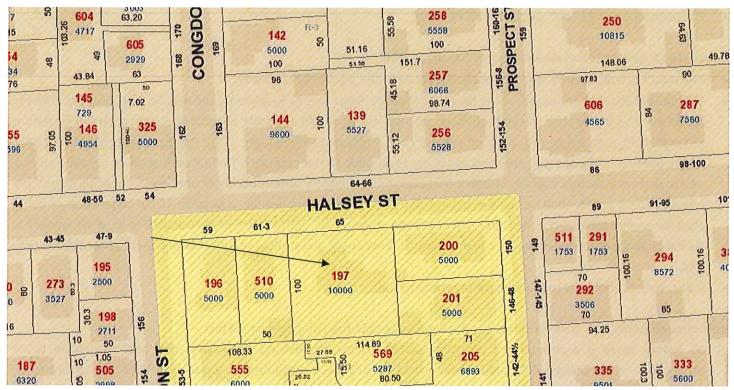
3. CASE 21.123, 65 HALSEY STREET, House, post 1957 (COLLEGE HILL)

Contemporary; 1; flat; vertical sheathing; L plan with garage under; bands of windows; entrance in arms of L under cantilevered overhang.

NON-CONTRIBUTING to College Hill National Historic Landmarks District



Arrow indicates 65 Halsey Street



Arrow indicates project location, looking north.

OWNER DETAIL

NAME: PAULA MARTIESIAN MUNICIPALITY: PROVIDENCE, RI

CONTRACTOR DETAILS

NAME: GOTSUN GOSOLAR PHONE: 774-229-2986

DESIGN SPECIFICATIONS

OCCUPANCY:

CONSTRUCTION:

SINGLE FAMILY DWELLING

ZONING: RESIDENTIAL

APPLICABLE CODES & STANDARDS

BUILDING: ELECTRICAL: IBC 2015 **NEC 2020**

ROOF MOUNT PV SYSTEM 9.085 KW DC / 6.67 KW AC

PAULA MARTIESIAN

65 HALSEY ST PROVIDENCE, RI 02906



G1	3D MODEL	
0.1	NITS	



SHEET LIST TABLE

G-2 A-1 A-2 E-1 E-2 S-1 S-2 D-1

D-2 D-3

SHEET TITLE

COVER PAGE NOTES

COMPONENTS INFORMATION

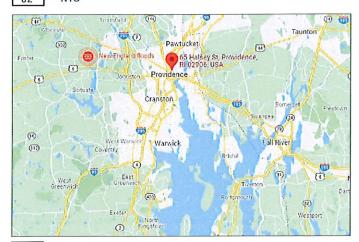
THREE LINE DIAGRAM RACKING

RACKING DATASHEET RACKING MOUNT DATASHEET

SITE PLAN PROJECT PLAN

LABELLING MODULE DATASHEET INVERTER DATASHEET

G1 IRRADIANCE MAP 02



G1 REGIONAL MAP 04 NTS

PROJECT NOTES

1.1.2 THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEO) ARTICLE, ALL MANUFACTURERS'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AH.) APPLICABLE CODES.

1.1.3 THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION

1.1.4 GROUND FAULT DETECTION AND INTERRUPTION (GFDI) DEVICE IS INTEGRATED WITH THE MEDICANTETER IN ACCORDANCE MITH NECESSOR (1).

1.1.4 GROUND FAULT DETECTION AND INTERROUPTION (GPDI) DEVICE IS INTEGRATED WITH THE MICROINVERTER IN ACCORDANCE WITH NEC 690.5(A)

1.1.5 ALL PV SYSTEM COMPONENTS; MODULES, UTILITY-INTERACTIVE INVERTERS, AND SOURCE CIRCUIT COMBINER BOXES ARE IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY NEC 690.4 & NEC 690.60:

PV MODULES: UL1703, IEC61730, AND IEC61215, AND NFPA 70 CLASS C FIRE

INVERTERS: UL 1741 CERTIFIED, IEEE 1547, 929, 519

INVERTERS: UL 1741 CERTIFIED, IEEE 1947, 929, 519
COMBINER BOX(ES): UL 1703 OR UL 1741 ACCESSORY
1.1.6 MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC. IF UNAVAILABLE, MAX DC VOLTAGE CALCULATED ACCORDING TO NEC 690.7.
1.1.7 ALL INVERTERS, PHOTOVOLTAIC MODULES, PHOTOVOLTAIC PANELS, AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER SYSTEM WILL BE IDENTIFIED

LISTED FOR THE APPLICATION PER 690 4 (D). SHALL BE INSTALLED ACCORDING TO ANY

INSTRUCTIONS FROM LISTING OR LABELING [NEO 110.3].

