PROJECT SUMMARY:

THE PROJECT SCOPE INCLUDES THE DESIGN, SPECIFICATION, PROCUREMENT, INSTALLATION AND COMMISSIONING OF A COMPLETE, TURN-KEY, GRID-TIED PHOTOVOLTAIC ELECTRIC SYSTEM.

MODULE TYPE	(14) Q CELL Q.PEAK-G4.1 305
INVERTER	(1) SE3800H-US
OPTIMIZER	(14) SOLAREDGE P320
ARRAY PITCH	40°
ARRAY AZIMUTH	130°
RACKING	IRONRIDGE XR100 ALUMINUM RAIL
ATTACHMENT	ALUMINUM L-FEET WITH SS LAG SCREWS, 3 X5/16

AUTHORITIES HAVING JURISDICTION:

BUILDING AUTHORITY	PORTLAND MAINE
ELECTRICAL AUTHORITY	PORTLAND MAINE
ZONING/PLANNING AUTHORITY	PORTLAND MAINE
ELECTRICAL UTILITY	CENTRAL MAINE POWER

DESIGN CRITERIA:

OCCUPANCY	RESIDENTIAL
DESIGN WIND LOAD	100 MPH
RISK CATEGORY	I
GROUND SNOW LOAD	60 PSF
EXPOSURE CATEGORY	C
ROOF HEIGHT	20' ABOVE GRADE TO EAVES
ROOF COMPOSITION	ASPHALT SHINGLE
RAFTER	2"X8"
RAFTER SPACING	16" O.C.

SHEET LIST:

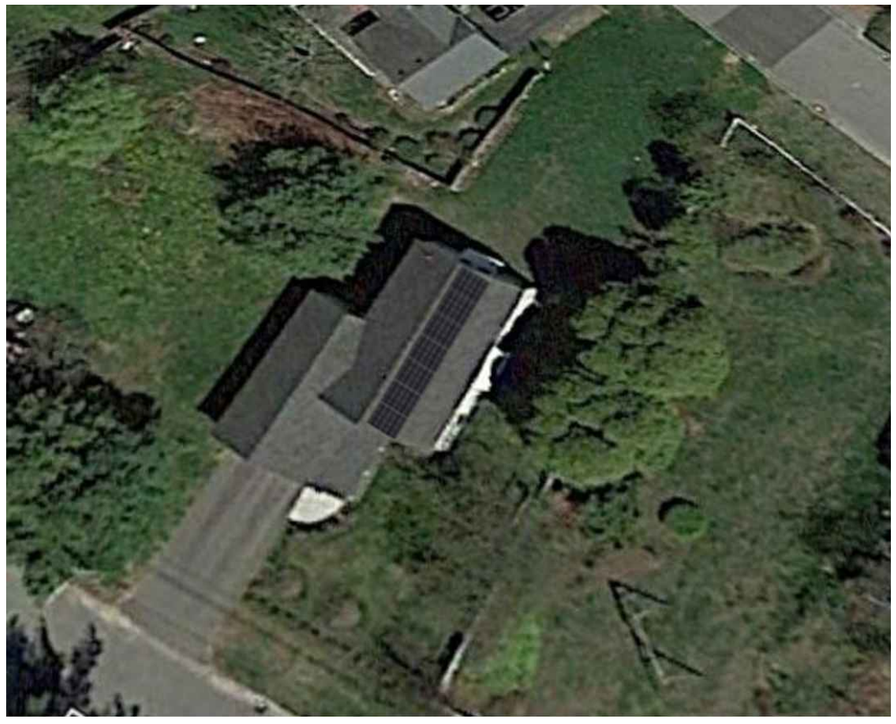
G001	TITLE SHEET
A001	SITE PLAN
A002	MODULE LAYOUT
E001	ONE-LINE DIAGRAM

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH LOCAL AND STATE ORDINANCES AND BUILDING CODES.
2. ELECTRICAL INSTALLATION SHALL COMPLY WITH STATE AND LOCALLY ADOPTED ELECTRICAL CODE.
3. ROOFTOP PENETRATIONS SHALL BE SEALED.
4. ALL EQUIPMENT SHALL BE LISTED AND TESTED BY A RECOGNIZED LABORATORY.
5. SYSTEM SHALL CONFORM TO RAPID SHUTDOWN REQUIREMENTS PER NEC 690.
6. CONDUIT RUNS BETWEEN SUB-ARRAYS, COMBINERS, AND DISCONNECTS SHALL BE INSTALLED IN THE MOST DIRECT ROUTE POSSIBLE.
7. ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MAINTAIN CLEARANCES REQUIRED BY NEC 110.
8. EQUIPMENT SHALL BE LABELED PER NEC 2017 REQUIREMENTS.

SYMBOLS:

- MOD — PV MODULE
- MLPE — MODULE LEVEL POWER ELECTRONIC / OPTIMIZER
- DCC — DC COMBINER AND DC DISCONNECT
- DC / AC — PV DC TO AC INVERTER
- 60A — ENCLOSED CIRCUIT BREAKER
- M — POWER METER
- FUSED DISCONNECT SWITCH
- NON-FUSED DISCONNECT SWITCH



REVISION ENERGY
142 PRESUMSCOT STREET
PORTLAND, ME 04103
(207)-221-6342

CLIENT:

ANGUS KING JR.
25 BAY STREET
PORTLAND MAINE, 04103

SYSTEM TYPE:

4.27KW GRID TIED SOLAR PHOTOVOLTAIC SYSTEM

DESIGNED BY:	GJD
REVISION:	0
PRINT SIZE:	11" X 17"
DATE:	3/9/2018

DWG TITLE:

TITLE SHEET

DWG NUMBER:

G001