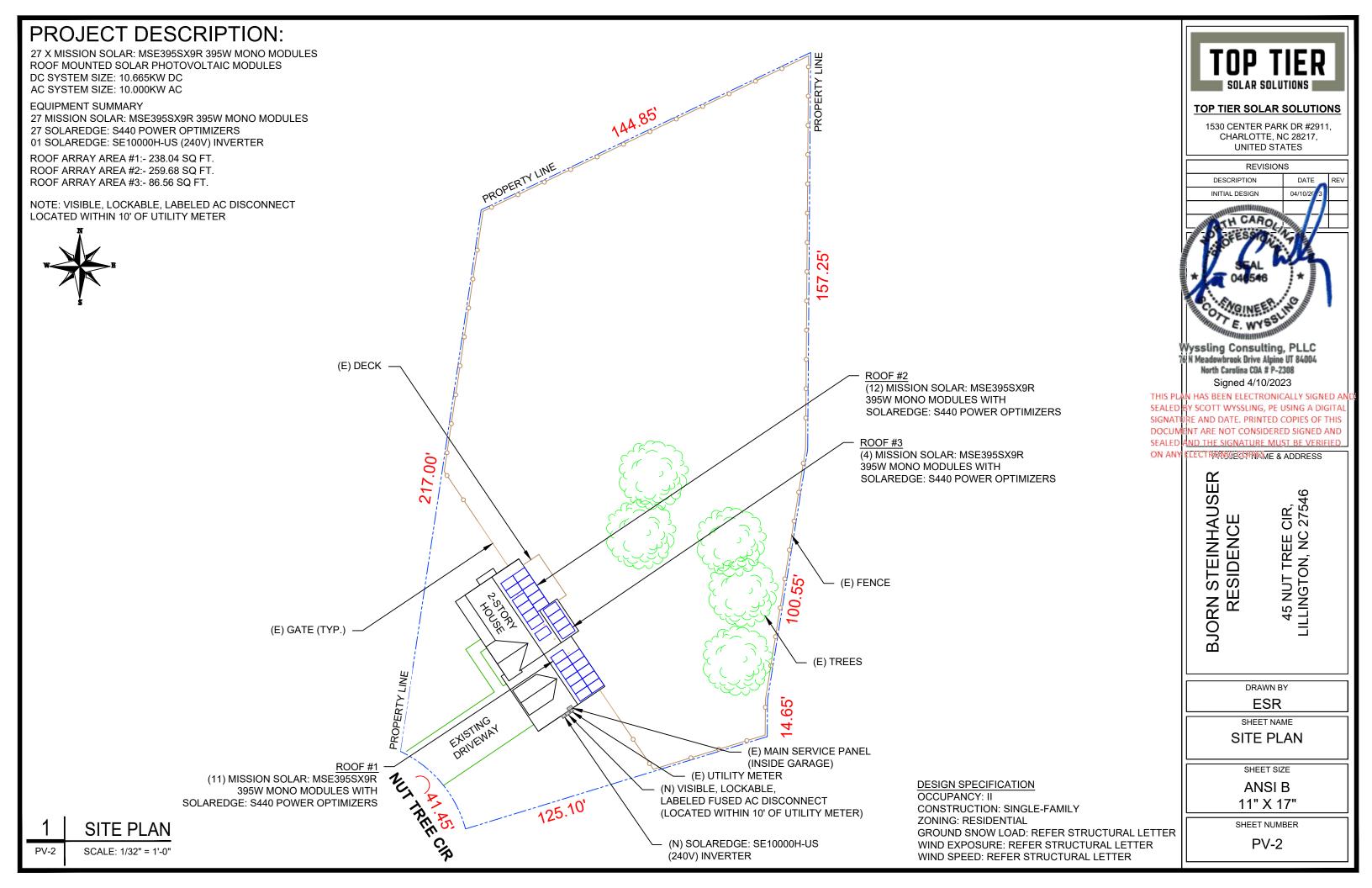
PHOTOVOLTAIC ROOF MOUNT SYSTEM

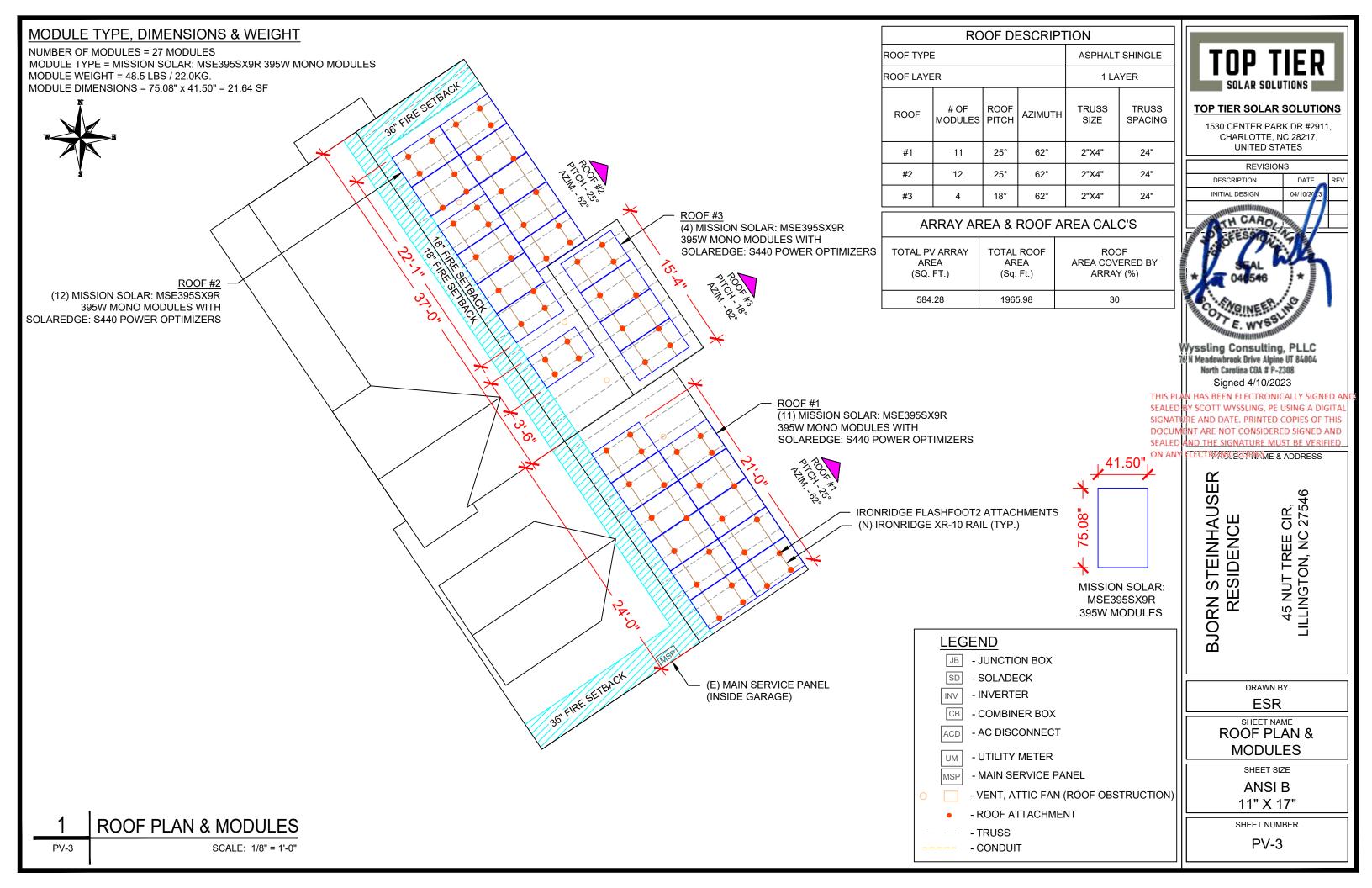
27 MODULES-ROOF MOUNTED - 10.665 KW DC, 10.000 KW AC