1.1.8 ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE, IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEO AND AHJ.

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

1.2.2 WORK INCLUDES:

1.2.3 PV ROOF ATTACHMENTS

1.2.4 PV PROCKING SYSTEM INSTALLATION

1.2.5 PV MODULE AND INVERTER INSTALLATION

1.2.6 PV EQUIPMENT GROUNDING

1.2.7 PV SYSTEM WIRING TO A ROOF-MOUNTED JUNCTION BOX

1.2.8 PV LOAD CENTERS (IF INCLUDED)

1.2.9 PV METERING/MONITORING (IF INCLUDED)

1.2.10 PV DISCONNECTS 1.2.11 PV GROUNDING ELECTRODE & BONDING TO (E) GEC

1.2.11 PV GROUNDING ELECTRODE & BORDING TO (L) GEO

1.2.12 PV FINAL COMMISSIONING

1.2.13 (E) ELECTRICAL EQUIPMENT RETROFIT FOR PV

1.2.14 SIGNAGE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE

GOTSUN GOSOLAR

GOTSUN GOSOLAR

1547 FALL RIVER AVE

SUITE #1

SEEKONK, MA 02771

PHONE: 774-229-2986

MA REG# CS-091168

MA HIC# 180717

RI REG# 3973

ROOF MOUNT PV SYSTEM 9.085 KW DC / 6.67 KW AC PAULA MARTIESIAN 65 HALSEY ST PROVIDENCE, RI 02906

COVER PAGE

DATE: 09.05.2021

DESIGNED BY: YO

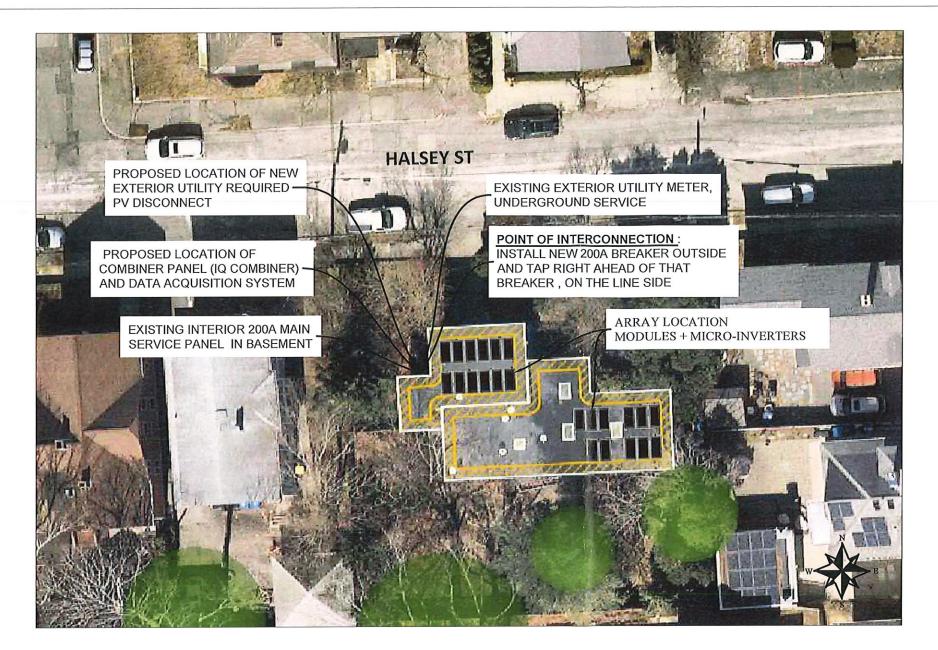
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REVISIONS REV1

G-1







LOCATION INFO		
LOCATION	PROVIDENCE, RI 02906 USA	
LATITUDE	41.834038' N	
LONGITUDE	71.407175' W	
ELEVATION	247 m	
DESIGN LOW TEMP	-4° F (-20° C)	
DESIGN HIGH TEMP	89.6° F (32° C)	

