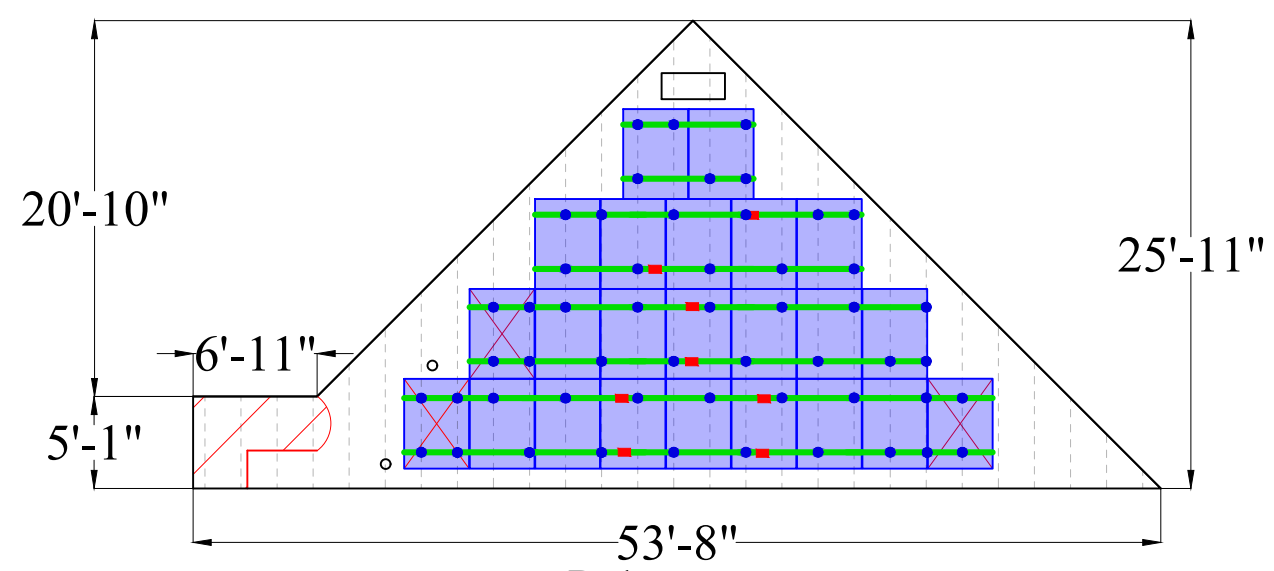
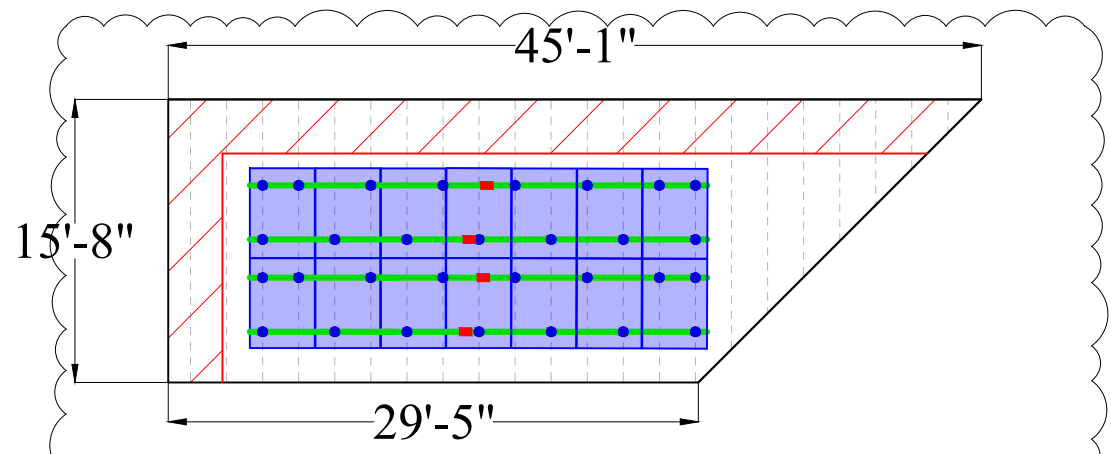