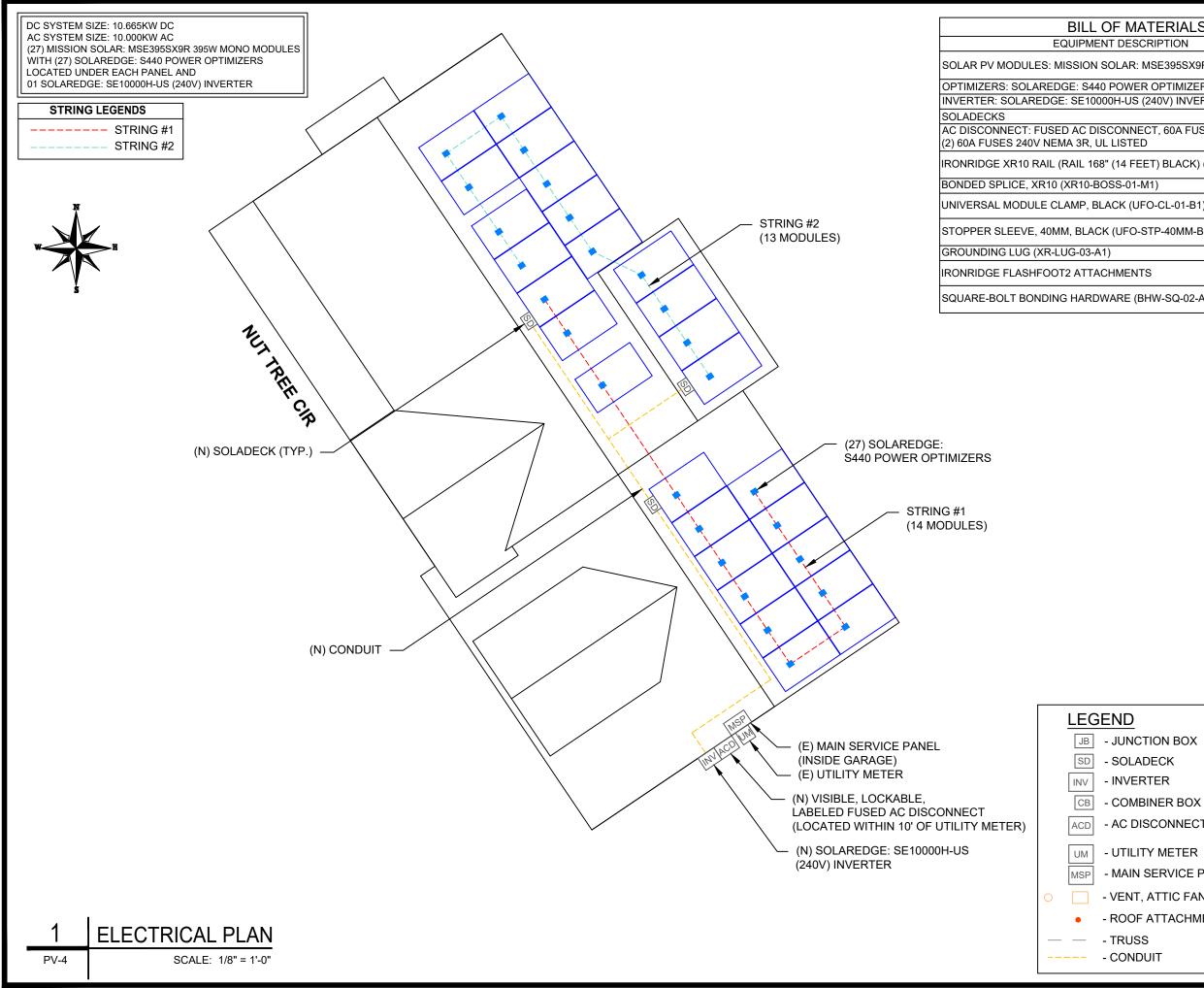
45 NUT TREE CIR, LILLINGTON, NC 27546

PROJECT DATA	GENERAL NOTES	VICI
PROJECT DATAPROJECT45 NUT TREE CIR, ADDRESSADDRESSLILLINGTON, NC 27546OWNER:BJORN STEINHAUSERDESIGNER:ESRSCOPE:10.665 KW DC ROOF MOUNT SOLAR PV SYSTEM WITH 27 MISSION SOLAR: MSE395SX9R 395W PV MODULES WITH 27 SOLAREDGE: S440 POWER OPTIMIZERS AND 01 SOLAREDGE: SE10000H-US (240V) INVERTERAUTHORITIES HAVING JURISDICTION: BUILDING: HARNETT COUNTY ZONING: HARNETT COUNTY UTILITY: SOUTH RIVER ELECTRIC	 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 INACCOESSIBLE OF INADEQUATE A SUPPLEMENTAL GROUNDING ELECTRODE WILL BE USED AND DL DARGER THAN #6 AWG COPPER AND BONDED TO THE SERVICE CONDUCTORS SHALL BE NO LARGER THAN #6 AWG COPPER AND BONDED TO THE EXISTING GROUNDING ELECTRODE ON ON LARGER THAN #6 AWG COPPER AND BONDED TO THE EXISTING GROUNDING ELECTRODE TO A COMPLETE SYSTEM. PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING. MECHANICAL, OR BUILDING ROOF VENTS. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL, MEANS DESIGNED AND LISTED FOR SUCH USE. WIRING MUST BE PROMPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. WIRING MUST BE PROMPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL, OR BUILDING ROOF VENTS. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. WIRING MUST BE PROMAPERLY AND COMPLETELY HELD OFF THE ROOF SURRA	VICI cue mville 45 Nut Tree Cir, Lillington, NC 275- United States Spring Lake HOU
SHEET INDEX PV-1 COVER SHEET PV-2 SITE PLAN PV-3 ROOF PLAN & MODULES PV-4 ELECTRICAL PLAN PV-5 STRUCTURAL DETAIL PV-6 ELECTRICAL LINE DIAGRAM PV-7 WIRING CALCULATIONS PV-8 LABELS PV-10+ EQUIPMENT SPECIFICATIONS	 WIRING MUST BE PERMANENTLY AND COMPLETELY HELD OFF THE ROOF SURFACE. 11. 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 SWITCHES. 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 690.31 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 UL1703 	CODE F 2018 NORTH CAROLIN 2018 NORTH CAROLIN 2018 NORTH CAROLIN 2017 NATIONAL ELECT









TERIALS	
RIPTION	QTY
MSE395SX9R 395W MODULE	27
ROPTIMIZERS	27
240V) INVERTER	01
	3
CT, 60A FUSED,)	1
ET) BLACK) (XR-10-168B)	24
<i>M</i> 1)	10
O-CL-01-B1)	68
STP-40MM-B1)	28
	7
S	63
HW-SQ-02-A1)	63



