KINGSTON GARDINER TS UNITY ROAD

PART OF LOT 12, CONCESSION 6, CITY OF KINGSTON, ON

SOLAR ELECTRIC SYSTEM PROJECT - 10 MW AC

VICINITY MAP:

PROJECT SCOPE:

DRAWING INDEX:

PROJECT

THE PROPOSED PROJECT IS A RENEWABLE ENERGY GENERATION FACILITY WHICH WILL USE SOLAR PHOTOVOLTAIC TECHNOLOGY TO GENERATE ELECTRICITY. ELECTRICITY GENERATED BY SOLAR PHOTOVOLTAIC PANELS WILL BE CONVERTED FROM DIRECT CURRENT (DC) TO ALTERNATING CURRENT (AC) BY INVERTERS, WHICH WILL ALSO STEP-UP THE VOLTAGE TO 44 KV PRIOR TO BEING CONNECTED TO THE EXISTING LOCAL DISTRICTION LINE, TO MEET ONTARIO POWER AUTHORITY'S (OPA) FEED-IN-TARIFF (FIT) PROGRAM REQUIREMENTS, A SPECIFIC PERCENTAGE OF EQUIPMENT WILL BE MANUFACTURED IN ONTARIO. THIS PROJECT IS CLASSIFIED AS A CLASS 3 SOLAR FACILITY AND THEREFORE REQUIRES A RENEWABLE ENERGY APPROVAL (REA).

THE SYSTEM WILL BE INTERCONNECTED AND WILL BE OPERATED IN PARALLEL WITH THE ENERGY PROVIDER'S ELECTRIC GRID AS PER THE REQUIREMENTS OF THE ONTARIO ELECTRICAL SAFETY CODE (DESC).

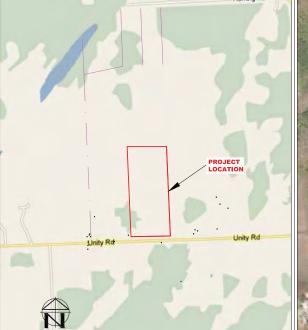
01 TITLE SHEET 101 EXISTING SITE PLAN 102 ARRAY PLAN

ARRAY PLAN
EQUIPMENT SPECIFICATIONS
SINGLE LINE DIAGRAM
TRACKER DETAILS

STREET MAP:

AERIAL VIEW:

PROJECT TEAM:



Blue Oak Energy Canada 2010 A1 - 594mm x 841mm

PROJECT LOCATION

Unity Rd

BING MAPS- DOWNLOADE! ON 22-03-2011

PROJECT CONTACT:

PROJECT: BELLEVILLE TS DEMORESTVILLE SOLAR PROJECT AXIO POWER CANADA INC/SUNEDISON CANADA 945 PRINCESS STREET, SUITE 252 KINGSTON, ON, K7L 3N6 CONTACT: ROBERT BARKLEY TEL: (613) \$45,0215 FAX: (613) 545,0692

DESIGN ENGINEERING FIRM:

BLUE OAK ENERGY 1560 DREW AVENUE DAVIS, CA 95618 CONTACT: RYAN ZAHNER, PE TEL: (530) 747.2026

ELECTRICAL ENGINEER: PRELIMINARY DRAWING PRELIMIN





Axio Power Canada Inc/ SunEdison Canada

945 PRINCESS STREET, SUITE 252 KINGSTON, ON K7L 3N6

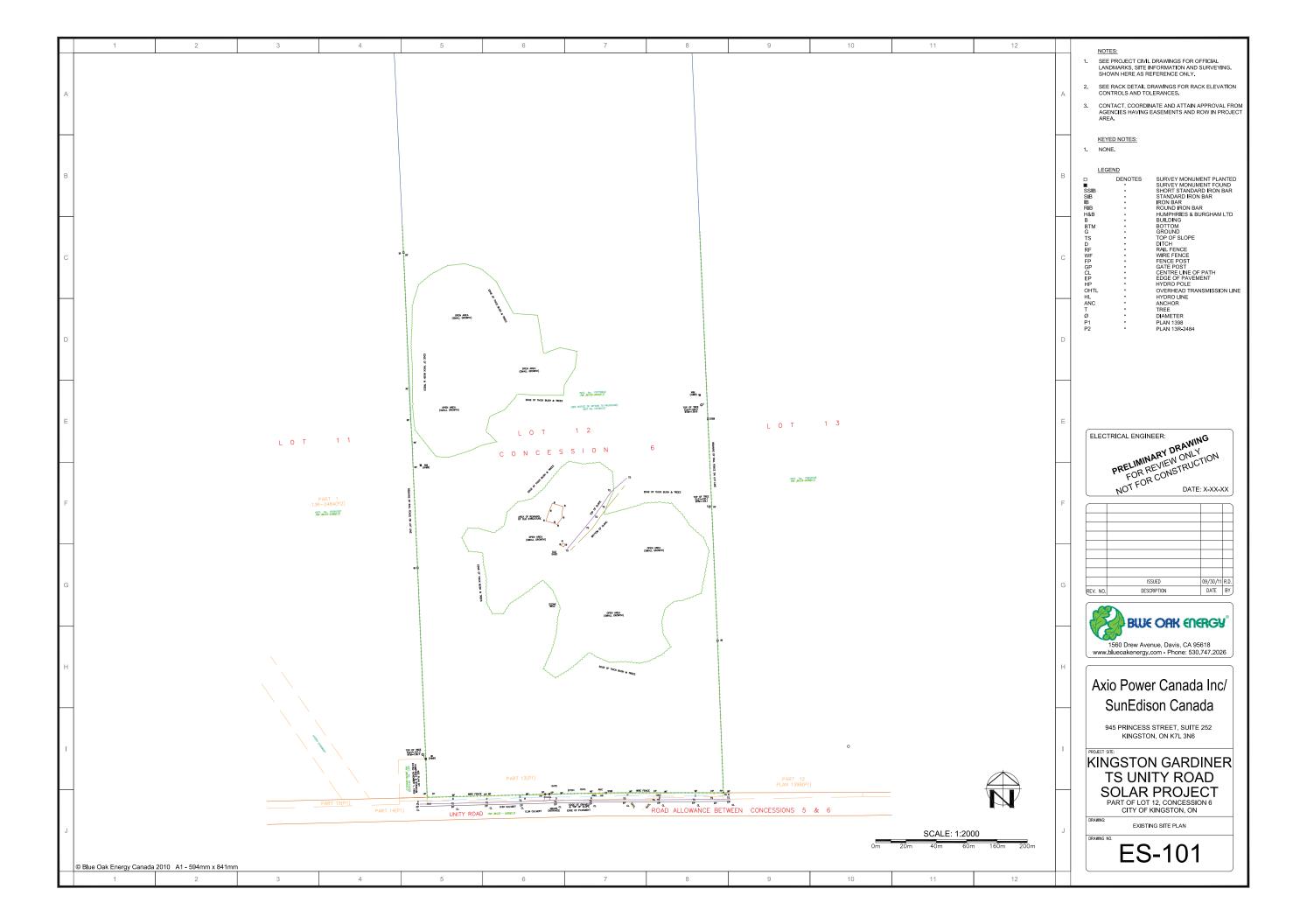
DDU ECT SITE

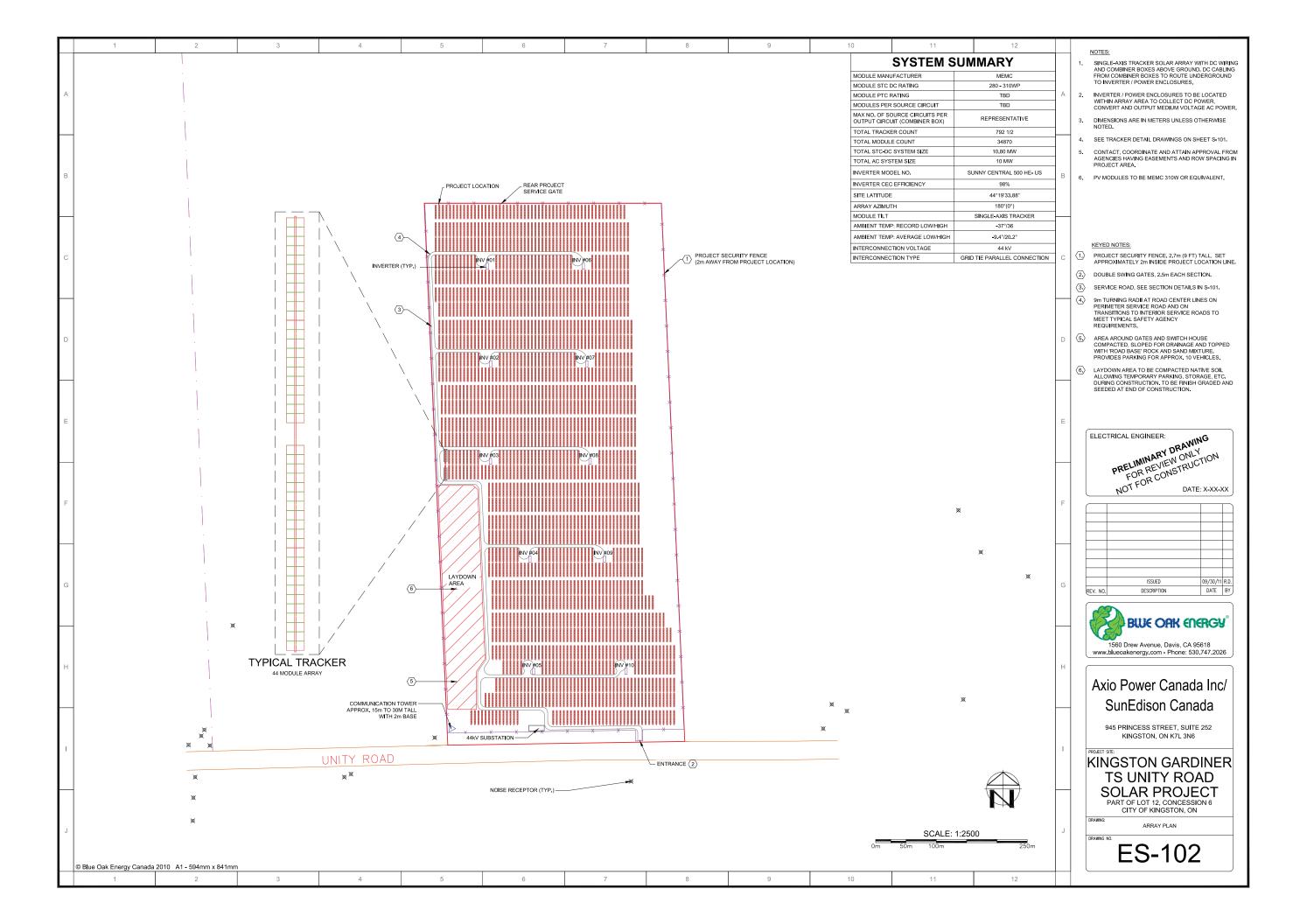
KINGSTON GARDINER TS UNITY ROAD SOLAR PROJECT