ELECTRICAL CHARACTERISTICS		
MICRO-INVERTERS	(23) ENPHASE IQ 7+	
MODULES (23) LG395N2K-A5 395W		
NUMBER OF MODULES	(14)	
ARRAY CIRCUITS	2 BRANCHES : 11/12	
STC POWER OF ARRAY	9.085 KW	
MAX AC OUTPUT CURRENT	27.83 A	







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SITE PLAN

DATE: 09.05.2021

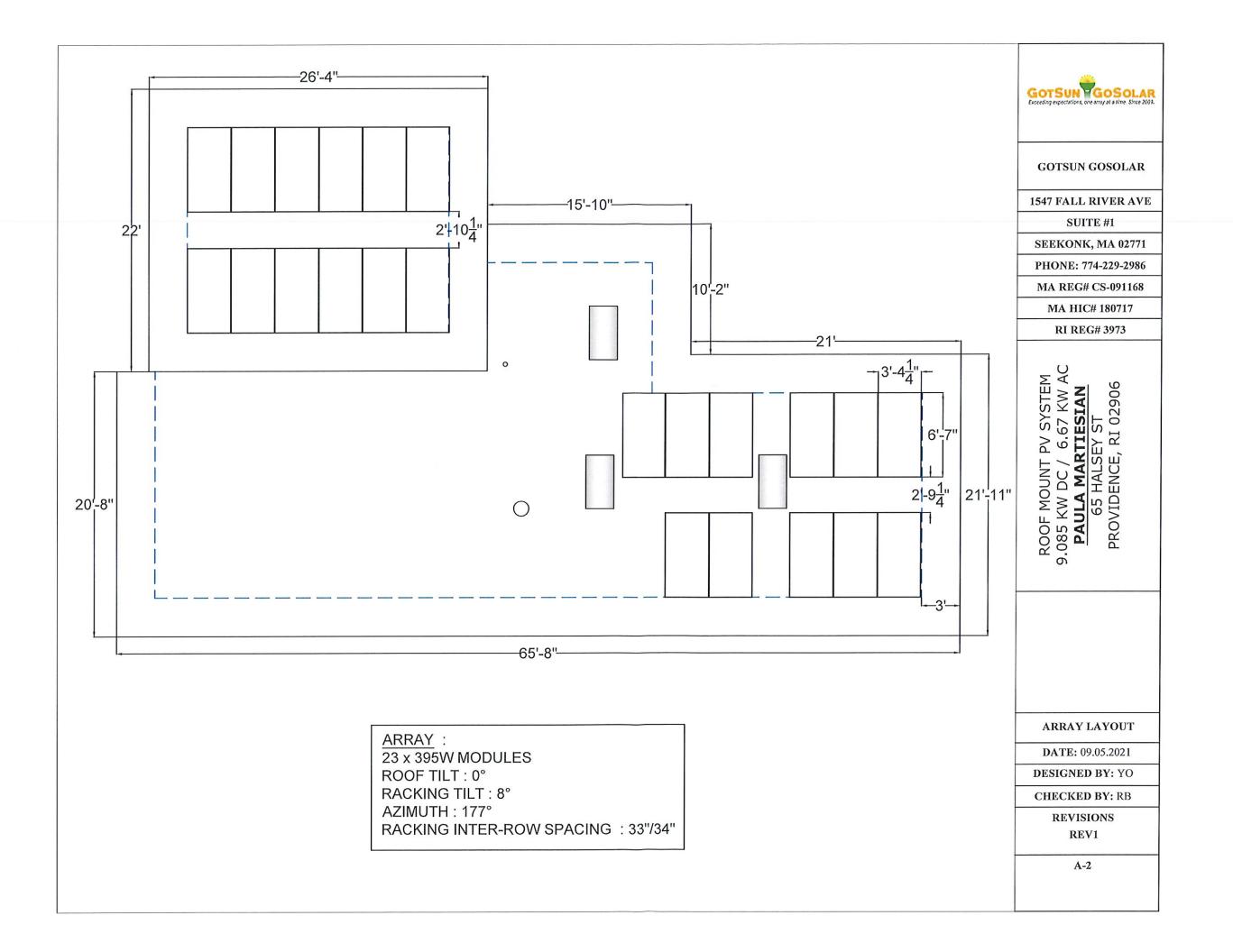
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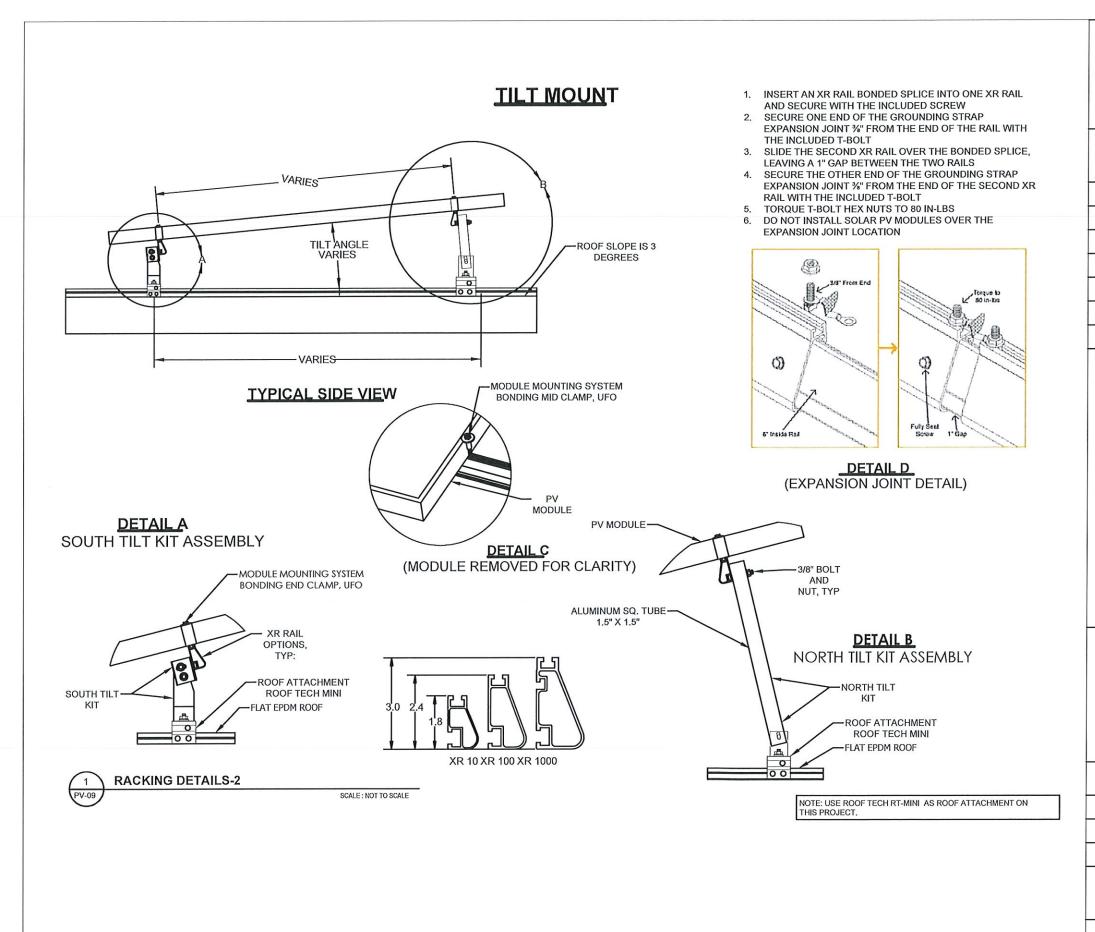
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REV1