TOP TIER SOLAR SOLUTIONS

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

REVISIONS							
DESCRIPTION	DATE	REV					
INITIAL DESIGN	04/10/2023						

PROJECT NAME & ADDRESS

45 NUT TREE CIR, LILLINGTON, NC 27546

KN STEINHAUSER RESIDENCE BJORN

- AC DISCONNECT
- UTILITY METER
- MAIN SERVICE PANEL
- VENT, ATTIC FAN (ROOF OBSTRUCTION)
- ROOF ATTACHMENT

11" X 17" SHEET NUMBER

DRAWN BY

ESR

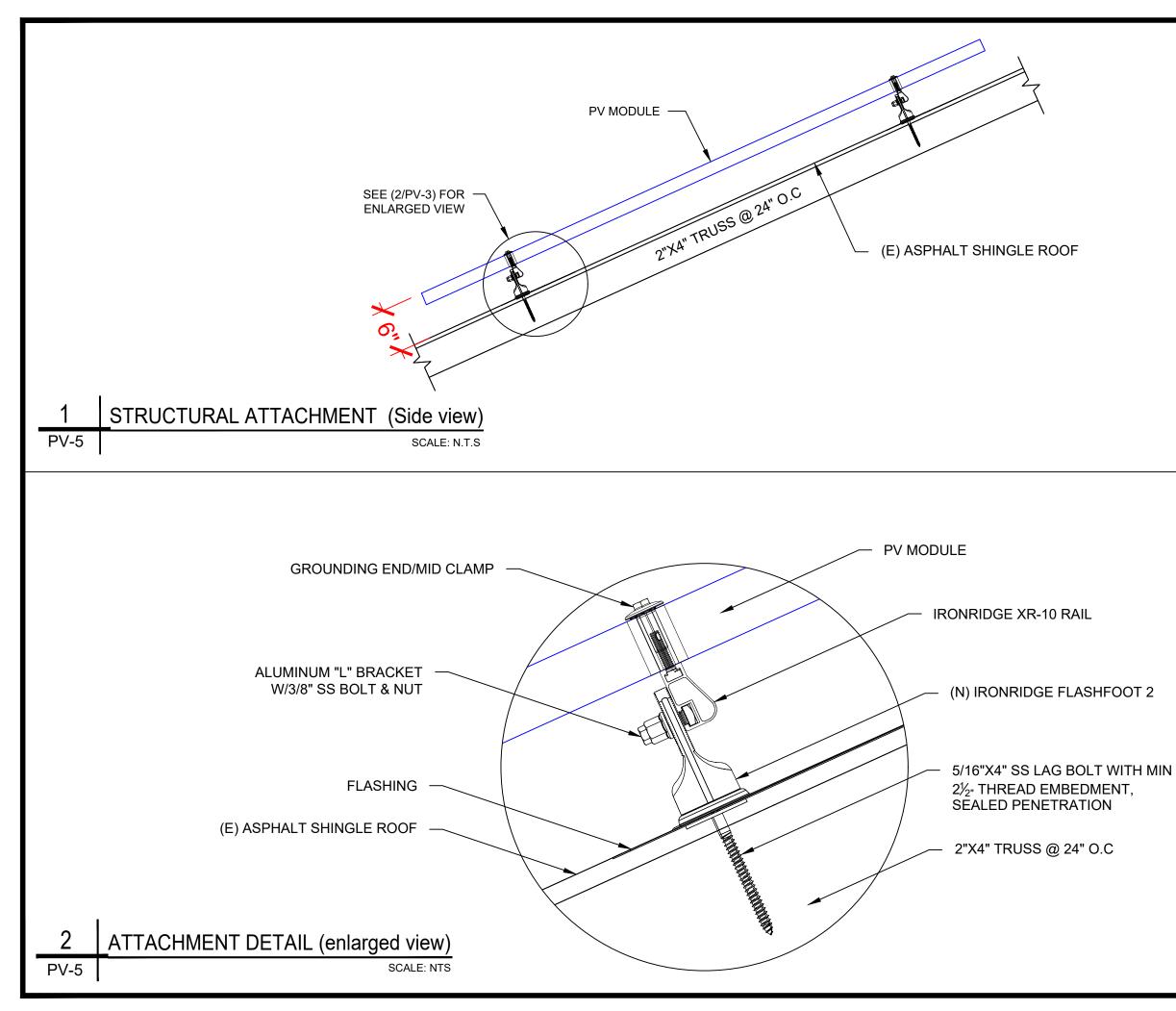
SHEET NAME

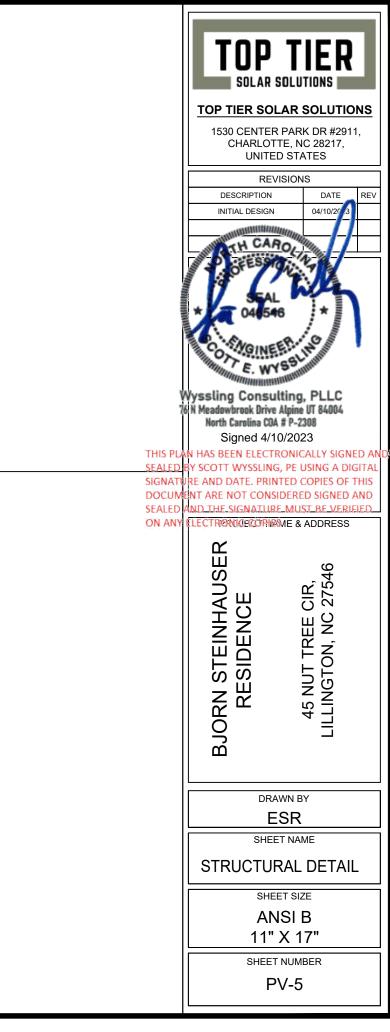
SHEET SIZE

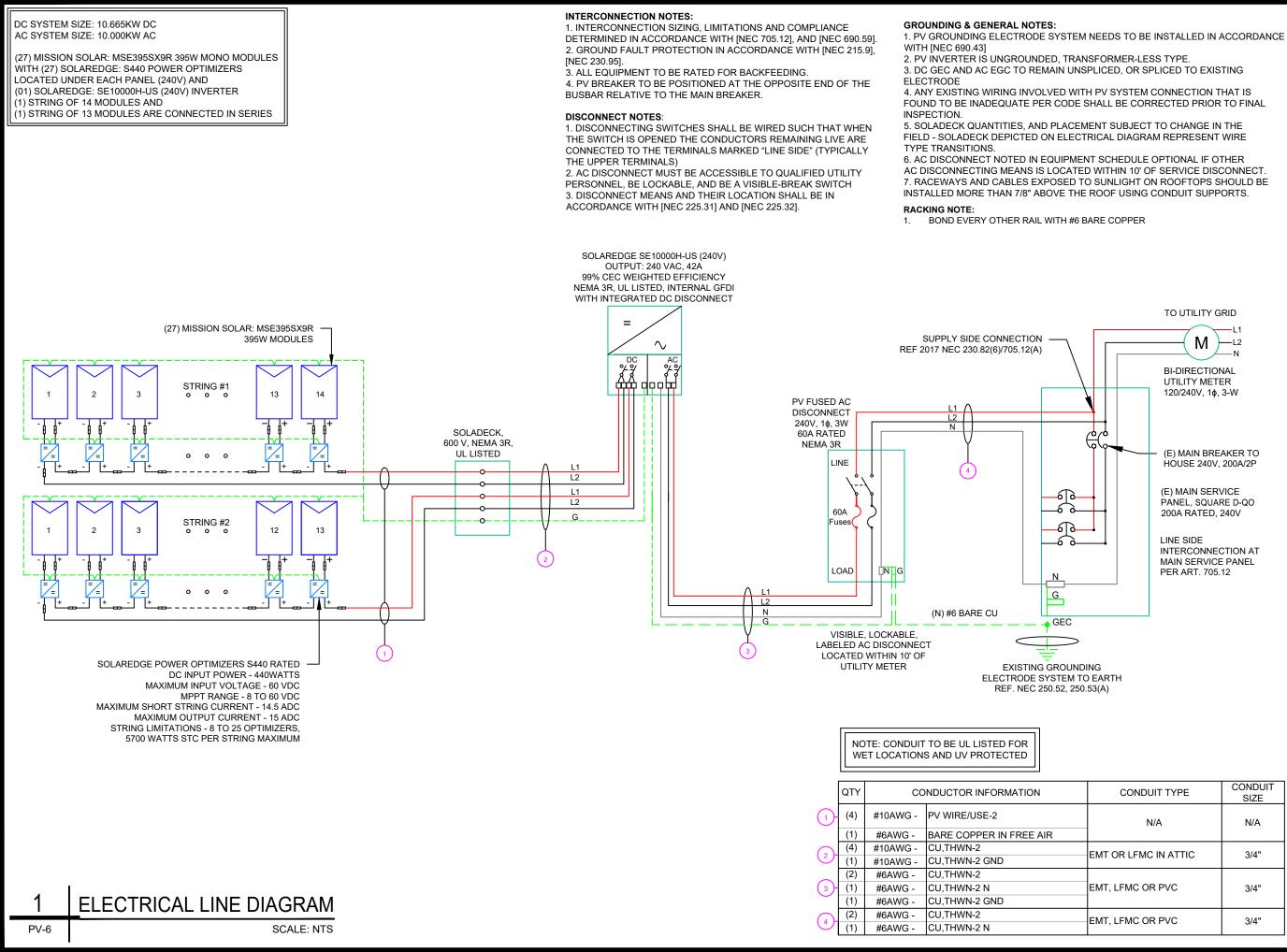
ANSI B

ELECTRICAL PLAN

PV-4







TOP TIER SOLAR SOLUTIONS TOP TIER SOLAR SOLUTIONS 1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES REVISIONS DESCRIPTION DATE REV INITIAL DESIGN 04/10/2023 TO UTILITY GRID Μ —L2 **BI-DIRECTIONAL** UTILITY METER 120/240V, 1¢, 3-W (E) MAIN BREAKER TO HOUSE 240V, 200A/2P **PROJECT NAME & ADDRESS** (E) MAIN SERVICE PÁNEL, SQUARE D-QO 200A RATED, 240V Υ STEINHAUSE CIR, 27546 LINE SIDE INTERCONNECTION AT MAIN SERVICE PANEL RESIDENC PER ART. 705.12 45 NUT TREE LILLINGTON, NC BJORN DRAWN BY ESR SHEET NAME CONDUIT CONDUIT TYPE SIZE ELECTRICAL LINE DIAGRAM N/A N/A SHEET SIZE EMT OR LFMC IN ATTIC 3/4" ANSI B 11" X 17" EMT, LFMC OR PVC 3/4" SHEET NUMBER EMT, LFMC OR PVC PV-6 3/4"

