

June 19, 2014

Agatha Garcia-Wright
Ontario Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, ON M4V 1L5

Dear Ms. Garcia-Wright:

**Subject: Solar Spirit 4 Solar Project
Proposed Technical Project Changes**

SunEdison Canada ("SunEdison" – i.e., the Project "Proponent") is proposing to develop and operate a 10 megawatt (MW) solar photovoltaic (solar PV) facility titled the Solar Spirit 4 Solar Project ("Project"). The proposed Project location is on Lot 14 and Lot 15 of Concession 4 in the City of Belleville. The Project location is situated on Blessington Road. The Project is being constructed in accordance with Renewable Energy Approval (REA) No. 7420-9A6KGN, issued by the Ministry of the Environment (MOE) on September 13, 2013. We would appreciate confirmation of the Project Technical Change categorization for these proposed amendments within the following two weeks.

The original proposal requires two minor amendments in order to take into consideration site optimization undertaken during the preparation of the final design. The two changes are listed below:

- Change in the internal alignment of the access roads, fencing and solar panels. No change to the Project footprint will occur.
- Change in the inverter model proposed for the Project. An updated Noise Assessment study provides a revised assessment on the sound levels produced by the Project.

This letter summarizes the proposed changes to the Project that necessitate the REA amendment, including the rationale for the changes, and identifies the amendments to each of the supporting documents prepared for the REA application to incorporate the proposed Project changes. This letter also provides an assessment of the potential for new negative effects not addressed in the initial REA supporting documentation, and makes a determination with respect to the category of the amendment.

1. Proposed Project Changes

The proposed changes to the Project requiring an amendment to the REA includes firstly, the change in the internal alignment of roads, fencing, and solar panels from that shown in the original site plan of May 22, 2013 (Attachment 1) and secondly the change in the inverter model and associated change in sound power levels.



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Table 1.1 provides a description of each proposed change, the rationale for the change, an assessment of potential for altered environmental effects and any additional mitigation or monitoring required.

Table 1-1 Table of Proposed Changes, Rationale for Change, Altered Effects and Additional Mitigation Measures and Monitoring

| Change | Rationale for Change | Altered Effect | Additional Mitigation Required | Additional Environmental Effects Monitoring |
|---|--|---|---------------------------------------|---|
| Access road, fencing, and solar panel internal arrangement. | Final design site optimization required a change to the internal design of the access roads, fencing, and solar panel arrangement. | n/a | n/a | n/a |
| Change to inverter model. | Availability of the inverter model required a change to a more readily available model. | General decrease in sound power levels at receptors, with one receptor increasing by only 0.2 dBA | Not required. | Not required – a post-construction noise audit is already required under the existing Project REA |

Attachment 2 contains the revised site plan, incorporating the necessary re-alignment of the access roads, fencing and solar panels, though, there has been no change to the design of the access road itself (i.e., road width, materials, construction methodology). Furthermore, there are no changes to the overall Project location boundary or any identified setbacks from water body or significant natural heritage features. All mitigation identified in the original REA application (e.g., sediment and erosion controls during construction, stormwater management measures) remain valid and will be applied or modified as necessary for the revised internal alignment of roads and solar panels.

The revised Noise Assessment Report, available under a separate cover and further discussed in Section 3, details the changes as a result of the proposed inverters.

As no material additional negative effects have been identified, the proposed changes are considered to be a Technical Amendment to the Project's existing REA.

2. Revisions to REA Documents

This section identifies the amendments to each of the supporting documents submitted with the original REA Application that are required to address the proposed Project change described in Section 1.

The site layouts identified in the following reports are replaced with the site layout contained in Attachment 2:

- Executive Summary – Figure 2.1 – Site Layout Plan
- Construction Plan Report – Appendix A: Site Layout



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- Design and Operations Report – Figure 2.1: Site Layout Plan
- Natural Heritage – Environmental Impact Study – Appendix A: Site Layout and Significant Natural Heritage Features
- Water Body – Environmental Impact Study – Appendix A: Site Layout

The Design and Operation Report and Construction Plan Report, both provided details on the originally proposed inverters. The new inverter details are available in the revised Noise Assessment Study Report and replace the original details provided in the Design and Operation and Construction Plan Report.

Further, as these changes occur within the previously permitted Project location, there are no changes to the Project that would affect natural heritage features or archaeological/heritage features, and therefore there is no requirement for revised confirmation letters from the Ontario Ministry of Natural Resources (MNR) or Ontario Ministry of Tourism, Culture and Sport (MTCS). MNR and MTCS are copied on this Proposed Project Change letter to notify them of the proposed changes.

No changes to any other Project reports are required, and no additional environmental impacts or mitigation measures were identified with respect to the identified Project change.

3. Revised Noise Assessment Study

The Noise Assessment Study was revised to address the proposed amendments of the revised inverter model. The revised *Noise Assessment Study Report for Solar Spirit 4 Solar Project*, conducted by Hatch Ltd. is provided under separate cover. The report concludes that the amended Project continues to meet MOE noise emission requirements. In general, a decrease in sound levels occurs at all but one point of reception, with decreases occurring to a maximum of 3.5 dBA. At the single point of reception with an increase, the change in sound power level is only 0.2 dBA. The overall highest sound level is 36.5 dBA at a point of reception.

