BONDED TO THE EXISTING GROUNDING ELECTRODE TO PROVIDE FOR A COMPLETE SYSTEM.
- PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE
- PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING. MECHANICAL, OR BUILDING ROOF VENTS.
- 10. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. WIRING MUST BE PERMANENTLY AND COMPLETELY HELD OFF THE ROOF SURFACE.
- ALL SINAGE TO BE PLACED IN ACCORDANCE WITH THE LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT, ALL PLAQUES AND SINAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.
- 12. INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE UL 1741 LISTED.
- 13. THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY QUALIFIED PERSONS [NEC 690.4(C)]
- 14. ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND
- 15. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250.
- 16. SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41.
- 17. PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH NEC 690.12
- 18. DISCONNECTING MEANS SHALL BE LOCATED IN A VISIBLE, READILY ACCESSIBLE LOCATION WITHIN THE PV SYSTEM EQUIPMENT OR A MAXIMUM OF 10 FEET AWAY FROM THE SYSTEM [NEC 690.13(A)]
- 19. ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC 690.31
- 20. WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3).
- 21. ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED & IDENTIFIED IN ACCORDANCE WITH
- 22. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC.

VICINITY MAP



HOUSE PHOTO



CODE REFERENCES

2018 NORTH CAROLINA BUILDING CODE 2018 NORTH CAROLINA RESIDENTIAL CODE 2018 NORTH CAROLINA FIRE CODE 2017 NATIONAL ELECTRICAL CODE

TOP TIER SOLAR SOLUTIONS

1530 CENTER PARK DR #2911. CHARLOTTE, NC 28217, UNITED STATES

DESCRIPTION Wyssling Consulting, PLLC Meadowbrook Drive Alpine UT 84004

North Carolina COA # P-2308 Signed 4/27/2023

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PROJECT NAME & ADDRESS

27526 DIXON-THIBODE, RESIDENCE 60 AARON DR, FUQUAY-VARINA, NC

> DRAWN BY **ESR**

SHEET NAME

COVER SHEET

SHEET SIZE **ANSI B**

11" X 17"

SHEET NUMBER

PROJECT DESCRIPTION:

19 X MISSION SOLAR: MSE395SX9R 395W MONO MODULES GROUND MOUNTED SOLAR PHOTOVOLTAIC MODULES

DC SYSTEM SIZE: 7.505KW DC AC SYSTEM SIZE: 6.000KW AC

EQUIPMENT SUMMARY

19 MISSION SOLAR: MSE395SX9R 395W MONO MODULES

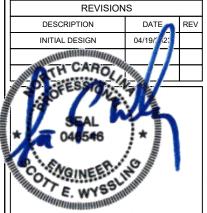
19 SOLAREDGE: S440 POWER OPTIMIZERS 01 SOLAREDGE: SE6000H-US (240V) INVERTER





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Myssling Consulting, PLLC 6 N Meadowbrook Drive Alpine VT 84004 North Carolina COA # P-2308

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PROJECT NAME & ADDRESS

27526 DIXON-THIBODEAUX RESIDENCE 60 AARON DR, FUQUAY-VARINA, NC SHARON

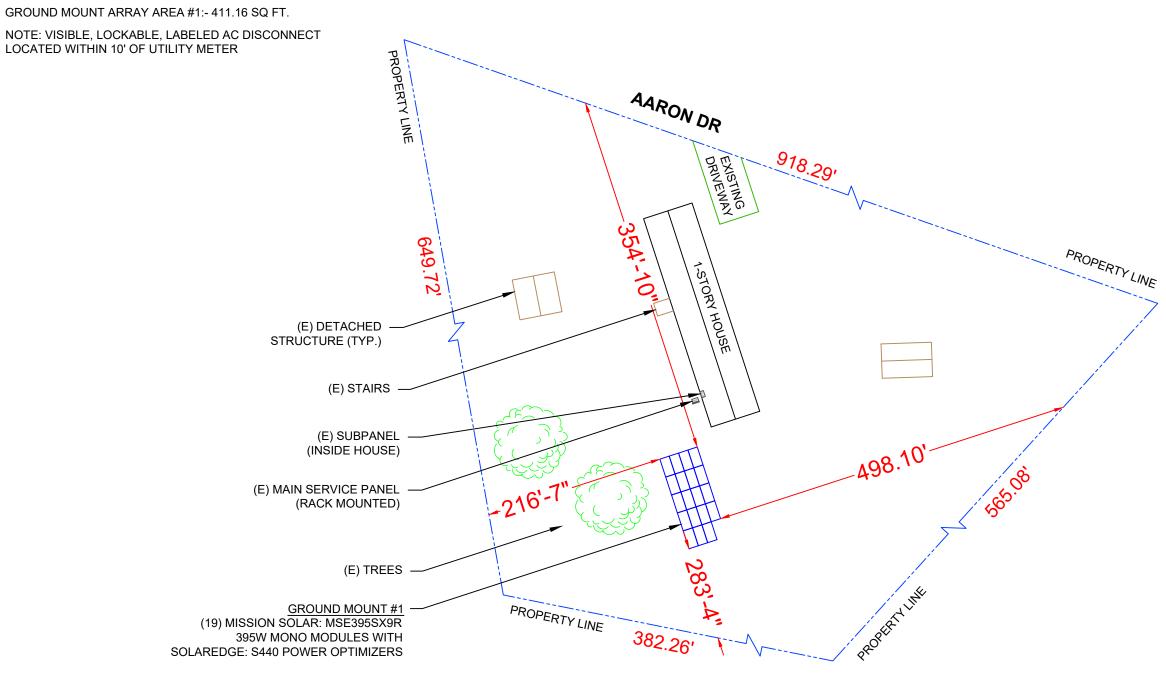
> DRAWN BY **ESR**

SHEET NAME PLOT PLAN WITH **GROUND PLAN**

> SHEET SIZE **ANSIB**

11" X 17"

