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Drawn By:
Tyler Zimmermann

Page Title:
Cover Page

Drawing Number: A.1
Line Diagram Not to Scale
Representational Use Only

7.84 kW Grid Tied Solar Array

Mr. Patrick Ibert
1131 St Andrew
New Orleans, LA 70130

Engineering Report

Plan Review

Roof Point Load Up: **-533 lbs**

Roof Point Load Down: **337 lbs**

Total Number of Modules: 28
Total KW: 7.84 KW
Rows/ Columns: 3 / 14 (with gaps)
NS Dimension: ~193.7 in
EW Dimension: ~557.4 in

Loads Used for Design

- Building Code: ASCE 7-05
- Wind Speed: 130 mph
- Ground Snow Load: 0 psf
- Seismic (Ss): 0.10
- Wind Exposure: B

Loads Determined by Zip

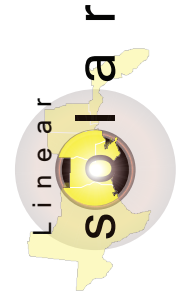
- City, State: New Orleans, LA
- Wind Speed: 126 mph
- Ground Snow Load: None psf

Inspection

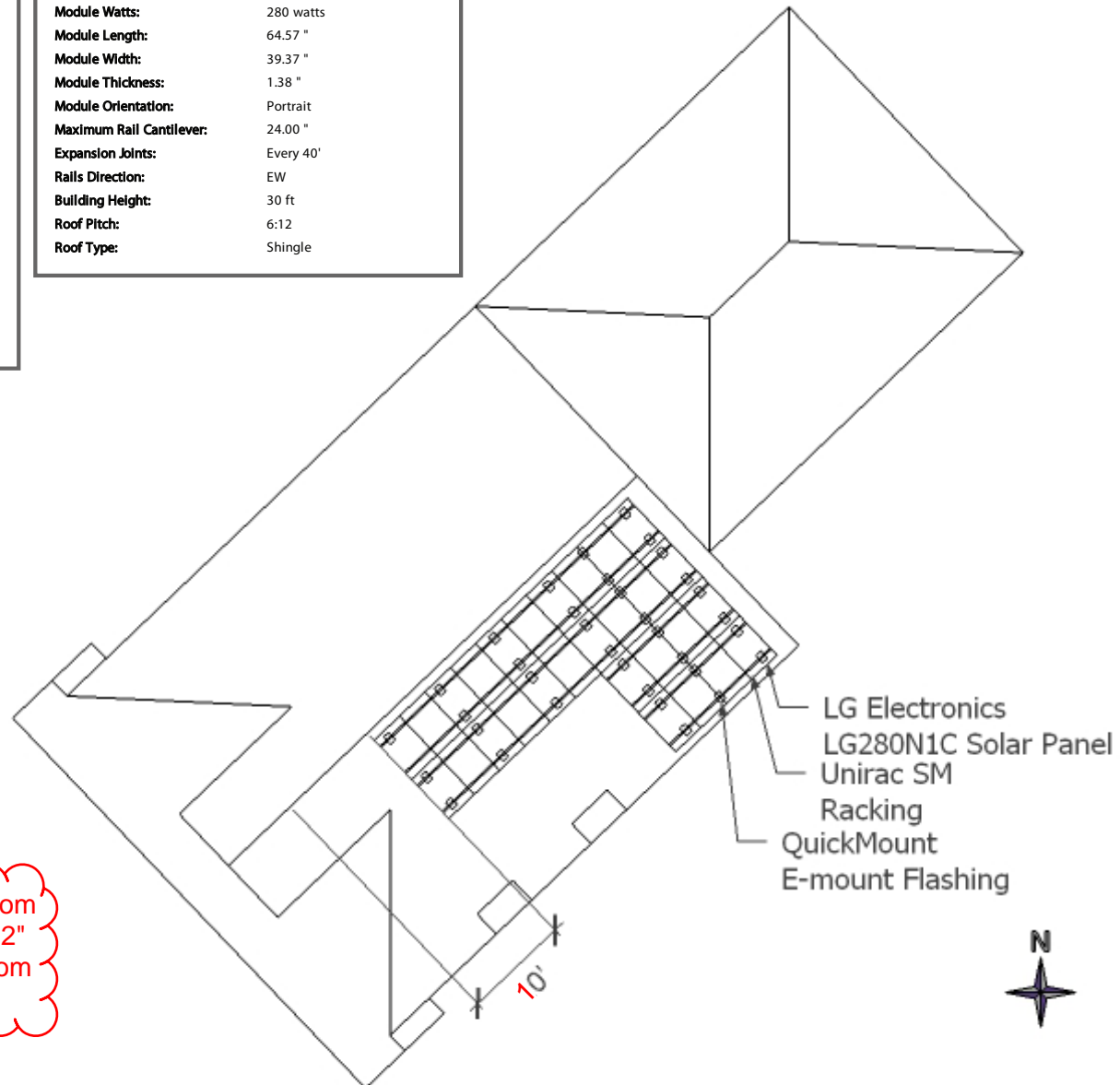
Maximum Rail Span (Zone 1): 82"