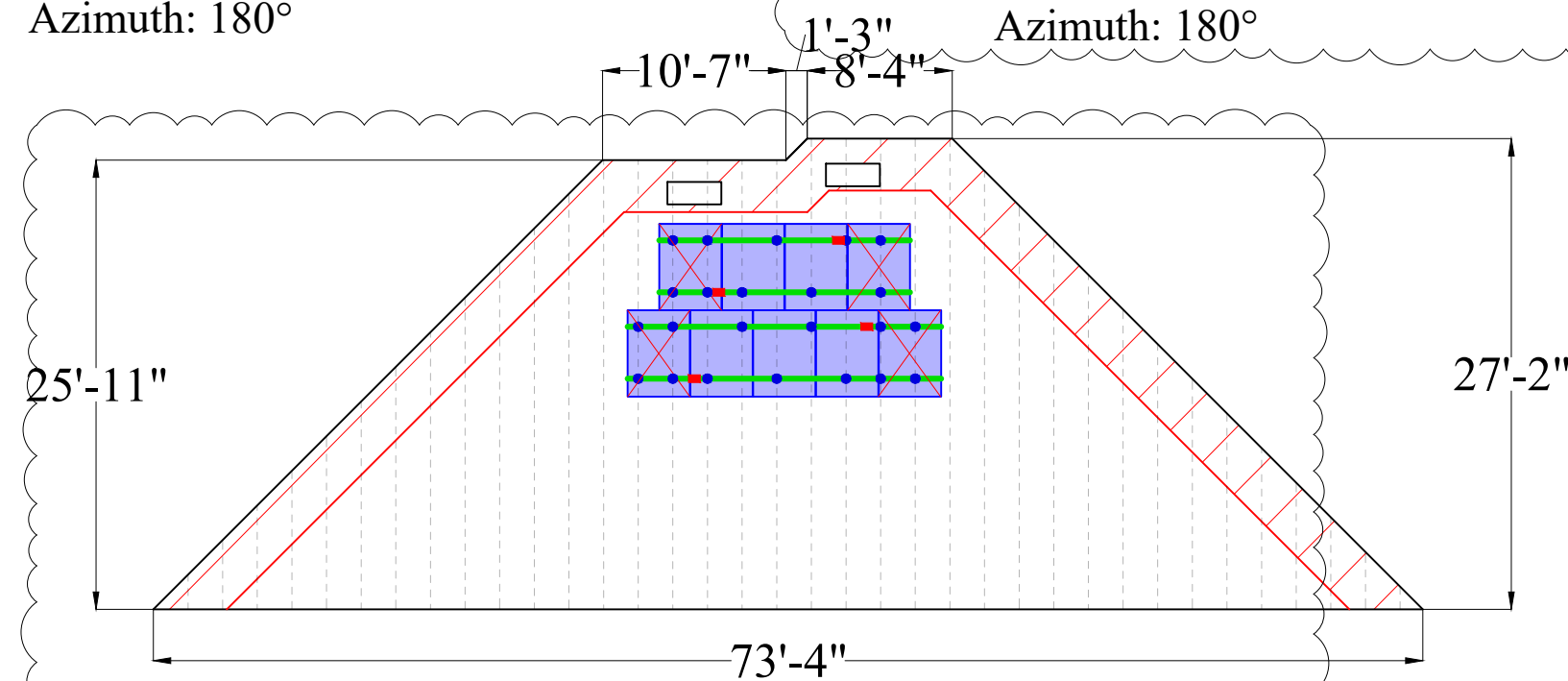
Proposed Mounting locations



R-1  
# Modules (23)  
Pitch: 30°  
Azimuth: 180°

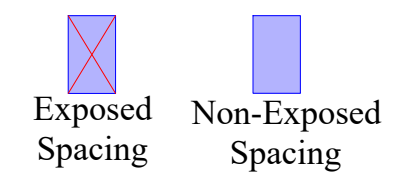


R-2  
# Modules (14)  
Pitch: 30°  
Azimuth: 180°



R-3  
# Modules (9)  
Pitch: 30°  
Azimuth: 270°

- Iron Ridge XR-100 Rail
- 14' 28
- 16 **Splice Bar**
- 106 IronRidge HUG
- 108 Iron Ridge UFO's
- 32 Iron Ridge Sleeves/End Caps
- 3 Roof Top Combiner
- 8 Iron Ridge Ground Lugs
- 46 TSM-390DE09C.07
- 46 Enphase IQ8PLUS-72-2-US
- 1 100A Fused Disconnect
- 2 70A Fuses
- 4 20A 2P Breakers
- 1 Enphase Combiner Box



Plans satisfy zones FBC-1510.7.1  
Install will be done to Manufacturer Spec

Rafter Spans	Zone 1	Zone 2e	Zone 2r	Zone 3
Exposed	24"	24"	24"	24"
Non-Exposed	48"	48"	24"	24"
Max Cantilever	19.2"	19.2"	9.6"	9.6"

Max Cantilever = Max Span \* ( $\frac{2}{5}$ )

Inverter Type: (46)Enphase IQ8PLUS-72-2-US  
PV Panel: (46) TSM-390DE09C.07  
Racking: Iron Ridge XR-100  
Total Wattage: 17,940W DC  
Roof Type: Composition Shingle  
Wind Load: 27 to 45 Deg  
Fastener Type: Use (2) #14 x 3" SS Screws