SHEET NUMBER



MODULE TYPE, DIMENSIONS & WEIGHT

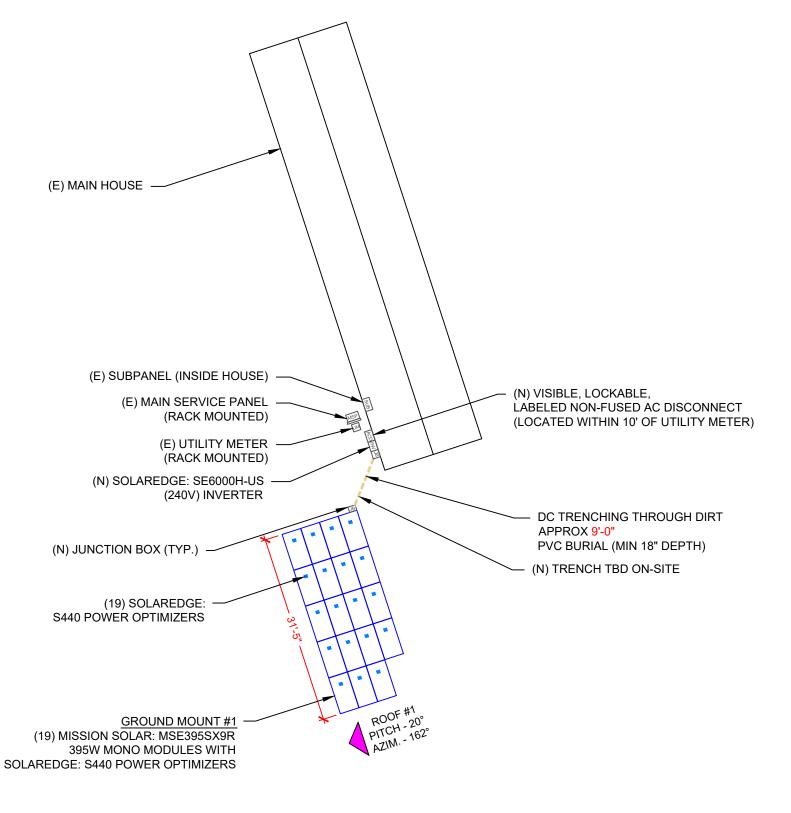
NUMBER OF MODULES = 19 MODULES

MODULE TYPE = MISSION SOLAR: MSE395SX9R 395W MONO MODULES

MODULE WEIGHT = 48.5 LBS / 22.0KG.

MODULE DIMENSIONS = 75.08" x 41.50" = 21.64 SF

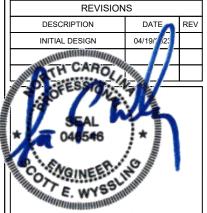






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SHARON DIXON-THIBODEAUX RESIDENCE 60 AARON DR, FUQUAY-VARINA, NC 27526

LEGEND

ACD -

- AC DISCONNECT

MISSION SOLAR: MSE395SX9R 395W MODULES

- INVETER

SUB

- UTILITY METER

SUE

- SUBPANEL

JB

- MAIN SERVICE PANEL

- JUNCTION BOX - CONDUIT

- TRENCH

DRAWN BY

SHEET NAME GROUND PLAN & MODULES

> SHEET SIZE ANSI B

11" X 17"