Selected Rail Span: 72"

Product: SOLARMOUNT
Module Manufacturer: LG
Model: LG280N1C
Module Watts: 280 watts
Module Length: 64.57 "
Module Width: 39.37 "
Module Thickness: 1.38 "
Module Orientation: Portrait
Maximum Rail Cantilever: 24.00 "
Expansion Joints: Every 40'
Rails Direction: EW
Building Height: 30 ft
Roof Pitch: 6:12
Roof Type: Shingle



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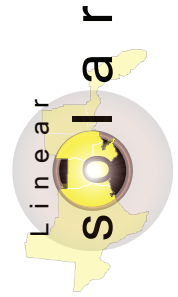
Panels shall be installed 10' from the front wall of the building, 12" from the roof ridge, and 12" from the roof eave.

7.84 kW Grid Tied Solar Array

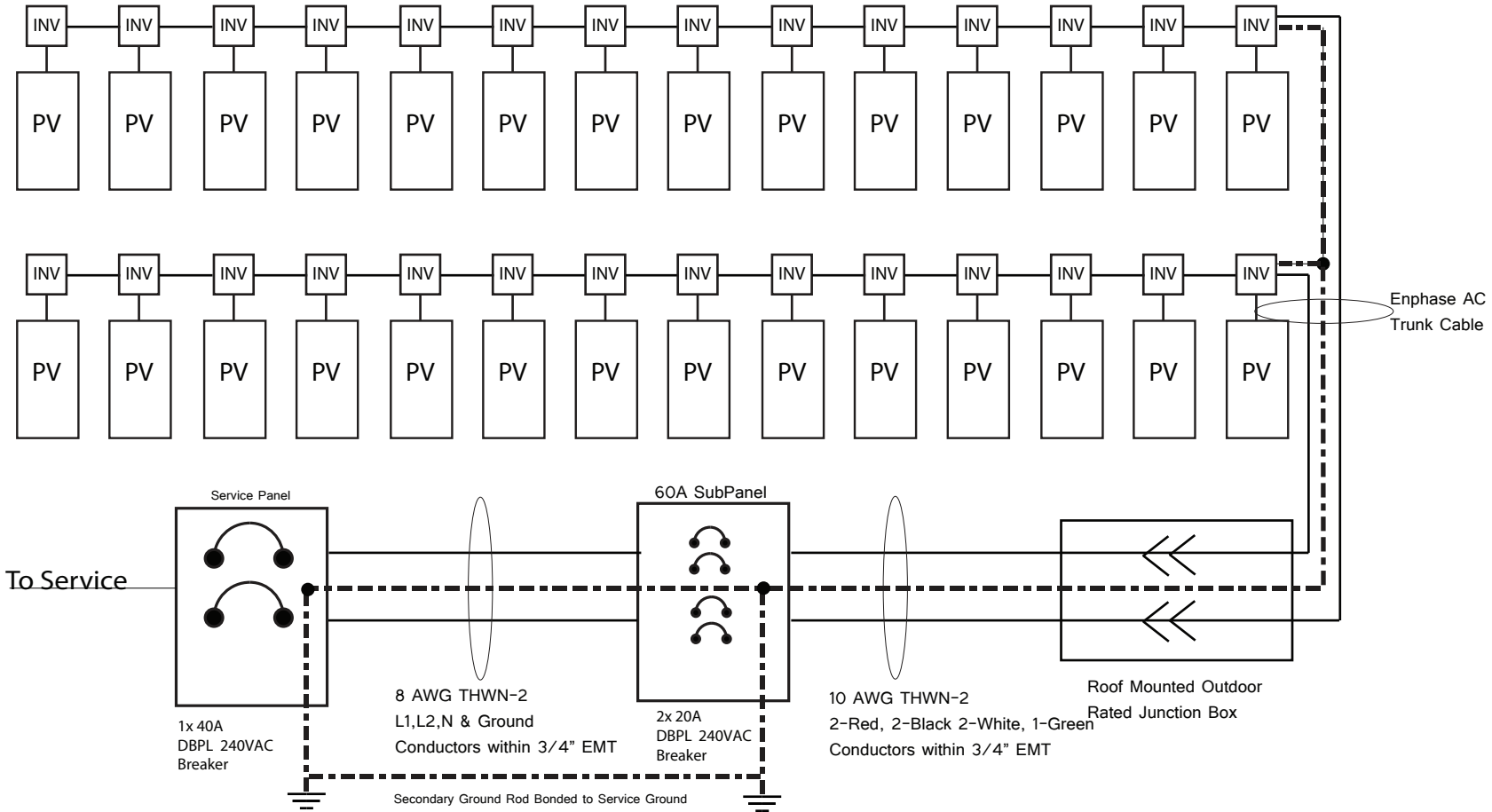
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Page Title:
 Layout- Design
 Drawing Number: A.2
 Rail and Panel Layout
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Key
PV - ILG Electronics LG2801C Solar Panel
INV - Enphase M-250 Micro Inverter

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Page Title:
Electrical Diagram
Drawing Number: A.3
Rail Layout
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