SOLAR M	IODULE SPECIFICATIONS		INVERTER	R SPECIFICATIONS		AMBIENT TEMPERATURE SPEC	S
MANUFACTURER / MODEL #	MISSION SOLAR: MSE395SX9R 395W MODULE	MANUFACTURER	MODEL #	SOLAREDGE: SE10000H INVERTER	1-US (240V)	RECORD LOW TEMP AMBIENT TEMP (HIGH TEMP 2%)	-11° 38°
		NOMINAL AC POW	ER	10.000KW		MODULE TEMPERATURE COEFFICIENT OF Voc	-0.259%/°C
		NOMINAL OUTPUT	VOLTAGE	240 VAC			
VMP	36.99V	NOMINAL OUTPUT	CURRENT	42A			
IMP	10.68A		CONTREIN	1273			
VOC	45.18V	PERCENT OF	NUMBE	R OF CURRENT			
ISC	11.24A	VALUES	CARRYING C	CONDUCTORS IN EMT			
TEMP. COEFF. VOC	-0.259%/°C	.80		4-6			
		.70		7-9	1		
MODULE DIMENSION	75.08"L x 41.50"W x 1.57"D (In Inch)	.50		10-20	1		

										AC FEEDE	R CALCULAT	IONS						
CIRCUIT ORIGIN	CIRCUIT	IVOLTAGE I	FULL LOAD AMPS "FLA" (A)	FLA*1.25 (A)	OCPD SIZE (A)	NEUTRAL SIZE	GROUND SIZE	CONDUCTOR SIZE	75℃ AMPACITY (A)	AMPACITY CHECK #1	AMBIENT TEMP. (°C)	TOTAL CC CONDUCTORS IN RACEWAY	90°C AMPACITY (A)	DERATION FACTOR FOR AMBIENT TEMPERATURE NEC 310.15(B)(2)(a)	FOR CONDUCTORS	AMPACITY	AMPACITY CHECK #2	FEEDER LENGTH (FEET)
INVERTER 1	AC DISCONNECT	240	42	52.5	60	CU #6 AWG	CU #6 AWG	CU #6 AWG	65	PASS	38	2	75	0.91	1	68.25	PASS	5
AC DISCONNECT	POI	240	42	52.5	60	CU #6 AWG	N/A	CU #6 AWG	65	PASS	38	2	75	0.91	1	68.25	PASS	5

CUMUL

									DC	FEEDER CAL	CULATIONS							
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 CONDUCTO RS IN RACEWAY	AMPACITY (A)	FOR AMBIENT	DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a)	90°C AMPACITY DERATED (A)	AMPACITY CHECK #2	FEEDER LENGTH (FEET)	CON RES (Of
STRING 1	SOLADECK	400	15.00	18.75	20	BARE COPPER #6 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	5	
STRING 2	SOLADECK	400	15.00	18.75	20	BARE COPPER #6 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	5	
SOLADECK	INVERTER	400	15.00	18.75	20	CU #10 AWG	CU #10 AWG	35	PASS	38	4	40	0.91	0.8	29.12	PASS	30	

String 1 Vol String 2 Vol

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 ROOFTOPS 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 SOLADECK, 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 LUG.
- 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 TOP TIER SOLAR SOLUTIONS 1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES REVISIONS
	DESCRIPTION DATE REV INITIAL DESIGN 04/10/2023
R H H O CONDUCTOR RESISTANCE (OHM/KFT) VOLTAGE DROP AT FLA (%) CONDUIT SIZE CONDUIT FILL (%)	
0.491 0.086 3/4" EMT 38.0488 0.491 0.086 3/4" EMT 28.5366	
LATIVE VOLTAGE 0.172	
CONDUCTOR RESISTANCE (OHM/KFT)VOLTAGE DROP AT FLA (%)CONDUIT SIZECONDUIT FILL (%)1.240.047N/A#N/A1.240.2793/4" EMT19.79362Datage Drop0.3260.3260.326	BJORN STEINHAUSER RESIDENCE 45 NUT TREE CIR, LILLINGTON, NC 27546
	DRAWN BY ESR
	SHEET NAME
	WIRING CALCULATIONS
	SHEET SIZE
	ANSI B 11" X 17"
	SHEET NUMBER
	PV-7

CAUTION: AUTHORIZED SOLAR **PERSONNEL ONLY!**

LABEL-1: LABEL LOCATION: AC DISCONNECT

WARNING: PHOTOVOLTAIC **POWER SOURCE**

EVERY 10' ON CONDUIT & ENCLOSURES

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

ELECTRIC SHOCK HAZARD

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

LABEL- 3: LABEL LOCATION INVERTER MAIN SERVICE PANEL SUBPANEL MAIN SERVICE DISCONNECT CODE REF: NEC 690.13(B)

MARNING DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

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

TURN OFF PHOTOVOLTAIC AC **DISCONNECT PRIOR TO** WORKING INSIDE PANEL

LABEL- 5: LABEL LOCATION: MAIN SERVICE PANEL SUBPANEL MAIN SERVICE DISCONNECT CODE REF: NEC 110.27(C) & OSHA 1910.145 (f) (7)

> PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFEED

LABEL- 6: LABEL LOCATION: MAIN SERVICE PANEL (ONLY IF SOLAR IS BACK-FED) SUBPANEL (ONLY IF SOLAR IS BACK-FED) CODE REF: NEC 705.12(D) & NEC 690.59

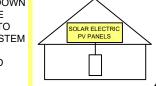
POWER SOURCE OUTPUT CONNECTION. DO NOT **RELOCATE THIS OVERCURRENT DEVICE**

LABEL- 7: LAB<u>EL LOCATION:</u>

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 OLAR ELECTR SHUT DOWN PV SYSTEM PV PANELS

AND REDUCE SHOCK HAZARD IN THE ARRAY



LABEL- 8: LABEL LOCATION: AC DISCONNECT CODE REF: [NEC 690.56(C)(1)(A)]

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL- 9: LABEL LOCATION: AC DISCONNECT CODE REF: NEC 690.56(C)(2)

PHOTOVOLTAIC

AC DISCONNECT

LABEL- 10: LABEL LOCATION: AC DISCONNECT CODE REF: NEC 690.13(B)

PHOTOVOLTAIC

DC DISCONNECT

LABEL- 11: LABEL LOCATION: INVERTER CODE REF: NEC 690.13(B)

PHOTOVOLTAIC AC DISCONNECT

240 V

42.00 A

NOMINAL OPERATING AC VOLATGE

RATED AC OUTPUT CURRENT

LABEL- 12:

LABEL LOCATION: MAIN SERVICE PANEL SUBPANEL AC DISCONNECT CODE REF: NEC 690.54

INVERTER **AC DISCONNECT**

NOMINAL OPERATING AC VOLATGE 240 V RATED AC OUTPUT CURRENT 42.00 A

LABEL- 13: LABEL LOCATION: INVERTER CODE REF: NEC 690.54

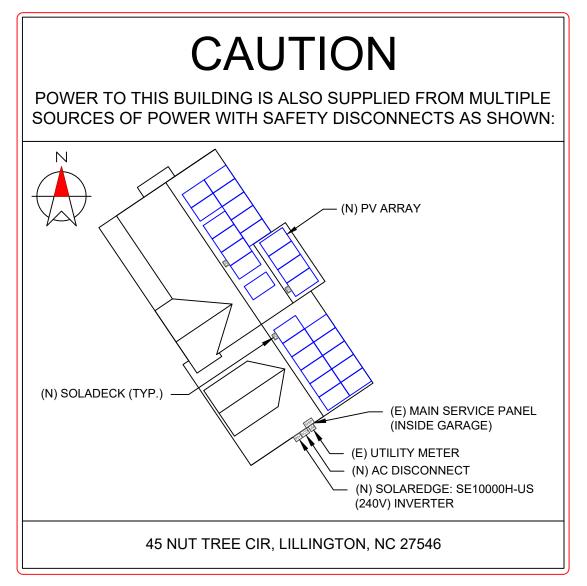
MAXIMUM VOLTAGE	480 V
MAXIMUM CIRCUIT CURRENT	27.0 A
MAXIMUM RATED OUTPUT CURRENT OF THE CHARGE	
CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED)	