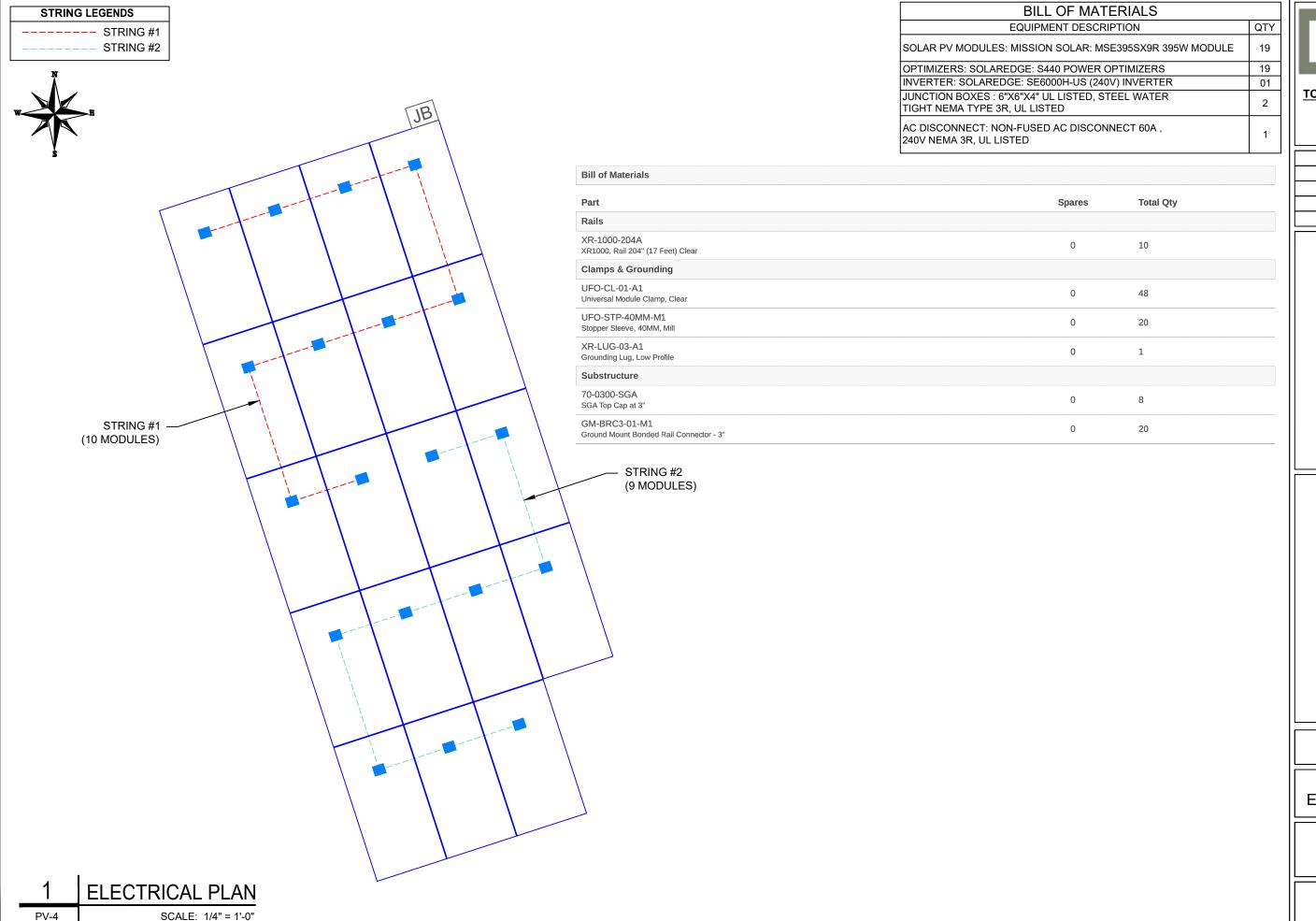
SHEET NUMBER

PV-3

GROUND PLAN & MODULES

PV-3

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





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INITIAL DESIGN	04/19/2023						

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DRAWN BY

SHEET NAME

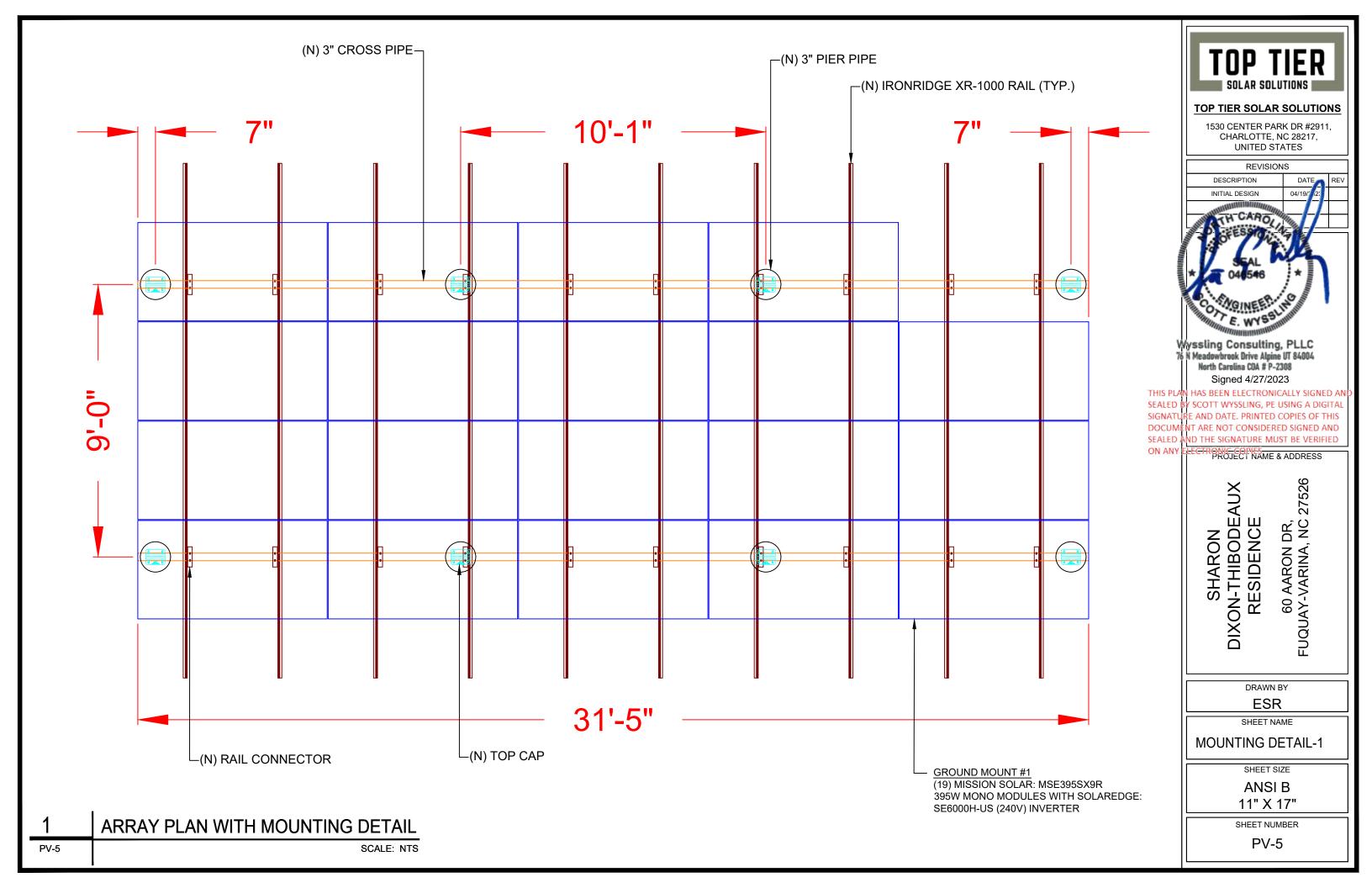
ELECTRICAL PLAN

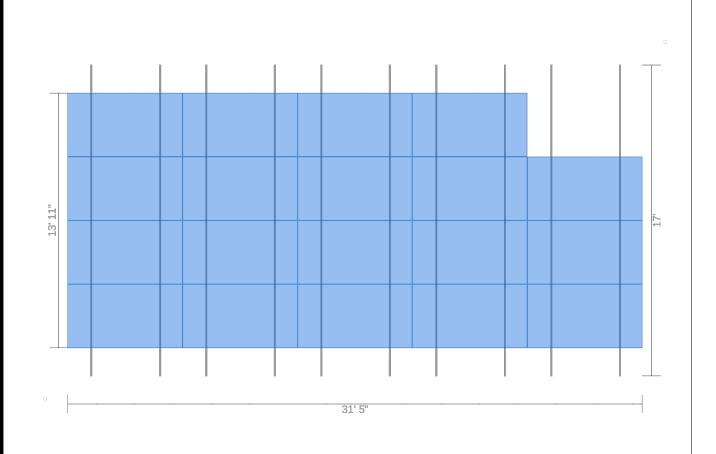
SHEET SIZE

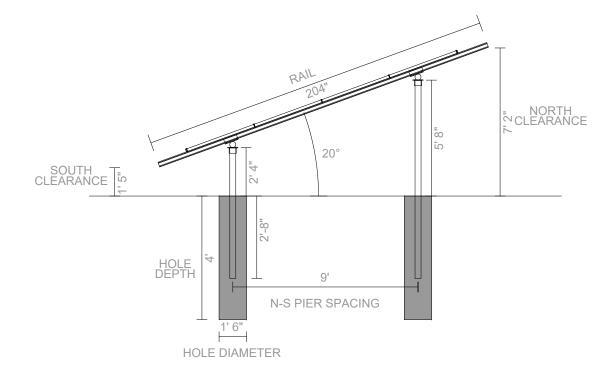
ANSI B

11" X 17"