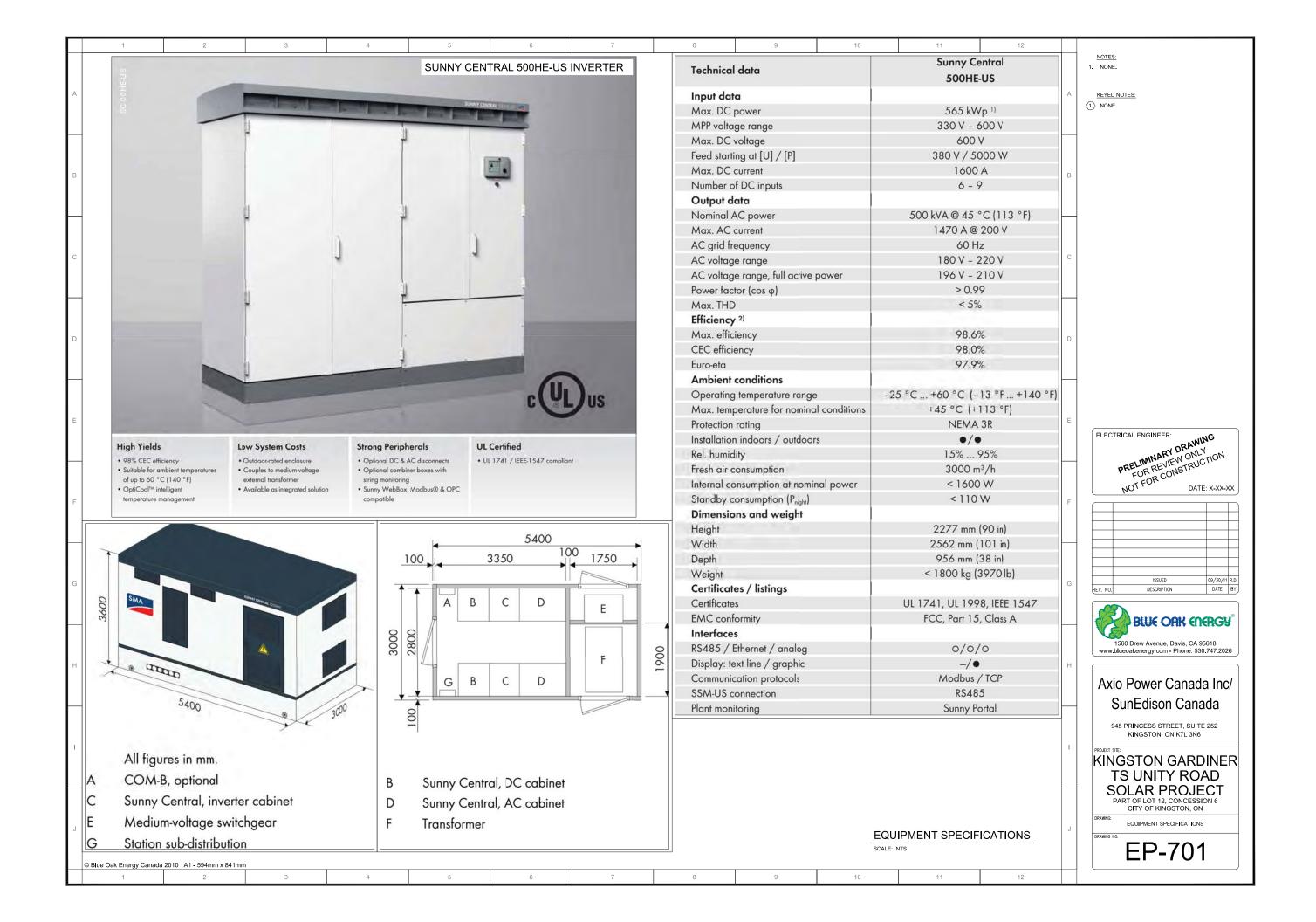
PART OF LOT 12, CONCESSION 6 CITY OF KINGSTON, ON

WING: TITLE SHEET

G-001



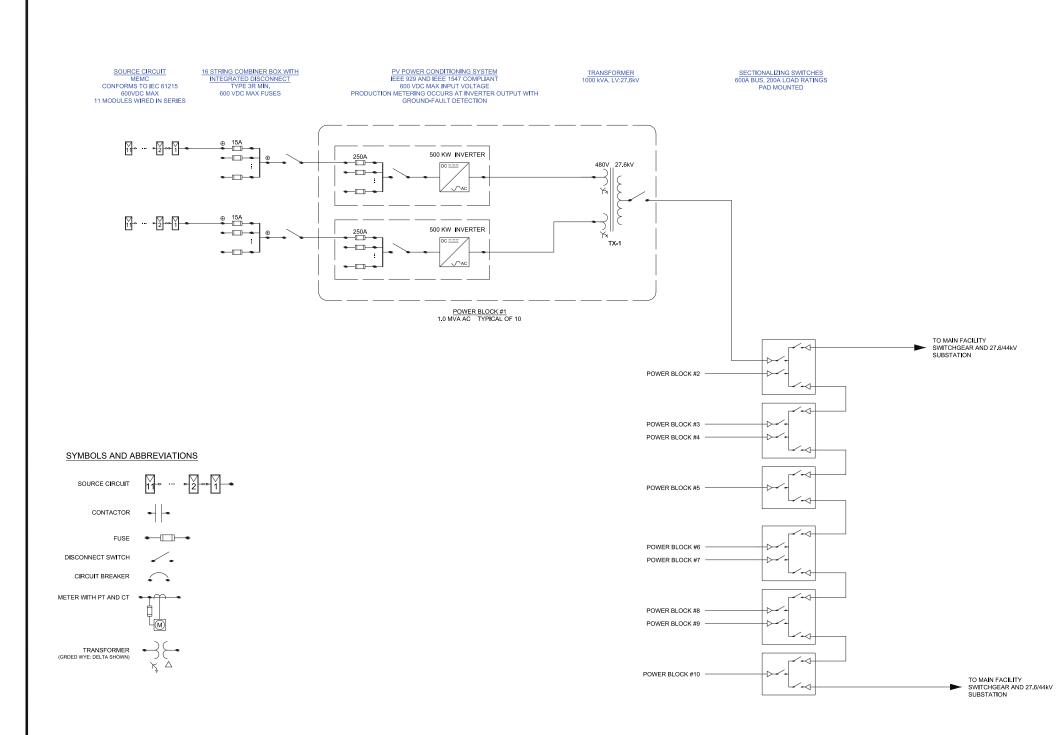




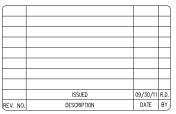
PV SYSTEM GENERATOR CALCULATIONS			
MEMC 310W (TYPICAL)			MODULE
280 - 310WP			MODULE STC POWER
SINGLE-AXIS TRACKER			MODULE TILT
180°			ARRAY AZIMUTH