A-1







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RACKING SYSTEM (1)

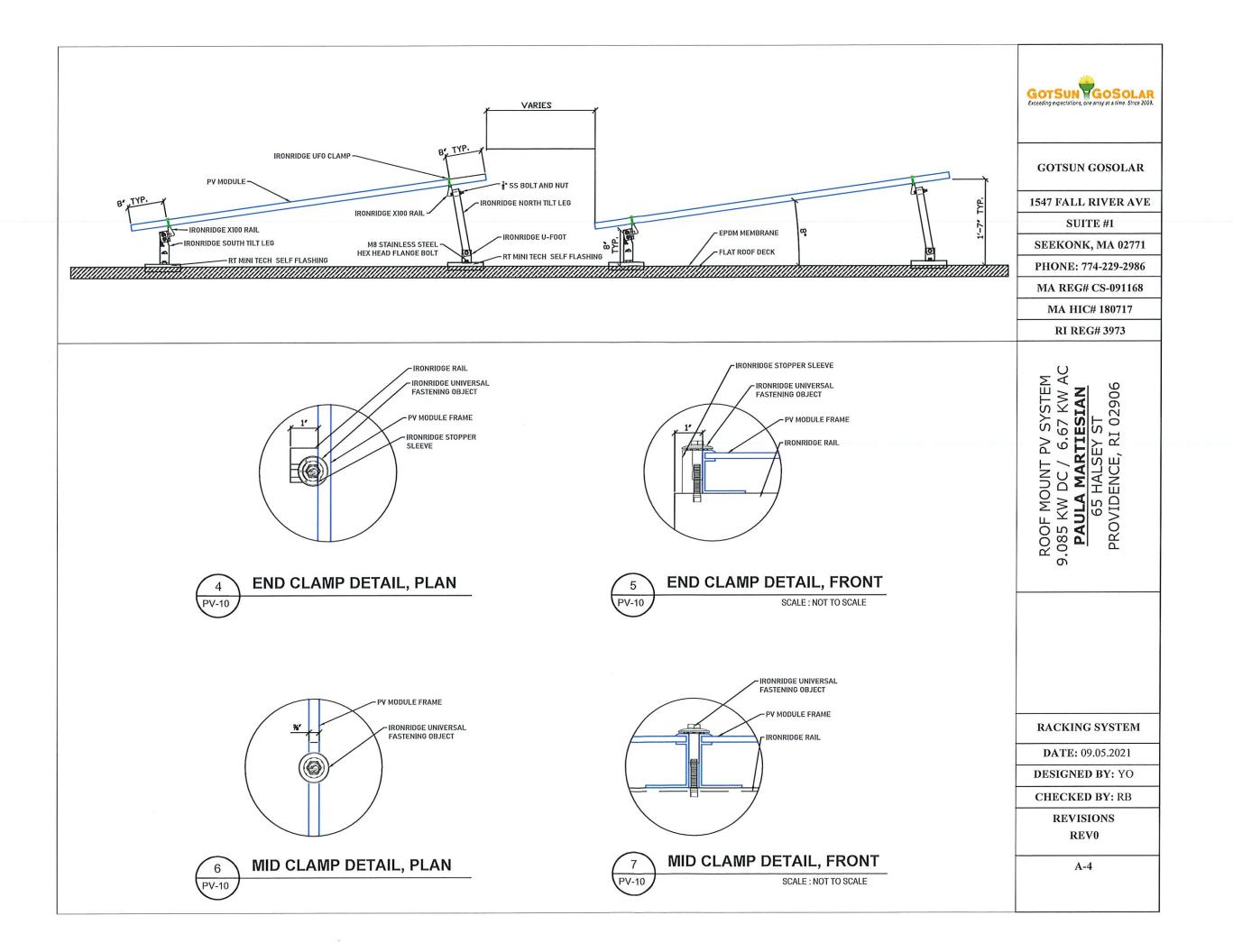
DATE: 09.05.2021

DESIGNED BY: YO

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A-3



	MICRO-INVERTERS						
REF	QTY	MAKE AND MODEL	AC VOLTAGE	MAX OCPD RATING	RATED POWER	MAX OUTPUT CURRENT	CEC WEIGHTED EFFICIENCY
I 1-23	23	ENPHASE IQ 7+	240V	20A	290 W	1.21A	97.5%

	MODULES		
REF	QTY	MAKE AND MODEL	Pmax
M 1- 23	23	LG395N2K A5	395 W

OCPDs				
REF	QTY	RATED CURRENT	MAX VOLTAGE	
CB1	1	20A	240V	
CB2	1	20A	240V	

	DISCONNECTS			
REF	QTY	MAKE AND MODEL	RATED CURRENT	
SW1	1	SQUARE D OR EQUIV	60A DISCONNECT 35A FUSES	
SW2	1	SQUARE D OR EQUIV	200A MAIN BREAKER OR FUSED DISCONNECT FOR INTERCONNECTION METHOD	



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ROOF MOUNT PV SYSTEM 9.085 KW DC / 6.67 KW AC PAULA MARTIESIAN 65 HALSEY ST PROVIDENCE, RI 02906

COMPONENTS INFORMATION

DATE: 09.05.2021

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REVISIONS REV1

E-1



Tilt Mount System



Trust your system at every angle.