LABEL- 14: LABEL LOCATION: INVERTER CODE REF: NEC 690.53

MAIN PHOTOVOLTAIC SYSTEM DISCONNECT

LABEL- 15: LABEL LOCATION: MAIN SERVICE DISCONNECT (ONLY IF MAIN SERVICE DISCONNECT IS PRESENT) CODE REF: NEC 690.13(B)

SOLAR S	TIER OLUTIONS AR SOLUTIONS
CHARLOTT	PARK DR #2911, E, NC 28217, STATES
REVI	SIONS
DESCRIPTION	DATE REV
INITIAL DESIGN	04/10/2023
BJORN STEINHAUSER RESIDENCE	45 NUT TREE CIR, LILLINGTON, NC 27546
	VN BY SR
SHEE	Γ NAME
LAB	ELS
AN 11"2	t size SI B X 17"
SHEET P\	NUMBER /-8



DIRECTORY

PERMANENT PLAQUE OR DIRECTORY PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM.

(ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS OUTLINED WITHIN: NEC 690.56(B)&(C), [NEC 705.10]) [NEC 690.56(C)(1)(A)]

LABELING NOTES:

- 1. LABELS CALLED OUT ACCORDING TO ALL COMMON CONFIGURATIONS. ELECTRICIAN TO DETERMINE EXACT REQUIREMENTS IN THE FIELD PER CURRENT NEC AND LOCAL CODES AND MAKE APPROPRIATE ADJUSTMENTS.
- 2. LABELING REQUIREMENTS BASED ON THE 2017 NATIONAL ELECTRIC CODE, OSHA STANDARD 19010.145, ANSI Z535.
- 3. MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- 4. LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED [NEC 110.21]
- 5. LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8", WHITE ON RED BACKGROUND; REFLECTIVE, AND PERMANENTLY

AFFIXED [NEC 690.56(C)(1)(A)].

TOP TIER SOLAR SOLUTIONS SULAR SOLUTIONS TOP TIER SOLAR SOLUTIONS TSID CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES REVISIONS DESCRIPTION DATE INTIAL DESIGN OM/10/2023 DESCRIPTION DATE PROJECT NAME & ADDRESS SHEET NAME & ADDRESS DISO ON 'NOLDENTI' ON 'NOLDENTI' DRAWN BY SHEET NAME PLACARD SHEET SIZE ANSI B SHEET NUMBER PV-9			
1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES REVISIONS DESCRIPTION DATE NUTED STATES DESCRIPTION DATE INITIAL DESIGN DESCRIPTION DATE INITIAL DESIGN OU/10/2023 DESCRIPTION DATE REVISIONS PROJECT NAME & ADDRESS ADDENDES YERT NAME & ADDRESS NOL 100 97 ON 'NO 500' DRAWN BY ESR SHEET NAME PLACARD SHEET SIZE ANSI B SHEET NUMBER			
1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES REVISIONS DESCRIPTION DATE NUTED STATES DESCRIPTION DATE INITIAL DESIGN DESCRIPTION DATE INITIAL DESIGN OU/10/2023 DESCRIPTION DATE REVISIONS PROJECT NAME & ADDRESS ADDENDES YERT NAME & ADDRESS NOL 100 97 ON 'NO 500' DRAWN BY ESR SHEET NAME PLACARD SHEET SIZE ANSI B SHEET NUMBER	TOP TIER SOLAR	SOLUTIO	NS
CHARLOTTE, NC 28217, UNITED STATES			
REVISIONS DESCRIPTION DATE REV INITIAL DESIGN 04/10/2023 DESCRIPTION 04/10/2023 DESCRIPTION 04/10/2023 DESCRIPTION 04/10/2023 DESCRIPTION 04/10/2023 DESCRIPTION 04/10/2023 PROJECT NAME & ADDRESS SHEIT NAME & ADDRESS SHEET NAME PLACARD SHEET NAME PLACARD SHEET SIZE ANSI B 11" X 17" SHEET NUMBER			
DESCRIPTION DATE REV INITIAL DESIGN 04/10/2023			
INITIAL DESIGN 04/10/2023			REV
BOGRN STEINHAUSER BJ1" X 17" SHEET NUMBER			
BOGRN STEINHAUSER BJ1" X 17" SHEET NUMBER			
BOGRN STEINHAUSER BJ1" X 17" SHEET NUMBER			
SHEET NAME PLACARD SHEET SIZE ANSI B 11" X 17" SHEET NUMBER	BJORN STEINHAUSER RESIDENCE	45 NUT TREE CIR, LILLINGTON, NC 27546	
PLACARD SHEET SIZE ANSI B 11" X 17" SHEET NUMBER	ESR		
ANSI B 11" X 17" SHEET NUMBER			
11" X 17" SHEET NUMBER	SHEET SIZ	ZE	
SHEET NUMBER			

MSE PERC 66







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



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

UL 61730 / IEC 61215 / IEC 61730 / IEC 61701

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

True American Quality True American Brand

MISSION SOLAR

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

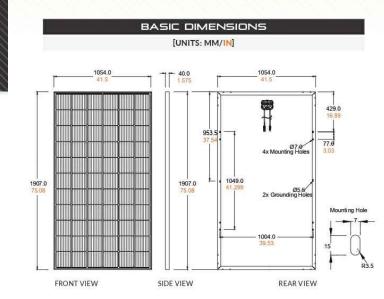
- 9 Bushar
- Passivated Emitter Rear Contact Ideal for all applications

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

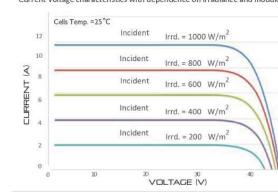


Class Leading 390-400W



CURRENT-VOLTAGE CURVE MSE3855X9R: 385WP, 66 CELL SOLAR MODULE

Current-voltage characteristics with dependence on irradiance and module temperature



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

PRODUCT TYPE	MSE	xxxSX	9R (<mark>×××</mark> = P	'max)	
Power Output	Pmax	Wp	390	395	400
Module Efficiency		%	19.4	19.7	19.9
Tolerance		%	0/+3	0/+3	0/+3
Short Circuit Current	lsc	А	11.19	11.24	11.31
Open Circuit Voltage	Voc	V	45.04	45.18	45.33
Rated Current	Imp	А	10.63	10.68	10.79
Rated Voltage	Vmp	V	36.68	36.99	37.07
Fuse Rating		А	20	20	20
System Voltage		V	1,000	1,000	1,000

Normal Operating Cell Ten Temperature C Temperature Temperature

OPERAT

Maximum System Volta Operating Temperature Ran Maximum Series Fuse Ratin Fire Safety Classificatio

> Front & Back Loa (UL Standar

Hail Safety Impact Veloci

*Mission Solar Energy uses quality sourced materials that result in a Type 1 fire rating. 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.