SHEET NUMBER



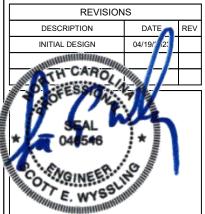






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DRAWN BY

SHEET NAME

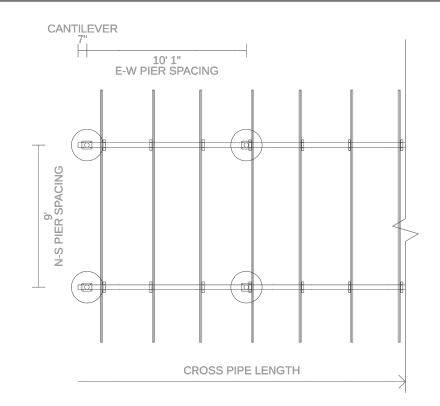
MOUNTING DETAIL-2

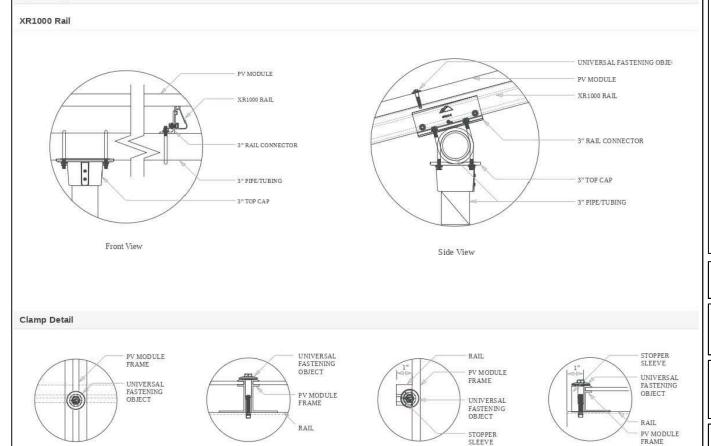
SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER PV-5A





Mid Clamp, Front

End Clamp, Plan

End Clamp, Front

Pipe Fitting Detail

Mid Clamp, Plan

DC SYSTEM SIZE: 7.505KW DC AC SYSTEM SIZE: 6.000KW AC

(19) MISSION SOLAR: MSE395SX9R 395W MONO MODULES WITH (19) SOLAREDGE: S440 POWER OPTIMIZERS LOCATED UNDER EACH PANEL (240V) AND (01) SOLAREDGE: SE6000H-US (240V) INVERTER

(1) STRING OF 10 MODULES AND

(1) STRING OF 9 MODULES ARE CONNECTED IN SERIES

(19) MISSION SOLAR: MSE395SX9R

STRING #1

STRING #2

395W MODULES

INTERCONNECTION NOTES:

- 1. INTERCONNECTION SIZING, LIMITATIONS AND COMPLIANCE DETERMINED IN ACCORDANCE WITH [NEC 705.12], AND [NEC 690.59].
 2. GROUND FAULT PROTECTION IN ACCORDANCE WITH [NEC 215.9], [NEC 230.95].
- 3. ALL EQUIPMENT TO BE RATED FOR BACKFEEDING.
- 4. PV BREAKER TO BE POSITIONED AT THE OPPOSITE END OF THE BUSBAR RELATIVE TO THE MAIN BREAKER.

DISCONNECT NOTES:

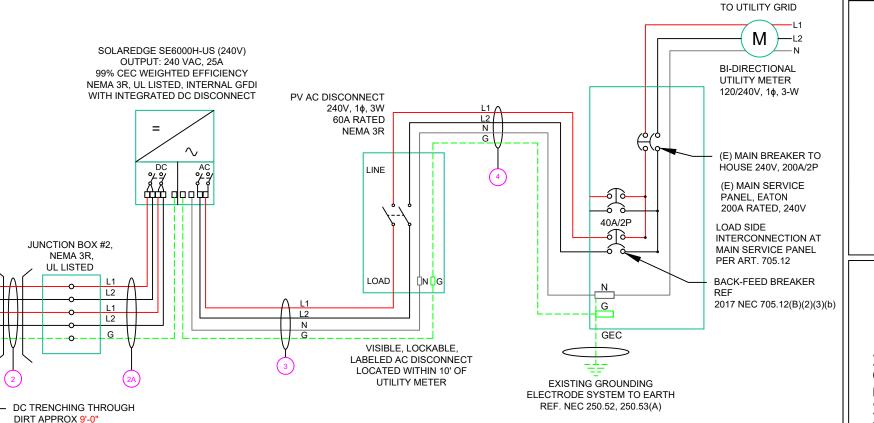
- 1. DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING LIVE ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS)
- 2. AC DISCONNECT MUST BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH 3. DISCONNECT MEANS AND THEIR LOCATION SHALL BE IN ACCORDANCE WITH [NEC 225.31] AND [NEC 225.32].

GROUNDING & GENERAL NOTES:

- 1. PV GROUNDING ELECTRODE SYSTEM NEEDS TO BE INSTALLED IN ACCORDANCE WITH [NEC 690.43]
- 2. PV INVERTER IS UNGROUNDED, TRANSFORMER-LESS TYPE.
- 3. DC GEC AND AC EGC TO REMAIN UNSPLICED, OR SPLICED TO EXISTING FLECTRODE
- 4. ANY EXISTING WIRING INVOLVED WITH PV SYSTEM CONNECTION THAT IS FOUND TO BE INADEQUATE PER CODE SHALL BE CORRECTED PRIOR TO FINAL INSPECTION.
- 5. JUNCTION BOX QUANTITIES, AND PLACEMENT SUBJECT TO CHANGE IN THE FIELD JUNCTION BOX DEPICTED ON ELECTRICAL DIAGRAM REPRESENT WIRE TYPE TRANSITIONS.
- 6. AC DISCONNECT NOTED IN EQUIPMENT SCHEDULE OPTIONAL IF OTHER AC DISCONNECTING MEANS IS LOCATED WITHIN 10' OF SERVICE DISCONNECT. 7. RACEWAYS AND CABLES EXPOSED TO SUNLIGHT ON ROOFTOPS SHOULD BE INSTALLED MORE THAN 7/8" ABOVE THE ROOF USING CONDUIT SUPPORTS.