**Customer Info:**

ANDREW BUERGO  
241 NW POMPARNO CT  
LAKE CITY, FL  
32055

Godwin Engineering and Design, LLC  
8378 Foxtail Loop  
Pensacola, FL 32526  
D. Chad Godwin, PE  
Chad@godwineng.com



978 SW 2nd Ave  
Gainesville, FL 32601

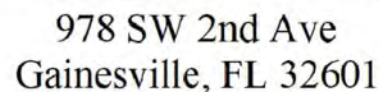
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<b>Drawn by:</b>	JM
<b>Revised by:</b>	DMB
<b>Rev #:</b>	01
<b>Rev Date:</b>	10/31/2023
<b>Page:</b>	11"x17" S-1A



# I

- S-1 Cover Sheet / Site Plan
- S-2 Detail
- E-1 One - Line
- E-2 Electrical Code
- S-1A Mounting Plan

- Enphase IQ8PLUS-72-2-US Micro Inverters are located on roof behind each module.
- First responder access maintained and from adjacent roof.
- Wire run from array to connection is 40 feet.



3'



○

Install will be done to Manufacturer Spec

3' Access Pathway

## 1st Responder Access

Meets the requirements of the following- (2020 FL Residential Code & FBC, 7th Edition (2018 International Residential Code) - 2nd Printing modified by the FL Building Standards, 2020 Florida Building Energy Conservation Code 7th edition, County of Columbia Code, 2017 National Electric Code.)

ANDREW BUERGO  
241 NW POMPANO CT  
LAKE CITY, FL  
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Godwin Engineering and  
Design, LLC  
8378 Foxtail Loop  
Pensacola, FL 32526  
D. Chad Godwin, PE  
Chad@godwineng.com

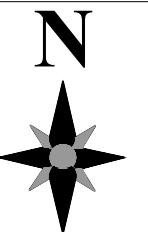
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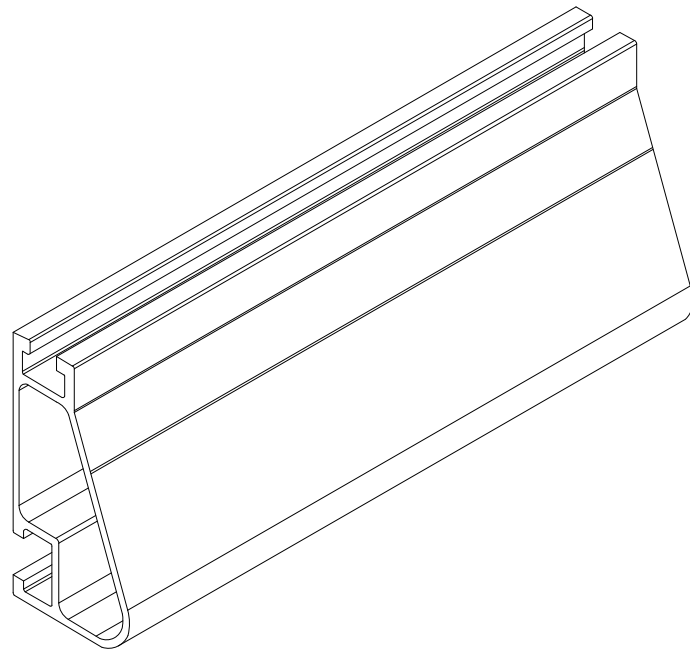
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Rev #: 01