SITE TOTAL		GENERATOR, TYPICAL OF 10	
SMA		SMA	GENERATOR MANUFACTURER
Y CENTRAL 500HE		SUNNY CENTRAL 500HE	GENERATOR MODEL
34870		3487	NUMBER OF MODULES PER GENERATOR
10.80 MW		1.08 MW	DC RATING
10 MW		1.0 MW	AC NAMEPLATE RATING
3170		317	NUMBER OF SOURCE CIRCUITS
220		22	SOURCE CIRCUIT COMBINERS

GENERAL NOTES:

THIS DRAWING IS FOR PRELIMINARY DESIGN PURPOSES ONLY. THE DESIGN SHOWN HERE IS NOT FOR CONSTRUCTION.



PRELIMINARY DRAWING
PRELIMINARY DRAWING
PREVIEW ONLY
FOR REVIEW ONLY
NOT FOR CONSTRUCTION ELECTRICAL ENGINEER:





Axio Power Canada Inc/ SunEdison Canada

945 PRINCESS STREET, SUITE 252 KINGSTON, ON K7L 3N6

KINGSTON GARDINER TS UNITY ROAD **SOLAR PROJECT**

PART OF LOT 12, CONCESSION 6 CITY OF KINGSTON, ON

SINGLE LINE DIAGRAM

EP-801