RACKING NOTE:

1. BOND EVERY RAIL WITH #6 BARE COPPER



(1) #10AWG - CU,THWN-2 GND

SOLAREDGE POWER OPTIMIZERS \$440 RATED

DC INPUT POWER - 440WATTS

MAXIMUM INPUT VOLTAGE - 60 VDC

MPPT RANGE - 8 TO 60 VDC

MAXIMUM SHORT STRING CURRENT - 14.5 ADC

MAXIMUM OUTPUT CURRENT - 15 ADC

STRING LIMITATIONS - 8 TO 25 OPTIMIZERS,
5700 WATTS STC PER STRING MAXIMUM

PVC BURIAL (MIN. 18"DEPTH)

JUNCTION BOX #1,

600 V, NEMA 3R,

UL LISTED

L2

L1

L2

G

	QTY	co	NDUCTOR INFORMATION	CONDUIT TYPE	CONDUIT SIZE
1	(4)	#10AWG -	PV WIRE/USE-2	N/A	N/A
	(1)	#6AWG -	BARE COPPER IN FREE AIR		
2	(4)	#10AWG -	CU,THWN-2	PVC BURIAL	3/4"
\mathcal{L}	(1)	#10AWG -	CU,THWN-2 GND	(MIN 18" DEPTH)	3/4
(2A)-	(4)	#10AWG -	CU,THWN-2	EMT.LFMC OR PVC	3/4"
	(1)	#10AWG -	CU,THWN-2 GND		G, 1
	(2)	#8AWG -	CU,THWN-2		
(3)-	(1)	#8AWG -	CU,THWN-2 N	EMT,LFMC OR PVC	3/4"
	(1)	#10AWG -	CU,THWN-2 GND		
	(2)	#8AWG -	CU,THWN-2		
(4)	(1)	#8AWG -	CU,THWN-2 N	EMT, LFMC OR PVC	3/4"

NOTE: CONDUIT TO BE UL LISTED FOR

WET LOCATIONS AND UV PROTECTED

TOP TIER
SOLAR SOLUTIONS

TOP TIER SOLAR SOLUTIONS

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REVISION	IS	
DESCRIPTION	DATE	REV
INITIAL DESIGN	04/19/2023	

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FUQUAY-VARINA, NC 27526

DRAWN BY
ESR
SHEET NAME

.__..

ELECTRICAL LINE DIAGRAM

SHEET SIZE

ANSI B

11" X 17"

PV-6

1 ELECTRICAL LINE DIAGRAM
PV-6 SCALE: NTS

SOLAR M	ODULE SPECIFICATIONS
MANUFACTURER / MODEL #	MISSION SOLAR: MSE395SX9R 395W MODULE
VMP	36.99V
IMP	10.68A
VOC	45.18V
ISC	11.24A
TEMP. COEFF. VOC	-0.259%/°C
MODULE DIMENSION	75.08"L x 41.50"W x 1.57"D (In Inch)

INVERTER SPECIFICATIONS									
MANUFACTURER / MODEL #	SOLAREDGE: SE6000H-US (240V) INVERTER								
NOMINAL AC POWER	6.000 kW								
NOMINAL OUTPUT VOLTAGE	240 VAC								
NOMINAL OUTPUT CURRENT	25A								

AMBIENT TEMPERATURE SPECS							
RECORD LOW TEMP	-9°						
AMBIENT TEMP (HIGH TEMP 2%)	38°						
MODULE TEMPERATURE COEFFICIENT OF Voc	-0.259%/°C						

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

	AC FEEDER CALCULATIONS																					
CIRCUIT ORIGIN	CIRCUIT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)	FLA*1.25 (A)	OCPD SIZE (A)	NEUTRAL SIZE	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPACITY CHECK #1		TOTAL CC CONDUCTORS IN RACEWAY	90°C AMPACITY (A)	FOR AMBIENT	DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a)		AMPACITY CHECK #2		CONDUCTOR RESISTANCE (OHM/KFT)		CONDUIT SIZE	CONDUIT FILL (%)
INVERTER 1	AC DISCONNECT	240	25	31.25	40	CU #8 AWG	CU #10 AWG	CU #8 AWG	50	PASS	38	2	55	0.91	1	50.05	PASS	5	0.778	0.081	3/4" EMT	24.5591
AC DISCONNECT	POI	240	25	31.25	40	CU #8 AWG	CU #10 AWG	CU #8 AWG	50	PASS	38	2	55	0.91	1	50.05	PASS	5	0.778	0.081	3/4" EMT	24.5591
																		CUMULATIV	/E VOLTAGE	0.162]	

	DC FEEDER CALCULATIONS																				
CIRCUIT ORIGIN	CIRCUIT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)	FLA*1.25 (A)	OCPD SIZE (A)	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPACITY CHECK #1	AMBIENT TEMP. (°C)	TOTAL CC CONDUCT ORS IN RACEWAY	90°C AMPACITY (A)	FOR AMBIENT	DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a)		AMPACITY CHECK #2	FEEDER LENGTH (FEET)	CONDUCTOR RESISTANCE (OHM/KFT)		CONDUIT SIZE	CONDUIT FILL (%)
STRING 1	JUNCTION BOX #1	380	15.00	18.75	20	BARE COPPER #6 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	5	1.24	0.049	N/A	#N/A
STRING 2	JUNCTION BOX #1	380	15.00	18.75	20	BARE COPPER #6 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	5	1.24	0.049	N/A	#N/A
JUNCTION BOX #1	JUNCTION BOX #2	380	15.00	18.75	20	CU #10 AWG	CU #10 AWG	35	PASS	38	4	40	0.91	0.8	29.12	PASS	9	1.24	0.088	3/4" PVC	20.76772
JUNCTION BOX #2	INVERTER	380	15.00	18.75	20	CU #10 AWG	CU #10 AWG	35	PASS	38	4	40	0.91	0.8	29.12	PASS	5	1.24	0.049	3/4" EMT	19.79362

String 1 Voltage Drop	0.186
String 2 Voltage Drop	0.186

ELECTRICAL NOTES

- 1. ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- 2. ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
- 3. WIRING, CONDUIT, AND RACEWAYS MOUNTED ON GROUNDTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.
- 4. WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- 5. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
- 6. WHERE SIZES OF JUNCTION BOX, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- 7. ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- 8. MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- 9. MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN
- 10. TEMPERATURE RATINGS OF ALL CONDUCTORS, TERMINATIONS, BREAKERS, OR OTHER DEVICES ASSOCIATED WITH THE SOLAR PV SYSTEM SHALL BE RATED FOR AT LEAST 75 DEGREE C.



