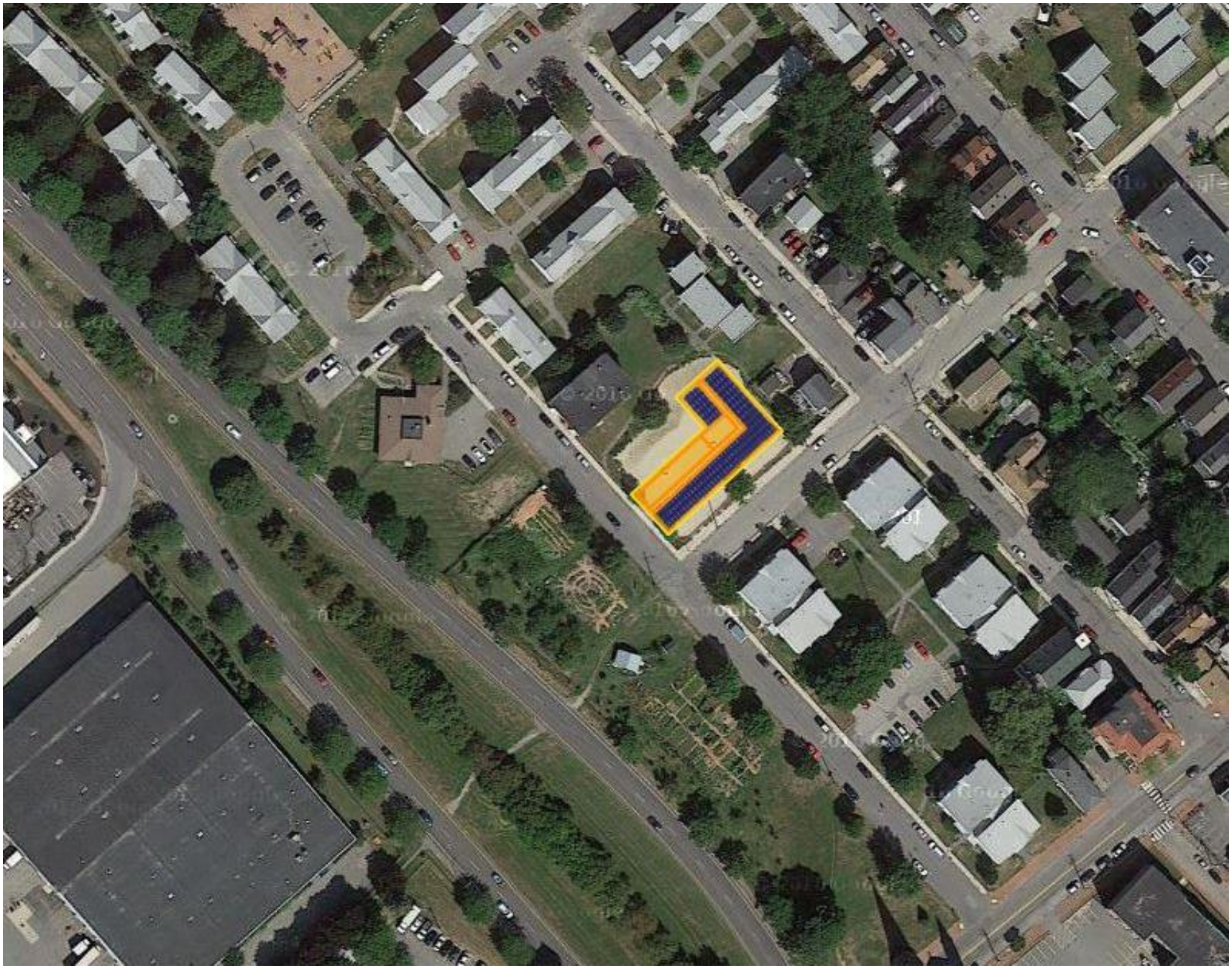
55.95 kW_{DC} Photovoltaic System
Annual Production Estimate: 60,823 kWh



ReVision Energy

142 Presumpscot Street
Portland, ME 04103
(207) 221-6342

Customer Name:

Bayside Anchor (RFP)
81 East Oxford Street
Portland, ME 04101

System Type:

Photovoltaic Array

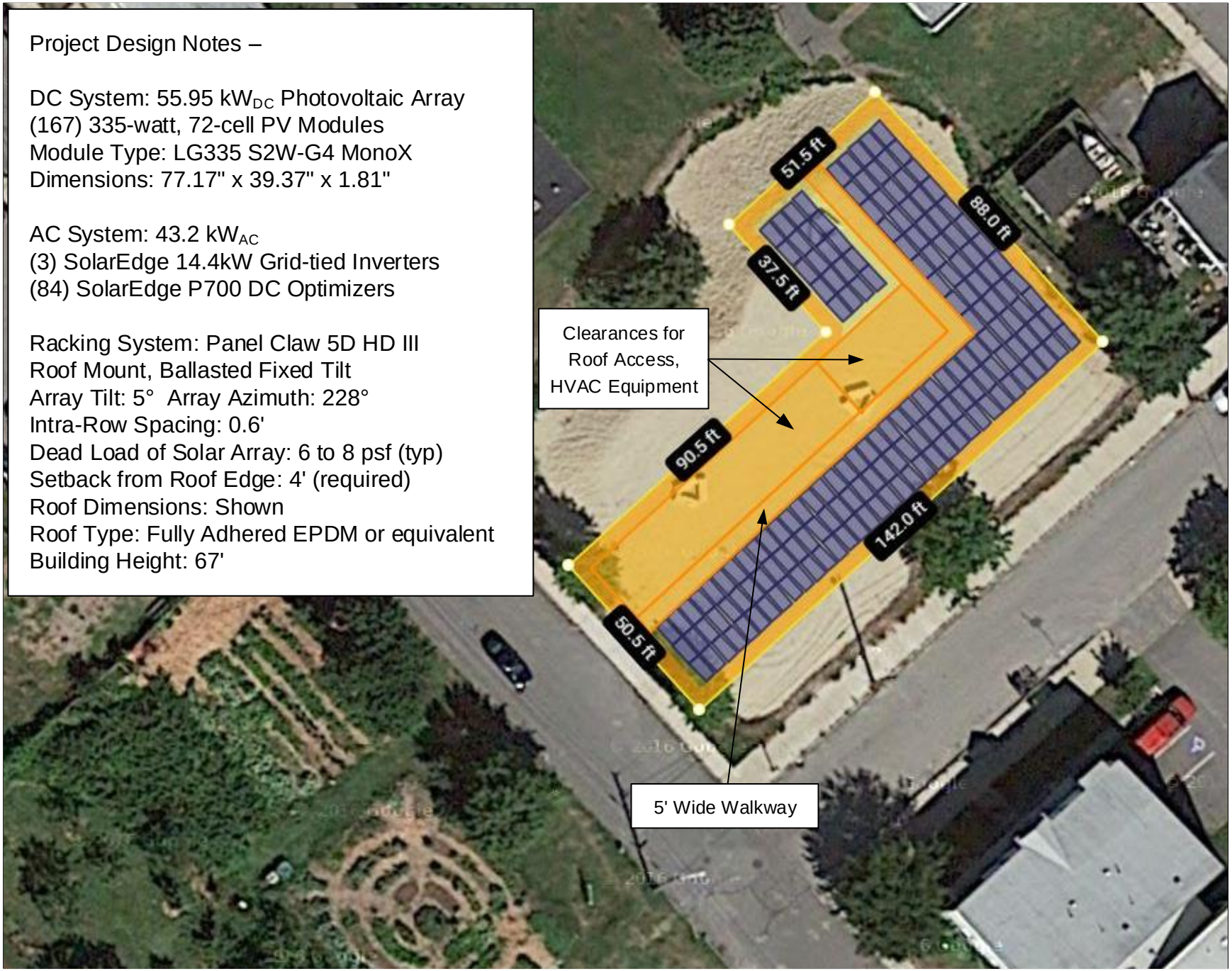
Designed by: LB

Date: June 24, 2016

SITE PLAN

SHEET A01

55.95 kW_{DC} Photovoltaic System
Annual Production Estimate: 60,823 kWh



Project Design Notes –

DC System: 55.95 kW_{DC} Photovoltaic Array
(167) 335-watt, 72-cell PV Modules
Module Type: LG335 S2W-G4 MonoX
Dimensions: 77.17" x 39.37" x 1.81"

AC System: 43.2 kW_{AC}
(3) SolarEdge 14.4kW Grid-tied Inverters
(84) SolarEdge P700 DC Optimizers

Racking System: Panel Claw 5D HD III
Roof Mount, Ballasted Fixed Tilt
Array Tilt: 5° Array Azimuth: 228°
Intra-Row Spacing: 0.6'
Dead Load of Solar Array: 6 to 8 psf (typ)
Setback from Roof Edge: 4' (required)
Roof Dimensions: Shown
Roof Type: Fully Adhered EPDM or equivalent
Building Height: 67'