Solar Cells Cell Orientation Module Dimension Weight Front Glass Frame Encapsulant Junction Box

1.2m, Wire 4mm2 (12AWG) Cable Staubli PV-KBT4/6II-UR and PV-KST4/6II-UR. Connector MC4, Renhe 05-8

S	HIPPING	INFOF		N
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

www.missionsolar.com | info@missionsolar.com

MSE PERC 66

ELECTRICAL SPECIFICATION

TEMPERATURE COEFFICIENTS

nperature (NOCT)	43.75°C (±3.7%)
oefficient of Pmax	-0.367%/°C
Coefficient of Voc	-0.259%/°C
e Coefficient of Isc	0.033%/°C

IN	5 CONDITIONS
ge	1,000Vdc
ge	-40°F to 185°F (-40°C to +85°C)
ng	20A
on	Type 1*
ad rd)	Up to 5,400 Pa front and 3,600 Pa back load, Tested to UL 61730
ity	25mm at 23 m/s

MECHANICAL DATA

P-type mono-crystalline silicon

66 cells (6x11)

1,907mm x 1,054mm x 40mm

48.5 lbs. (22 kg)

3.2mm tempered, low-iron, anti-reflective

40mm Anodized

Ethylene vinyl acetate (EVA)

Protection class IP67 with 3 bypass-diodes

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TOP TIER SOLAR SOLUTIO

TOP TIER SOLAR SOLUTIONS

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

REVISIONS				
DESCRIPTION	DATE	REV		
INITIAL DESIGN	04/10/2023			

PROJECT NAME & ADDRESS

STEINHAUSER RESIDENCE BJORN

CIR, : 27546 45 NUT TREE C LILLINGTON, NC 2

DRAWN BY

ESR

SHEET NAME EQUIPMENT **SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-10

Power Optimizer For Residential Installations

S440, S500



POWER 0 PTIMIZ フ

Enabling PV power optimization at the module level

- I Specifically designed to work with SolarEdge residential inverters
- J 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

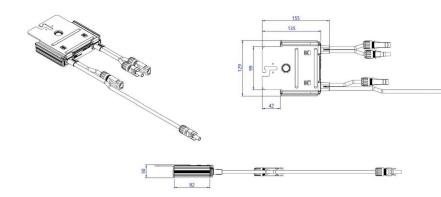
/ Power Optimizer For Residential Installations S440, S500

	S440	S500	UNI
Rated Input DC Power ⁽¹⁾	440	500	W
Absolute Maximum Input Voltage (Voc)	6	0	Vdd
MPPT Operating Range	8 -	60	Vdd
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5	15	Ado
Maximum Efficiency	99	.5	%
Weighted Efficiency	98	.6	%
Overvoltage Category	1	[
OUTPUT DURING OPERATION			
Maximum Output Current	1	5	Ado
Maximum Output Voltage	6	0	Vde
OUTPUT DURING STANDBY (POWER OPTIMIZER DISC	CONNECTED FROM INVERTER OR	INVERTER OFF)	
Safety Output Voltage per Power Optimizer	1		Vd
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, L	IV Resistant	
RoHS	Yes		
Fire Safety	VDE-AR-E 210	0-712:2013-05	
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage	100	00	Vde
Dimensions (W x L x H)	129 x 15	55 x 30	mn
Weight (including cables)	655 .	/ 1.5	gr/
Input Connector	МС	4(2)	
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	%

(a) 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 Using a SolarEdge Inverter		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 (Power C	ptimizers)	25		50	
Maximum Nominal Power per String ⁽⁴⁾		5700	11250(5)	12750(6)	W
Parallel Strings of Different Length	is 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's allowed to install up to 13,500W per string when the maximum power difference between each string is 2,000W
 (6) For the 271/480V grid: it's allowed to install up to 13,500W 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



* Functionality subject to inverter model and firmware version



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solaredge.com



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

REVISIONS				
DESCRIPTION	DATE	REV		
INITIAL DESIGN	04/10/2023			

PROJECT NAME & ADDRESS

RESIDENCE BJORN

45 NUT TREE CIR, LILLINGTON, NC 27546

DRAWN BY

ESR

SHEET NAME

EQUIPMENT

SPECIFICATION

SHEET SIZE

ANSI B

11" X 17"

SHEET NUMBER

PV-11

CE RoHS

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
- solaredge.com

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



INVERTERS

/ 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-U
OUTPUT					
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600
AC Output Voltage MinNomMax. (211 - 240 - 264)	~	~	~	~	~
AC Output Voltage MinNomMax. (183 - 208 - 229)	-	~	-	~	-
AC Frequency (Nominal)				59.3 - 60 - 60.5(1)	
Maximum Continuous Output Current @240V	12.5	16	21	25	32
Maximum Continuous Output Current @208V	-	16	đ	24	-
GFDI Threshold				1	
Utility Monitoring, Islanding Protection, Country Configurable Thresholds				Yes	
INPUT					
Maximum DC Power @240V	4650	5900	7750	9300	11800
Maximum DC Power @208V	-	5100	-	7750	-
Transformer-less, Ungrounded				Yes	
Maximum Input Voltage				480	
Nominal DC Input Voltage		3	80		
Maximum Input Current @240V ⁽²⁾	8.5	10.5	13.5	16.5	20
Maximum Input Current @208V ⁽²⁾		9	-	13.5	-
Max. Input Short Circuit Current			·	45	
Reverse-Polarity Protection				Yes	
Ground-Fault Isolation Detection				600ka Sensitivity	
Maximum Inverter Efficiency	99			99	9.2
CEC Weighted Efficiency			9	99	
Nighttime Power Consumption				< 2.5	
ADDITIONAL FEATURES					
Supported Communication Interfaces			RS485, Etherne	et, ZigBee (optional), C	ellular (optional)
Revenue Grade Data, ANSI C12.20				Optional ⁽³⁾	
Rapid Shutdown - NEC 2014 and 2017 690.12			Automatic Rap	id Shutdown upon AC	Grid Disconnect
STANDARD COMPLIANCE					
Safety		UL1741	, UL1741 SA, UL1699B	, CSA C22.2, Canadian	AFCI according t
Grid Connection Standards			IEE	E1547, Rule 21, Rule 14	(HI)
Emissions				FCC Part 15 Class B	
INSTALLATION SPECIFICATI	ONS				
AC Output Conduit Size / AWG Range		1	" Maximum / 14-6 AW	/G	
DC Input Conduit Size / # of Strings / AWG Range	1" Maximum / 1-2 strings / 14-6 AWG				
Dimensions with Safety Switch (HxWxD)	17.7 x 14.6 x 6.8 / 450 x 370 x 174				
Weight with Safety Switch	22	/ 10	25.1 / 11.4	26.2	/ 11.9
Noise		<	25		
Cooling				Natural Convection	-
Operating Temperature Range			-13 to +140 /	-25 to +60 ⁽⁴⁾ (-40°F/	-40°C option)(5)
Protection Rating			NEMA	4X (Inverter with Safet	y 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/NIS SExxxd+LOSONINC2

For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf

-40 version P/N: SExxxxH-US000NNU4

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2	SE10000H-US	SE11400H-US	
	10000	11400 @ 240V 10000 @ 208V	VA
	10000	11400 @ 240V 10000 @ 208V	VA
	1	~	Vac
	-	~	Vac
			Hz
	42	47.5	A
	-	48.5	A
	1		Α
_	15500	17650	W
	-	15500	W
	1		
_			Vdc
	400		Vdc
	27	30.5	Adc
	-	27	Adc
			Adc
			%
		99 @ 240V 98.5 @ 208V	%
			W
_			
			1
) T.I	I.L. M-07		-
	1" Maximun	n /14-4 AWG	
		strings / 14-6 AWG	
	21.3 x 14.6 x 7.3	/ 540 x 370 x 185	in / mm
	38.8	/ 17.6	lb / k
	38.8 <50	/ 17.6	lb / k dBA

RoHS

TNP

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

	ISION		DEV
DESCRIPTION INITIAL DESIGN		DATE 04/10/2023	REV
		04/10/2020	
ORN STEINHAUSER RESIDENCE		45 NUT TREE CIR, 21 DUP SEARCH CIR, 27546 SEARCH SE	
BJORN STEINHAU RESIDENCE		45 NUT TF LILLINGTON	
DRAWN BY			
SHEET NAME EQUIPMENT SPECIFICATION			
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SHEET P'	∾им V-1		





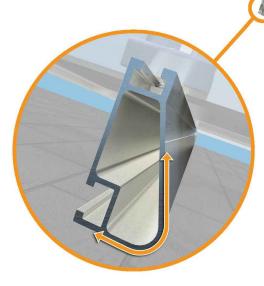
XR Rail Family

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





Corrosion-Resistant Materials

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



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



Rail Selection

The following table was prepared in compliance with applicable engineering codes based on the following criteria: ASCE 7-10, Roof Zone 1, Exposure B, Roof Slope Building Height of 30 ft. Visit IronRidge.com for detailed span tables and certificated