TOP TIER SOLAR SOLUTIONS

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PROJECT NAME & ADDRESS

SHAKON
DIXON-THIBODEAUX
RESIDENCE
60 AARON DR,
FUQUAY-VARINA, NC 27526

DRAWN BY

SHEET NAME

WIRING CALCULATIONS

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PHOTOVOLTAIC POWER SOURCE

EVERY 10' ON CONDUIT & ENCLOSURES

LABEL- 1: LABEL LOCATION: EMT/CONDUIT RACEWAY SOLADECK / JUNCTION BOX CODE REF: NEC 690.31 (D)(2)

⚠ WARNING

ELECTRIC SHOCK HAZARD

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

LABEL- 2: LABEL LOCATION: AC DISCONNECT **INVERTER** MAIN SERVICE PANEL SUBPANEL MAIN SERVICE DISCONNECT CODE REF: NEC 690.13(B)

⚠ WARNING

DUAL POWER SUPPLY

SOURCE: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

LABEL- 3: LABEL LOCATION: MAIN SERVICE PANEL CODE REF: NEC 705.12(C) & NEC 690.59

SOLAR PV BREAKER:

BREAKER IS BACKFED DO NOT RELOCATE

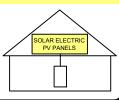
LABEL-4: LABEL LOCATION: MAIN SERVICE PANEL CODE REF: NEC 705.12(C) & NEC 690.59

POWER SOURCE OUTPUT CONNECTION. DO NOT **RELOCATE THIS OVERCURRENT DEVICE**

LABEL LOCATION: MAIN SERVICE PANEL (ONLY IF SOLAR IS BACK-FED) SUBPANEL (ONLY IF SOLAR IS BACK-FED) CODE REF: NEC 705.12(B)(3)(2)

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- 6: LABEL LOCATION: AC DISCONNECT CODE REF: [NEC 690.56(C)(1)(A)]

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL- 7: LABEL LOCATION: AC DISCONNECT MAIN SERVICE PANEL CODE REF: NEC 690.56(C)(2)

DC DISCONNECT

LABEL- 8: LABEL LOCATION: CODE REF: NEC 690.13(B)

MAXIMUM VOLTAGE 480 V MAXIMUM CIRCUIT CURRENT 16.50 A MAXIMUM RATED OUTPUT **CURRENT OF THE CHARGE** CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED)

LABEL- 9: LABEL LOCATION: INVERTER CODE REF: NEC 690.53

AC DISCONNECT PHOTOVOLTAIC SYSTEM **POWER SOURCE** NOMINAL OPERATING AC VOLATGE 240 V 25.**00 A** RATED AC OUTPUT CURRENT

LABEL- 10: **LABEL LOCATION:** AC DISCONNECT CODE REF: NEC 690.54

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PROJECT NAME & ADDRESS

27526

60 AARON DR, FUQUAY-VARINA, NC

SHARON DIXON-THIBODEAUX RESIDENCE

DRAWN BY **ESR**

SHEET NAME

LABELS

SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER PV-8

MSE PERC 66





-0 to +3% Class leading power output



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





UL 61730 / IEC 61215 / IEC 61730 / IEC 61701



If you have questions or concerns about certification of our products in your area,

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

- 9 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

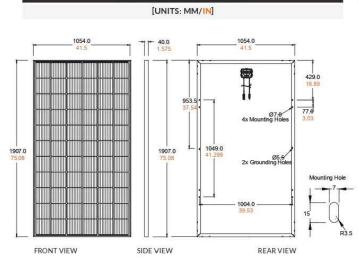
- Buy American Act
- American Recovery & Reinvestment Act





www.missionsolar.com | info@missionsolar.com

Class Leading 390-400W

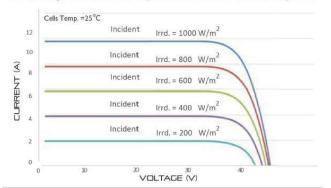


BASIC DIMENSIONS

CURRENT-VOLTAGE CURVE

MSE385SX9R: 385WP, 66 CELL SOLAR MODULE

Current-voltage characteristics with dependence on irradiance and module temperature



CERTIFICATIO	CERTIFICATIONS AND TESTS					
IEC	61215, 61730, 61701					
UL	61730					







Mission Solar Energy

8303 S. New Braunfels Ave., San Antonio, Texas 78235 www.missionsolar.com | info@missionsolar.com

Mission Solar Energy reserves the right to make specification changes without notice. C-SA2-MKTG-0027 REV 4 03/18/2022

MSE PERC 66

PRODUCT TYPE	MSE	xxx SX	9R (xxx = P	max)	
Power Output	P _{max}	W_p	390	395	400
Module Efficiency		%	19.4	19.7	19.9
Tolerance		%	0/+3	0/+3	0/+3
Short Circuit Current	İsc	Α	11.19	11.24	11.31
Open Circuit Voltage	Voc	V	45.04	45.18	45.33
Rated Current	Imp	Α	10.63	10.68	10.79
Rated Voltage	Vmp	V	36.68	36.99	37.07
Fuse Rating		Α	20	20	20
System Voltage		V	1,000	1,000	1,000

TEMPERATURE COEFFICIENTS				
Normal Operating Cell Temperature (NOCT)	43.75°C (±3.7%)			
Temperature Coefficient of Pmax	-0.367%/°C			
Temperature Coefficient of Voc	-0.259%/°C			
Temperature Coefficient of Isc	0.033%/°C			

OPERATIN	S CONDITIONS
Maximum System Voltage	1,000Vdc
Operating Temperature Range	-40°F to 185°F (-40°C to +85°C)
Maximum Series Fuse Rating	20A
Fire Safety Classification	Type 1*
Front & Back Load (UL Standard)	Up to 5,400 Pa front and 3,600 Pa back load, Tested to UL 61730
Hail Safety Impact Velocity	25mm at 23 m/s

*Mission Solar Energy uses quality sourced materials that result in a Type 1 fire roting. Please note, the 'Fire Class' Rating is designated for the fully-installed PV system, which includes, but is not limited to, the module, the type of mounting used, pitch and roof composition.