The IronRidge Tilt Mount System supports a wide range of solar module tilting angles, while also resisting the extreme wind and snow forces experienced over a building's lifetime.

Every component has been carefully engineered and rigorously tested, and the entire system uses only aluminum and stainless steel materials to resist corrosion.



Roof Friendly

Lightweight and compatible with industry-standard attachments.



Strength Tested

All components evaluated for superior structural performance.



UL 2703 Listed System

Meets newest effective UL 2703 standard.



PE Certified

Pre-stamped engineering letters available in most states.



Design Assistant

Online software makes it simple to create, share, and price projects.



25-Year Warranty

Products guaranteed to be free of impairing defects.

XR Rails & Tilt Legs

XR Rails



Attach directly to Tilt Legs. Available in three targeted sizes to support specific wind and snow loads.

- · Unique curved profile
- · Spanning capabilities up to 12'
- · Clear and black finish

Tilt Legs 😑



Datasheet

Tilt assembly to desired angle, up to 30 degrees. Kits include South and North Tilt Leg and all hardware.

- · Available in multiple lengths for a wide angle range
- · Assembled South Tilt Legs include angle indicators
- · Legs are electrically bonded to rails

Grounding Clamps

UFOs 😑



Universal Fastening Objects secure and bond modules to rails.

· Fully assembled and lubricated

BOSS™ Bonded Splices ⊕

Bonded Structural Splices connect

and bond XR Rails together.

Integrated bonding

· No tools or hardware

· Self-centering stop tab

- · Single, universal size
- · Clear and black finish

Stopper Sleeves 😩



Snap onto the UFO to transform into a bonded end clamp.

- · Bonds modules to rails · Sized to match modules
- · Clear and black finish

Grounding Lugs (+)

equipment ground.

· Single tool installation

· Mounts in any direction

· Low profile

CAMO (



Bond modules to rails while staying completely hidden.

- · Universal end-cam clamp
- · Tool-less installation
- · Fully assembled

Ends Caps & Wire Clips



Connects Tilt Mount system to Provide a finished look and organize electrical wires.

- · Simple snap-in installations
- · Clips hold up to ten 5mm wires
- · UV-stabilized polymer

Resources -



Design Assistant Go from rough layout to fully engineered system. For free.



NABCEP Certified Training

Earn free continuing education credits, while learning more about our systems. Go to IronRidge.com/training



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9

RACKING DATASHEET

DATE: 09.05.2021

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D-3

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RT-MINI

Self-flashing base for asphalt & metal roof-top PV mounting systems

RT-MINI is suitable for mounting any rail system with a conventional L-Foot.

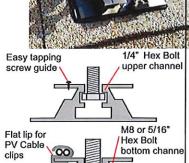


Dual bolt design: M8 or 5/16" for L-Foot & 1/4" for EMC









RT-MINI

Flexible Flashing certified by the International Code Council (ICC)

Engineered to ASTM D 1761 (Standard Test Methods for Mechanical Fasteners in Wood)

Components

RT2-00-MINIBK

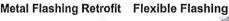






5 x 60mm Mounting screw (RT2-04-SD5-60): 100 ea./Bag 5/16" Hex bolt, washer & nut set (RT-04-BN30SL-US): 100 ea./Bag RT-Butyl (RT2-04-BUTYLT): 10 ea/Box

RT-Butyl is Roof Tech's flexible flashing used in one million residential PV systems for the last 26 years. It is the first PV mounting system with Flexible Flashing certified by the ICC. Engineered to withstand wind speeds up to 180 mph and











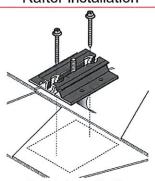


Dimensions in (mm)

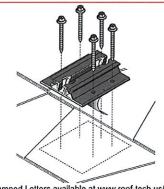


31/2 (90) \$@[_7U_

Rafter installation



Deck installation



P.E. Stamped Letters available at www.roof-tech.us/support

Roof Tech Inc. www.roof-tech.us info@roof-tech.us 10620 Treena Street, Suite 230, San Diego, CA 92131 858.935.6064

March 2020

t_Mount_Data_Sheet.pdf

RACKING MOUNT DATASHEET

DATE: 09.05.2021

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D-4