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Designed by: LB

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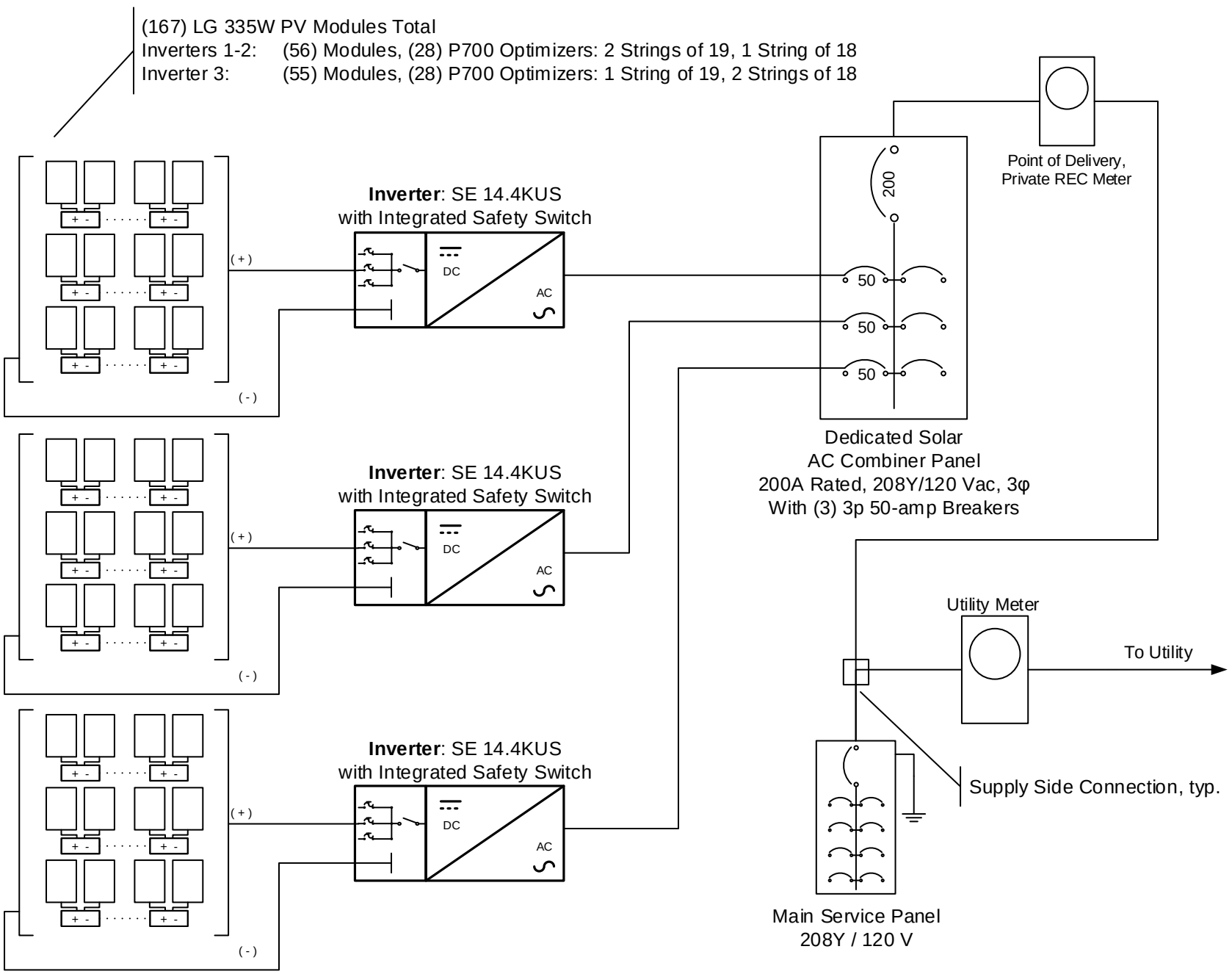
SITE PLAN

SHEET A02

55.95 kW_{DC} Photovoltaic System
Annual Production Estimate: 60,823 kWh



142 Presumpscot Street
Portland, ME 04103
(207) 221-6342

Customer Name:

Bayside Anchor (RFP)
81 East Oxford Street
Portland, ME 04101

System Type:

Photovoltaic Array

Designed by: LB

Date: June 24, 2016

ONE-LINE DIAGRAM

SHEET E01

55.95 kW_{DC} Photovoltaic System
Annual Production Estimate: 60,823 kWh

General Electrical Design Notes

- All equipment is outdoor rated and UL listed for 600V DC.
- All conductors are copper unless specified otherwise.
- System-wide voltage drop shall not exceed 3%.
- Inverter system is composed of module strings utilizing SolarEdge P700 optimizers (two modules per optimizer). String voltages are controlled by the 208V, 3-phase SolarEdge inverter (< 600 V DC).
- Lowest expected ambient temperature is based on ASHRAE Extreme Min for the specified location.
- Average high temperature is based on ASHRAE 2% Avg. for the specified location.
- Remote AC Disconnect Switch furnished per local AHJ requirement.
- Point of Interconnection: Supply Side Connection at main service.
- All photovoltaic equipment is rated for use and listed by a recognized laboratory.
- Grounding and bonding procedures for all photovoltaic equipment comply with NEC 2014.
- Rapid shutdown requirements are in accordance with NEC 690.12.
- Conduit between subarrays, combiners, and disconnects shall take the shortest reasonable path.
- Space requirements for electrical equipment shall comply with NEC Article 110.
- Any plaques shall be of metal or plastic construction, with engraved or machine printed lettering, or electro-plating, in a red background with white lettering, a minimum of 3/8" height and all capital letters.

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Customer Name:

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System Type:

Photovoltaic Array

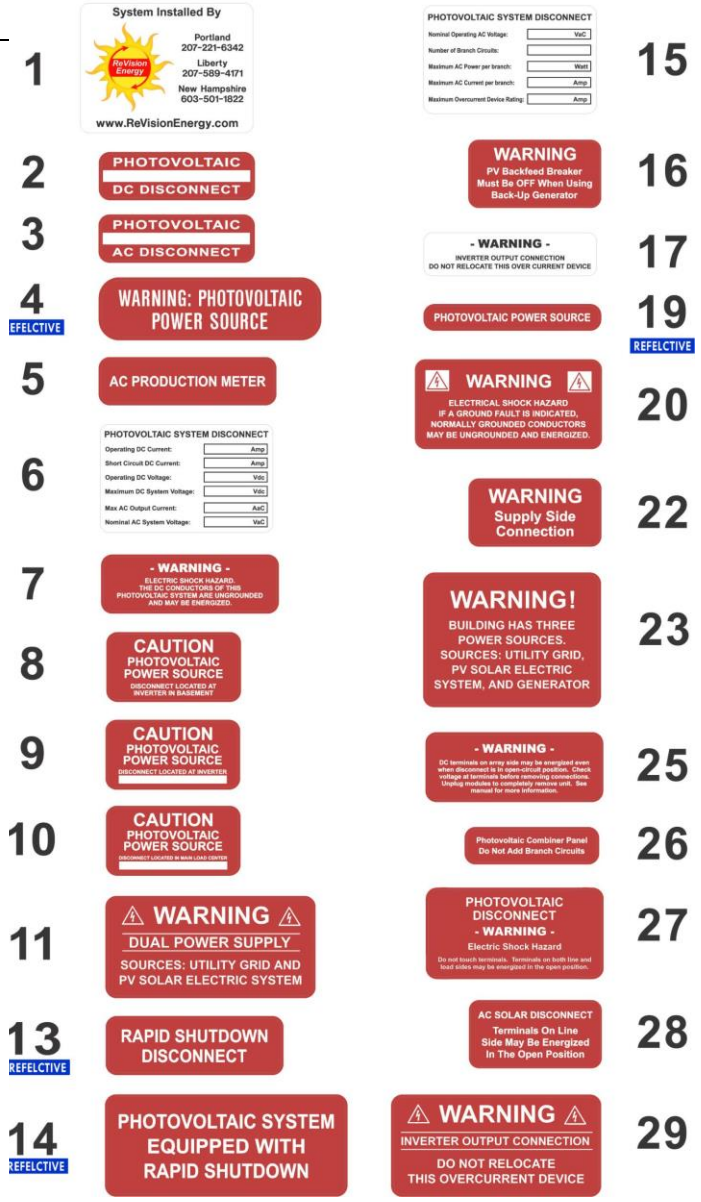
Designed by: LB

Date: June 24, 2016

ONE-LINE DIAGRAM

SHEET E02

Label No.	Code Reference
1	Customer Courtesy
2	690.13(B), 690.15(A)(4)
3	690.13(B), 690.15(A)(4)
4	690.31(G)(3), 690.31(G)(4)
5	Customer Courtesy
6	690.13(B), 690.53
7	690.35(F)
8	705.10
9	705.10
10	705.10
11	690.56(B), 690.64, 705.12(D)(3)
13	690.12(5)
14	690.12, 690.56(C)
15	690.13(B), 690.53
16	705.12(D)
17	705.12(D)(2)(3b)
19	690.13(B), 690.15(A)(4)
20	690.5(C)
22	705.12(D)(3)
23	690.56(B), 690.64, 705.12(D)(3)
25	690.17(E)
26	705.12(D)(3)
27	690.17(E)
28	690.17(E)
29	705.12(D)(2)(3b)



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LABELING

SHEET E03