ME	CHANICAL DATA
Solar Cells	P-type mono-crystalline silicon
Cell Orientation	66 cells (6x11)
Module Dimension	1,907mm x 1,054mm x 40mm
Weight	48.5 lbs. (22 kg)
Front Glass	3.2mm tempered, low-iron, anti-reflective
Frame	40mm Anodized
Encapsulant	Ethylene vinyl acetate (EVA)
Junction Box	Protection class IP67 with 3 bypass-diodes
Cable	1.2m, Wire 4mm2 (12AWG)
Connector	Staubli PV-KBT4/6II-UR and PV-KST4/6II-UR, MC4, Renhe 05-8

Container Feet	Ship To	Pallet	Panels	390W Bin
53'	Most States	30	780	304.20 kW
Double Stack	CA	26	676	263.64 kW
	PALLE	T [26 PAN	IELS]	
Weight 1,300 lbs. (572 kg)	Height 47.56 in (120.80 cm) (1	Width 46 in 16.84 cm)	Length 77 in (195,58 cm

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TOP TIER SOLAR SOLUTIONS

1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, **UNITED STATES**

REVISIONS					
DESCRIPTION	DATE	REV			
INITIAL DESIGN	04/19/2023				

PROJECT NAME & ADDRESS

27526 DIXON-THIBODEAUX RESIDENCE 60 AARON DR, FUQUAY-VARINA, NC

> DRAWN BY **ESR**

SHEET NAME **EQUIPMENT SPECIFICATION**

> SHEET SIZE ANSI B

11" X 17"

SHEET NUMBER

PV-9

C-SA2-MKTG-0027 REV 4 03/18/2022

Power Optimizer For Residential Installations

S440, S500



Enabling PV power optimization at the module level

- Specifically designed to work with SolarEdge residential inverters
- Detects abnormal PV connector behavior, preventing potential safety issues*
- Module-level voltage shutdown for installer and firefighter safety
- Superior efficiency (99.5%)

- / Mitigates all types of module mismatch loss, from manufacturing tolerance to partial shading
- Faster installations with simplified cable management and easy assembly using a single bolt
- Flexible system design for maximum space utilization
- ✓ Compatible with bifacial PV modules



/ Power Optimizer For Residential Installations S440, S500

	S440	S500	UNIT
	<u> </u>		
Rated Input DC Power ⁽¹⁾	440	500	W
Absolute Maximum Input Voltage (Voc)	6	0	Vdc
MPPT Operating Range	8 -	60	Vdc
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5	15	Adc
Maximum Efficiency	99	.5	%
Weighted Efficiency	98	.6	%
Overvoltage Category		[
OUTPUT DURING OPERATION			
Maximum Output Current	1	5	Adc
Maximum Output Voltage	6	0	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER	DISCONNECTED FROM INVERTER OR	INVERTER OFF)	-
Safety Output Voltage per Power Optimizer			Vdc
STANDARD COMPLIANCE			
EMC	FCC Part 15 Class B, IEC61000-6-2	, IEC61000-6-3, CISPR11, EN-55011	
Safety	IEC62109-1 (class	II safety), UL1741	
Material	UL94 V-0, U	IV Resistant	
RoHS	Y	es	
Fire Safety	VDE-AR-E 210	0-712:2013-05	
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage	10	00	Vdc
Dimensions (W x L x H)	129 x 1.	55 x 30	mm
Weight (including cables)	655	/ 1.5	gr/lb
Input Connector	MC	(42)	
Input Wire Length	0	1	m
Output Connector	M	24	
Output Wire Length	(+) 2.3,	(-) 0.10	m
Operating Temperature Range ⁽³⁾	-40 to	+85	°C
Protection Rating	IP68 / N	EMA6P	
Relative Humidity	0 -	100	%

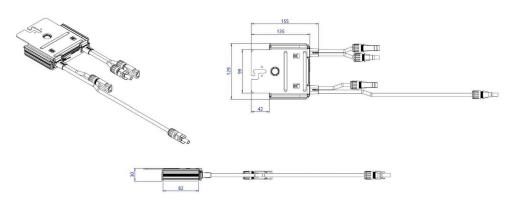
(1) Rated power of the module at STC will not exceed the Power Optimizer Rated Input DC Power. Modules with up to +5% power tolerance are allowed

(3) For ambient temperature above +70°C / +158°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details

PV System Design Usi Inverter	ng a SolarEdge	Single Phase HD-Wave	Three Phase	Three Phase for 277/480V Grid	
Minimum String Length (Power Optimizers)	S440, S500	8	16	18	
Maximum String Length (Powe	er Optimizers)	25		50	
Maximum Nominal Power per String ⁽⁴⁾		5700	11250 ⁽⁵⁾ 12750 ⁽⁶⁾		W
Parallel Strings of Different Len	agths or Orientations		Yes		

(4) If the inverters rated AC power s maximum nominal power per string, then the maximum power per string will be able to reach up to the inverters maximum input DC power Refer to: https://www.solaredge.com/sites/default/files/se-power-optimizer-single-string-design-application-note.pdf
(5) For the 230/400V grid: it is allowed to install up to 13,500W per string when the maximum power difference between each string is 2,000W

(6) For the 277/480V grid: it is allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W (7) It is not allowed to mix S-series and P-series Power Optimizers in new installations



CE RoHS

TOP TIER SOLAR SOLUTIONS

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^{*} Functionality subject to inverter model and firmware version

Single Phase Inverter with HD-Wave Technology

for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US





Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking efficiency
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for
 Optional: Revenue grade data, ANSI C12.20 NEC 2014 and 2017, per article 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance

- Extremely small
- Built-in module-level monitoring
- Outdoor and indoor installation
- Class 0.5 (0.5% accuracy)