Lo	Load			Rail	Span
Snow (PSF)	Wind (MPH)	4'	5' 4"	6'	8'
	100				
None	120				
none	140	XR10		XR100	
	160				
	100				
10.00	120				
10-20	140				
	160				
30	100				
30	160				
10	100				
40	160				
50-70	160				
80-90	160				

	Tech Brief	TOP TIER SOLAR 1530 CENTE CHARLO	TIER SOLUTIONS DLAR SOLUTIONS R PARK DR #291 TTE, NC 28217, ED STATES	<u>NS</u>
ch size supports				
s an XR Rail to	match.	RE	VISIONS	-
		DESCRIPTION		REV
	ler i	INITIAL DESIG	N 04/10/2023	
1000				
000 is a heavyweight a r mounting rails. It's bu ome climates and spar o for commercial applic	ilt to handle ns 12 feet or			
2' spanning capability ktreme load capability lear anodized finish ternal splices available	9			
s and standards of 7 to 27 degre ions.			IAME & ADDRESS	
10'	12'	S	CIR, 27546	
XR1000		BJORN STEINHAUSER RESIDENCE	45 NUT TREE CIF LILLINGTON, NC 27	
		DF	AWN BY	
		l	ESR	
		EQU	EET NAME IIPMENT IFICATION	
		sн А	eet size NSI B ' X 17"	
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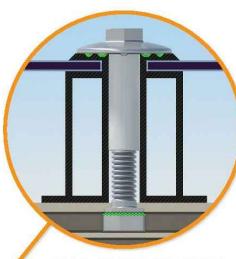


UFO Family of Components

Simplified Grounding for Every Application

The UFO family of components eliminates the need for separate grounding hardware by bonding solar modules directly to IronRidge XR Rails. All system types that feature the UFO family-Flush Mount, Tilt Mount and Ground Mount-are fully listed to the UL 2703 standard.

UFO hardware forms secure electrical bonds with both the module and the rail, resulting in many parallel grounding paths throughout the system. This leads to safer and more reliable installations.



Stopper Sleeve The Stopper Sleeve snaps onto the UFO, converting it into a bonded end clamp

Universal Fastening Object (UFO) The UFO securely bonds solar modules to XR Rails. It comes assembled and lubricated, and can fit a wide range of module heights.

Bonded Attachments

The bonding bolt attaches

rail. It is installed with the

system

and bonds the L-foot to the

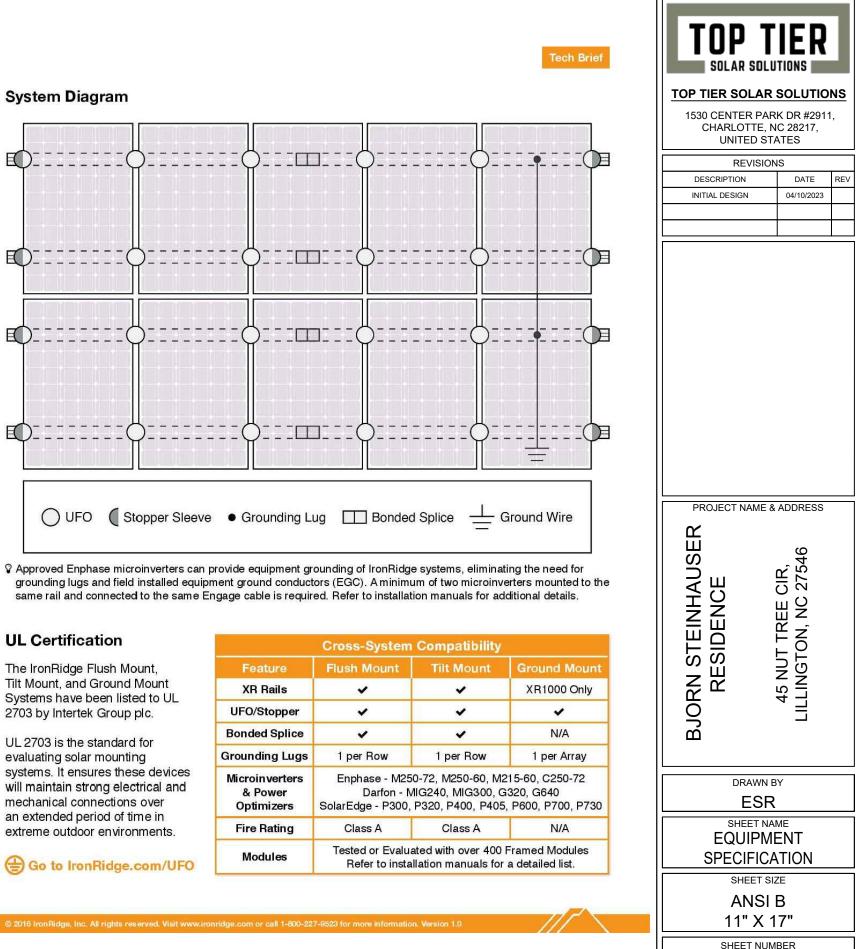
same socket as the rest of the

Bonded Splice Each Bonded Splice uses self-drilling screws to form a secure connection. No

bonding strap needed.



Grounding Lug A single Grounding Lug connects an entire row of PV modules to the grounding conductor.



The IronRidge Flush Mount, Tilt Mount, and Ground Mount Systems have been listed to UL

evaluating solar mounting will maintain strong electrical and mechanical connections over an extended period of time in extreme outdoor environments.

Cross-System Comp				
Feature	Flush Mount	Tilt M		
XR Rails	~			
UFO/Stopper	v	,		
Bonded Splice	~			
Grounding Lugs	1 per Row	1 pe		
Microinverters & Power Optimizers	Enphase - M250-72, M2 Darfon - MIG240, N SolarEdge - P300, P320, P4			
Fire Rating	Class A	Cla		
Modules	Tested or Evaluated with Refer to installation ma			

PV-14



The Strongest Attachment in Solar

IronRidge FlashFoot2 raises the bar in solar roof protection. The unique water seal design is both elevated and encapsulated, delivering redundant layers of protection against water intrusion. In addition, the twist-on Cap perfectly aligns the rail attachment with the lag bolt to maximize mechanical strength.

Twist-On Cap

FlashFoot2's unique Cap design encapsulates the lag bolt and locks into place with a simple twist. The Cap helps FlashFoot2 deliver superior structural strength, by aligning the rail and lag bolt in a concentric load path.

Three-Tier Water Seal

FlashFoot2's seal architecture utilizes three layers of protection. An elevated platform diverts water away, while a stack of rugged components raises the seal an entire inch. The seal is then fully-encapuslated by the Cap. FlashFoot2 is the first solar attachment to pass the TAS-100 Wind-Driven Rain Test.

Single Socket Size

A custom-design lag bolt allows you to install FlashFoot2 with the same 7/16" socket size used on other Flush Mount System components.

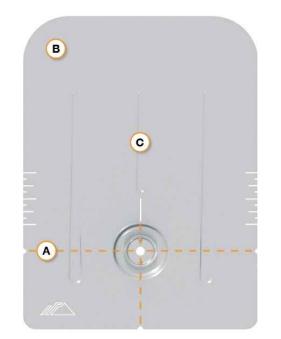


An elevated platform diverts water away from the water seal

Tech Brief

FlashFoot2

Installation Features



Benefits of Concentric Loading

Traditional solar attachments have a horizontal offset between the rail and lag bolt, which introduces leverage on the lag bolt and decreases uplift capacity.

FlashFoot2 is the only product to align the rail and lag bolt. This concentric loading design results in a stronger attachment for the system.

1200 FlashFoot2 (lbs) 1000 ity 800 FlashFoo 600 400 ŧ Idn 200

(A) Alignment Markers

(B) Rounded Corners

Reinforcement Ribs

crinkling during installation.