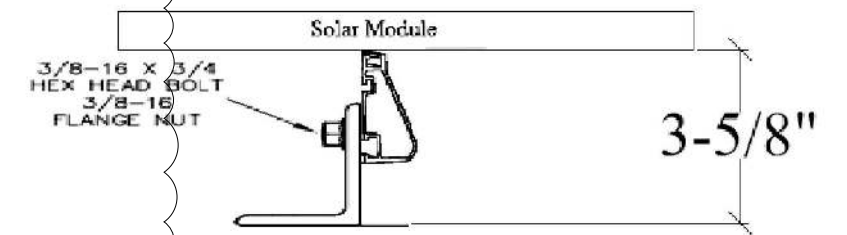
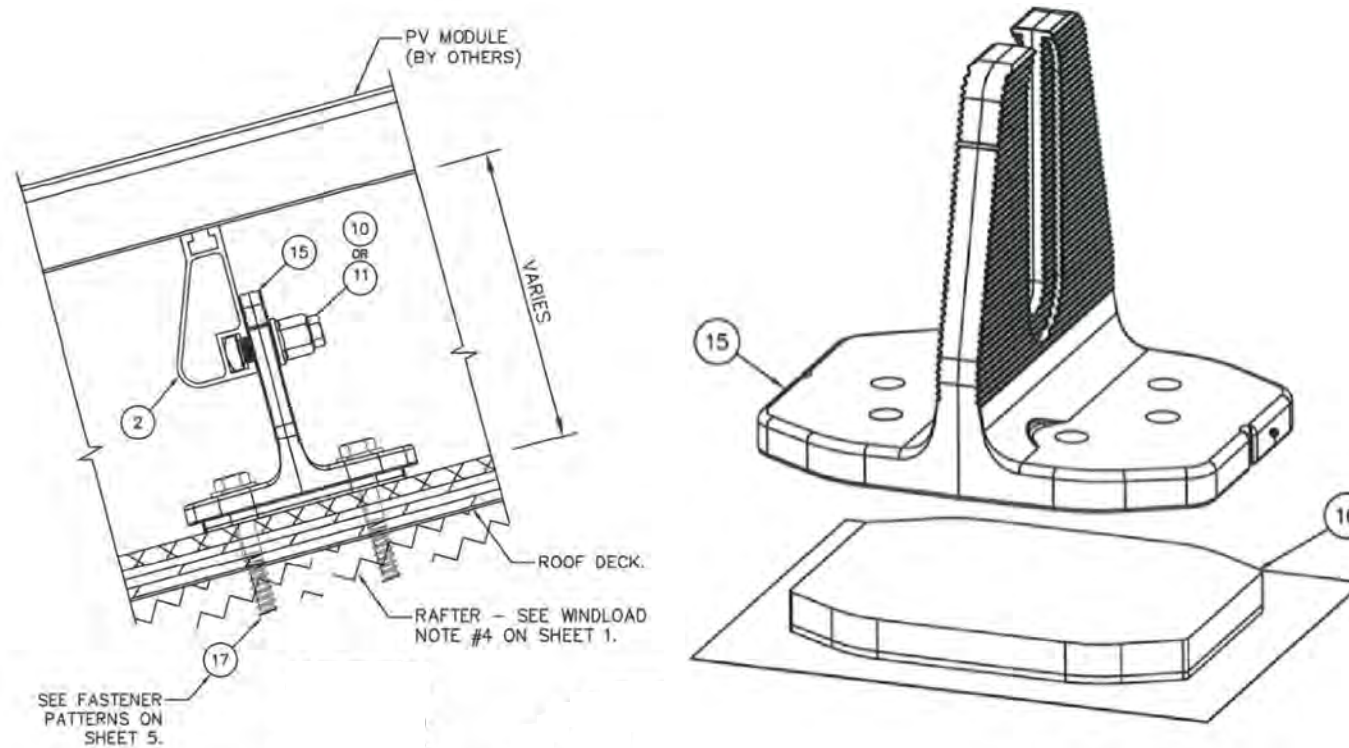
<b>Rev Date:</b>	10/31/2023
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Ironridge XR-100



BILL OF MATERIALS- QuickMount Halo Ultra Grip (HUG)		
#	DESCRIPTION	MATERIALS/NOTES
15	HALO ULTRAGRIP BASE, MILL OR BLACK	300 SERIES ALUMINUM
16	ULTRAGRIP FLASHING SYSTEM	PRESSURE SENSITIVE ADHESIVE
17	SCREW, #14 X 3" WITH EPDM BACKED WASHER	300 SERIES SS & EPDM

Install will be done to Manufacturer Spec

R1-R3

Roof Type:	Composition Shingle
Roof Pitch & Overhang:	7/12; 12" Overhang
Mount Type:	Halo UltraGrip
Fastener: No Substitutions	(2) #14 x 3" SS Self-drilling Screws into Roof Rafters
Structure:	2"x4" Wood Trusses @ 24" O.C.
Sealing/Flashing:	All penetrations are sealed and flashed with Ultragrip Flashing System
Extra Notes:	(HW-RD1430-01-M1 screw)

Rafter Spans	Zone 1	Zone 2e	Zone 2r	Zone 3
Exposed	24"	24"	24"	24"
Non-Exposed	48"	48"	24"	24"

**-Roof Height 15'**  
**-Per 2020 FBC, the Roof Mounted PV System will be subject to the following design criteria:**  
**Design Wind Speed(Vult) - 120mph 3 sec gust,**  
**Exposure Category - C**  
**-Designed as per ASCE7-16**

Inverter Type: (46)Enphase IQ8PLUS-72-2-US  
PV Panel: (46) TSM-390DE09C.07  
Racking: Iron Ridge XR-100  
Total Wattage: 17,940W DC  
Roof Type: Composition Shingle  
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D. Chad Godwin, PE  
Chad@godwineng.com



978 SW 2nd Ave  
Gainesville, FL 32601

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