solaredge.com

/ Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
OUTPUT								
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
AC Output Voltage MinNomMax. (211 - 240 - 264)	✓	✓	√	✓	√	✓	✓	Va
AC Output Voltage MinNomMax. (183 - 208 - 229)	-	✓	-	√	-	-	✓	Va
AC Frequency (Nominal)				59.3 - 60 - 60.5 ⁽¹⁾				Н
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	1
Maximum Continuous Output Current @208V	-	16	-	24		-	48.5	1
GFDI Threshold		I	"	1		1	1	,
Utility Monitoring, Islanding Protection, Country Configurable Thresholds				Yes				
INPUT								
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	V
Maximum DC Power @208V		5100	=	7750	-	-	15500	V
Transformer-less, Ungrounded			1	Yes		1		
Maximum Input Voltage				480				V
Nominal DC Input Voltage		3	80			400		V
Maximum Input Current @240V ⁽²⁾	8.5	10.5	13.5	16.5	20	27	30.5	А
Maximum Input Current @208V ⁽²⁾	FI	9	-	13.5	-	-	27	А
Max. Input Short Circuit Current		45						А
Reverse-Polarity Protection		Yes						
Ground-Fault Isolation Detection		600k a Sensitivity						
Maximum Inverter Efficiency	99 99.2							
CEC Weighted Efficiency			Ğ	99			99 @ 240V 98.5 @ 208V	(
Nighttime Power Consumption				< 2.5				1
ADDITIONAL FEATURES								
Supported Communication Interfaces			RS485, Etherne	t, ZigBee (optional), C	Cellular (optional)			
Revenue Grade Data, ANSI C12.20				Optional ⁽³⁾				
Rapid Shutdown - NEC 2014 and 2017 690.12			Automatic Rapi	d Shutdown upon AC	Grid Disconnect			
STANDARD COMPLIANCE								
Safety		UL1741	, UL1741 SA, UL1699B,	CSA C22.2, Canadiar	AFCI according to T.	I.L. M-07		
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)							
Emissions				FCC Part 15 Class B				
INSTALLATION SPECIFICATION	ONS							
AC Output Conduit Size / AWG Range		1	* Maximum / 14-6 AW	/G		1" Maximur	n /14-4 AWG	
DC Input Conduit Size / # of Strings / AWG Range		1" Maxii	mum / 1-2 strings / 14	-6 AWG		1" Maximum / 1-3	strings / 14-6 AWG	
Dimensions with Safety Switch (HxWxD)		17.7 x	14.6 x 6.8 / 450 x 37	0 x 174		21.3 x 14.6 x 7.3	/ 540 x 370 x 185	ir m
Weight with Safety Switch	22	/ 10	25.1 / 11.4	26.2	/ 11.9	38.8	/ 17.6	lb,
Noise		<	25			<50		dl
Cooling				Natural Convection				
Operating Temperature Range			-13 to +140 /	-25 to +60 ⁽⁴⁾ (-40°F/	-40°C option) ⁽⁵⁾			°F,
Protection Rating			NEMA -	4X (Inverter with Safet	v Switch)			

□ For other regional settings please contact SolarEdge support
□ A higher current source may be used; the inverter will limit its input current to the values stated
□ Revenue grade inverter P/N: SExxxx4-USXXXXXXXXXXXX

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RoHS

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ANSI B 11" X 17"

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 $[\]dot{\vec{r}} \ de-rating \ information \ refer \ to: \ https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf$

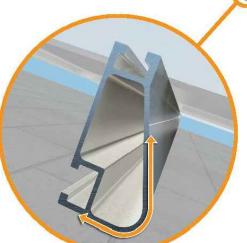


XR Rail Family

Solar Is Not Always Sunny

Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing enough to buckle a panel frame.

XR Rails are the structural backbone preventing these results. They resist uplift, protect against buckling and safely and efficiently transfer loads into the building structure. Their superior spanning capability requires fewer roof attachments, reducing the number of roof penetrations and the amount of installation time.



Force-Stabilizing Curve

Sloped roofs generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime.

Compatible with Flat & Pitched Roofs



XR Rails are compatible with FlashFoot and other pitched roof



IronRidge offers a range of tilt leg options for flat roof mounting applications.

Corrosion-Resistant Materials

All XR Rails are made of 6000-series aluminum alloy, then protected with an anodized finish. Anodizing prevents surface and structural corrosion, while also providing a more attractive appearance.



XR Rail Family

The XR Rail Family offers the strength of a curved rail in three targeted sizes. Each size supports specific design loads, while minimizing material costs. Depending on your location, there is an XR Rail to match.



XR10

XR10 is a sleek, low-profile mounting rail, designed for regions with light or no snow. It achieves spans up to 6 feet, while remaining light and economical.

- · 6' spanning capability
- Moderate load capability
- · Clear & black anodized finish
- Internal splices available



XR100

XR100 is the ultimate residential mounting rail. It supports a range of wind and snow conditions, while also maximizing spans up to 10 feet.

- · 10' spanning capability
- · Heavy load capability
- Clear & black anodized finish
 Internal splices available



XR1000

XR1000 is a heavyweight among solar mounting rails. It's built to handle extreme climates and spans up to 12 feet for commercial applications.

- 12' spanning capability
- Extreme load capability
- Clear anodized finish
- Internal splices available

Rail Selection

The table below was prepared in compliance with applicable engineering codes and standards.* Values are based on the following criteria: ASCE 7-16, Gable Roof Flush Mount, Roof Zones 1 & 2e, Exposure B, Roof Slope of 8 to 20 degrees and Mean Building Height of 30 ft. Visit IronRidge.com for detailed certification letters.

Load		Rail Span						
Snow (PSF)	Wind (MPH)	4)	5' 4"	6'	8'	10'	12'	
None	90							
	120							
	140	XR10		XR100		XR1000		
	160							
20	90							
	120							
	140							
	160							
30	90							
	160							
40	90							
	160							
80	160							
120	160							

*Table is meant to be a simplified span chart for conveying general rail capabilities. Use approved certification letters for actual design guidance.

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SPECIFICATION

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ANSI B 11" X 17"

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Ground Mount System



Mount on all terrains, in no time.

The IronRidge Ground Mount System combines our XR1000 rails with locally-sourced steel pipes, or mechanical tubing, to create a cost-effective structure capable of handling any site or terrain challenge.

Installation is simple with only a few structural components and no drilling, welding, or heavy machinery required. In addition, the system works with a variety of foundation options, including concrete piers and driven piles.



Rugged Construction

Engineered steel and aluminum components ensure durability.



Simple Assembly

Just a few simple components and no heavy equipment.



Flexible Architecture

Multiple foundation and array configuration options.



PE Certified

Pre-stamped engineering letters available in most states.



Design Software

Online tool generates engineering values and bill of materials.



20 Year Warranty

Twice the protection offered by competitors.



Top Caps



Connect vertical and cross pipes.

3

Rail Connectors

Attach Rail Assembly to horizontal pipes.

Diagonal Braces



Optional Brace provides additional support.

Cross Pipe & Piers



Steel pipes or mechanical tubing for substructure.

Rail Assembly

XR1000 Rails



Curved rails increase spanning capabilities.

Top-Down Clamps



Secure modules to rails and substructure.

Under Clamps



Alternative clamps for preattaching modules to rails.

Accessories



Wire Clips and End Caps provide a finished look.

Resources



Design Assistant Go from rough layout to fully

engineered system. For free.

Go to ironridge.com/gm

NABCEP Certified Training

Earn free continuing education credits, while learning more about our systems.

Go to ironridge.com/training

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TOP TIER

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