(C)

Testing & Certification

Structural Certification

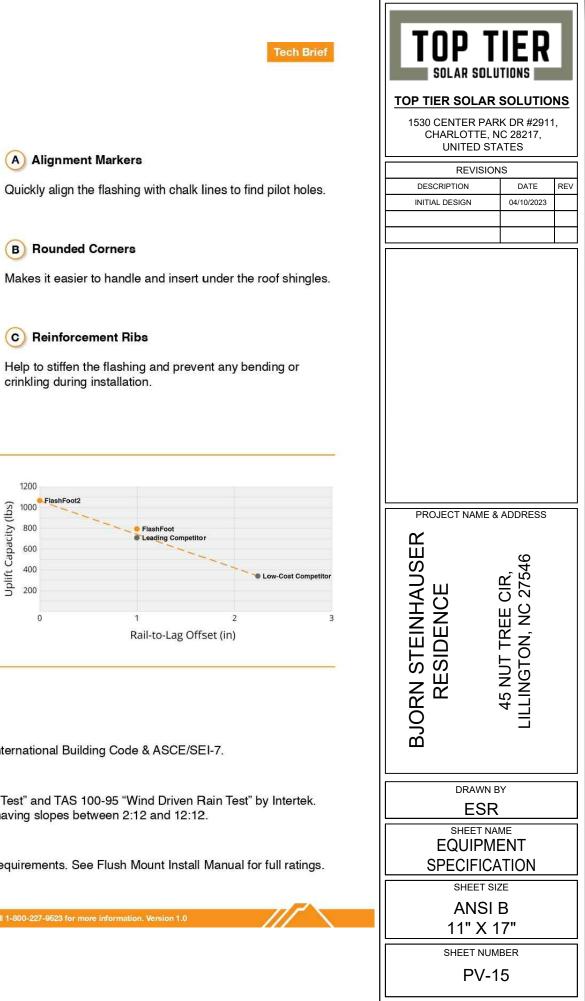
Designed and Certified for Compliance with the International Building Code & ASCE/SEI-7.

Water Seal Ratings

Water Sealing Tested to UL 441 Section 27 "Rain Test" and TAS 100-95 "Wind Driven Rain Test" by Intertek. Ratings applicable for composition shingle roofs having slopes between 2:12 and 12:12.

UL 2703

Conforms to UL 2703 Mechanical and Bonding Requirements. See Flush Mount Install Manual for full ratings.





FlashFoot2[®]

 Image: constrained of the second difference of the second differe

		 ,
1	BOLT LAG 5/16 X 4.75"	1
2	ASSY, FLASHING	1
3	ASSY, CAP	1
4	WASHER, EPDM BACKED	1

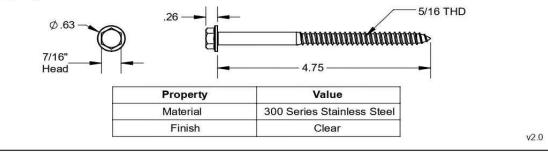
FLASHFOOT 2

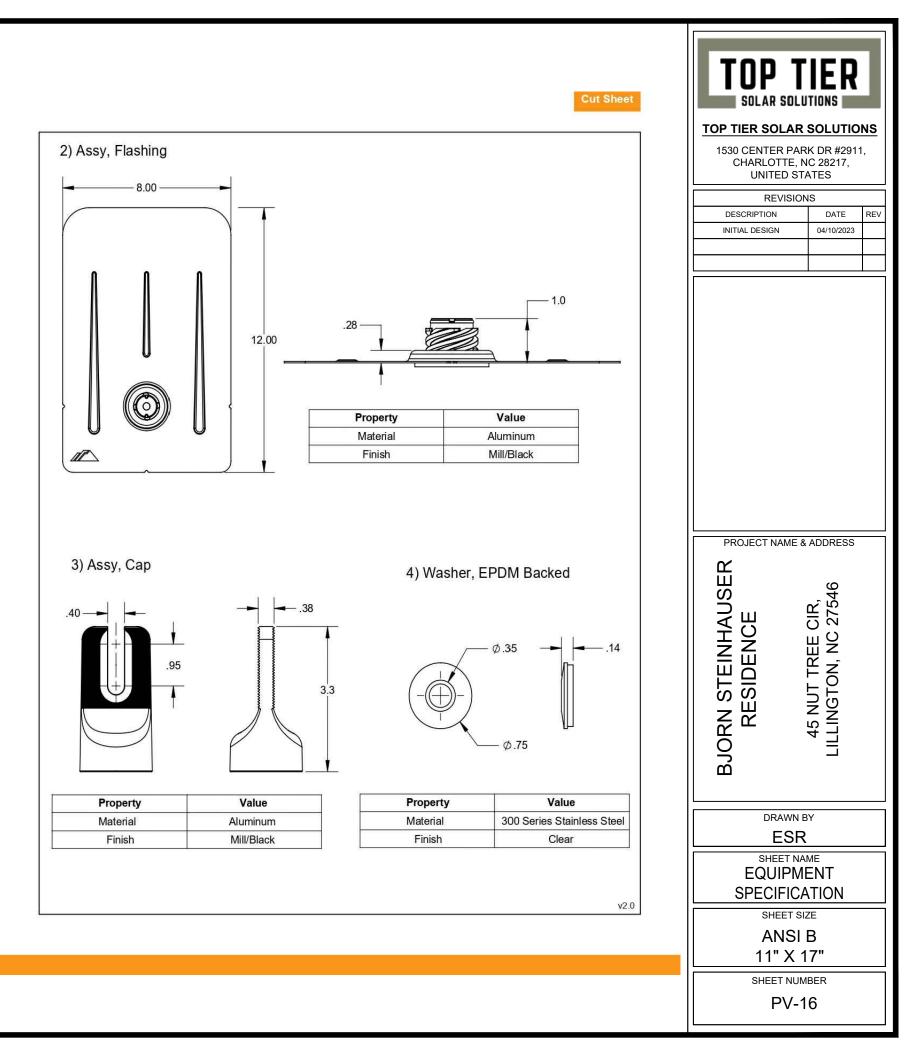
Part Number	Description	
FF2-02-M2	FlashFoot2® (Mill)	
FF2-02-B2	FlashFoot2® (Black)	

1) Bolt, Lag 5/16 x 4.75

IRONRIDGE

11







Basic Features

- Stamped Seamless Construction
- 18 Gauge Galvanized Steel
- Powder Coated Surfaces
- Flashes into the roof deck
- 3 Roof deck knockouts .5", .75", 1"
- 5 Centering dimples for entry/exit fittings or conduit
- 2 Position Ground lug installed
- Mounting Hardware Included



SolaDeck Model SD 0783



SolaDeck UL50 Type 3R Enclosures

Available Models: Model SD 0783 - (3" fixed Din Rail) Model SD 0786 - (6" slotted Din Rail)



SolaDeck UL 1741 Combiner/Enclosures

Models SD 0783-41 and SD 0786-41 are labeled and ETL listed UL STD 1741 according to the UL STD 1741 for photovoltaic combiner enclosures. Max Rated - 600VDC, 120AMPS

Model SD 0783-41 3" Fixed Din Rail fastened using Norlock System **Typical System Configuration

- 4- Din Rail Mounted Fuse Holders 600VDC 30 AMP
- 1- Power Distribution Block 600VDC 175AMP
- 1- Bus Bar with UL lug

Model SD 0786-41 6" Slotted Din Rail fastened using steel studs

**Typical System Configuration

- 4- Din Rail Mounted Fuse Holders 600VDC 30 AMP
- 4- Din Rail Mounted Terminal Blocks Bus Bars with UL lug

**Fuse holders and terminal blocks added in the field must be UL listed or recognized and meet 600 VDC 30 AMP 110C for fuse holders, 600V 50 AMP 90C for rail mounted terminal blocks and 600 V 175 AMP 90C for Power Distribution Blocks. Use Copper Wire Conductors.



Cover is trimmed to allow conduit or fittings, base is center dimpled for fitting locations.



Model SD 0783-41, wired with Din Rail mounted fuse holders, bus bar and power distribution block



Model SD 0786-41, wired with Din Rail mounted fuse holders, terminal blocks and bus bars.

RSTC Enterprises, Inc • 2219 Heimstead Road • Eau Cliare, WI 54703 For product information call 1(866) 367-7782

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	UNITED STATES				
DESCRIPTION	IS DATE	REV			
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ESR					
SHEET NAME EQUIPMENT SPECIFICATION					
SHEET SIZE ANSI B 11" X 17"					
SHEET NUMBER PV-17					