4. Conclusion

Given that the proposed changes outlined in this letter result in predominantly decreases in noise levels at receptors, and all receptors remain compliant with relevant regulatory limits, it is our assessment that these proposed changes are Technical Changes and that a minor amendment to the existing REA for the Project is required.

In accordance with the requirements for proceeding with a Technical Change amendment we will proceed with preparing the necessary notifications in accordance with the requirements of Ontario Regulation 359/09. Once completed, information relating to this notification will be provided to the MOE for consideration.



Should you have any questions or wish to discuss this further, please contact the undersigned at 905-374-0701 x5280 or smale@hatch.ca.

Yours faithfully,

A handwritten signature in black ink, appearing to read "Sean K. Male", with a stylized flourish at the end.

Sean K. Male, M.Sc.
Environmental Coordinator
SM:kmv

Attachments

Attachment 1 – Original Site Plan
Attachment 2 – Revised Site Plan

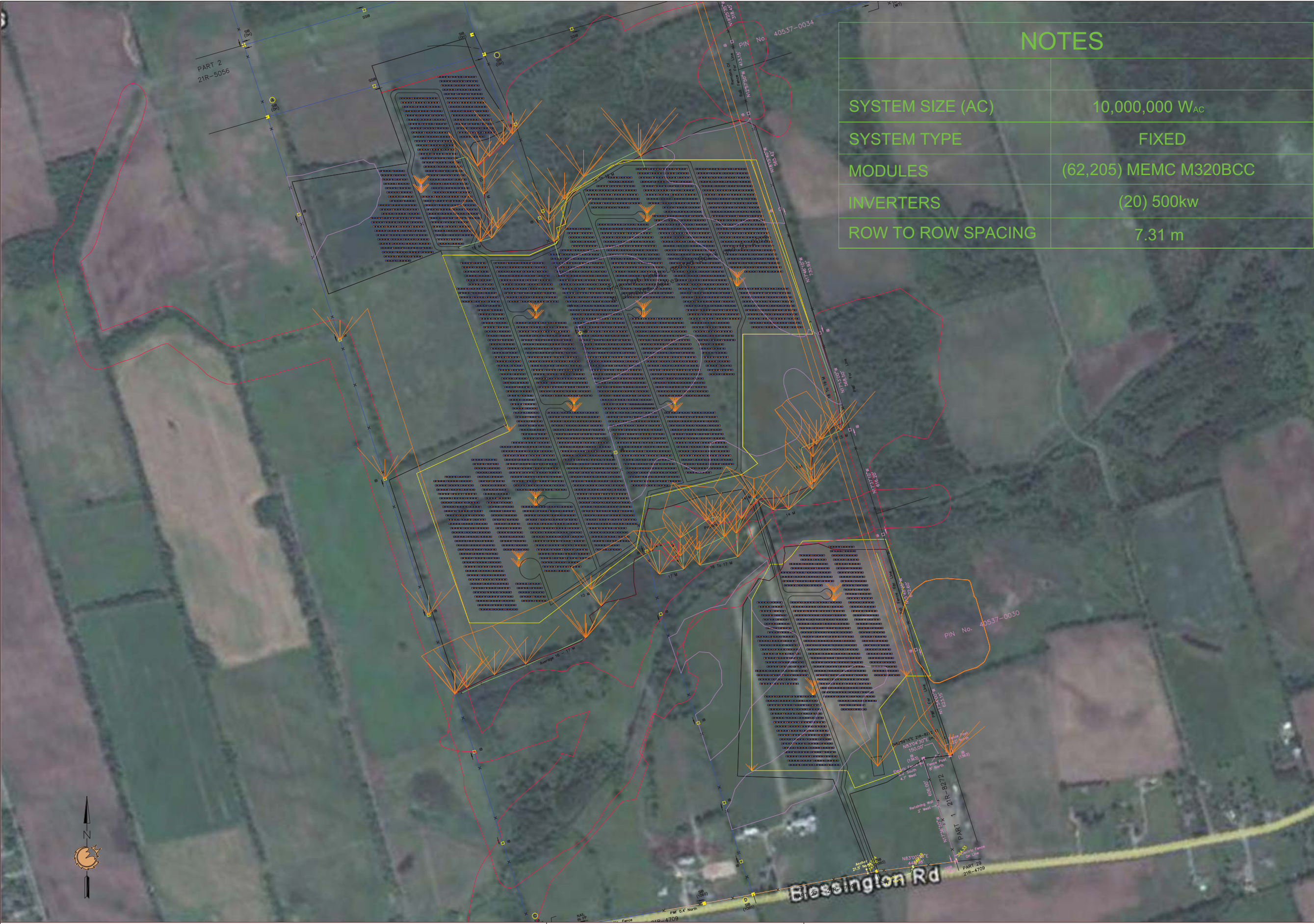
cc: C. Pollard, SunEdison
M. Chislett, SunEdison
M. Keyvani, MOE
I. Parrott, MOE
J. Halloran, MNR
L. Hatcher, MTCS
P. Campbell, MTCS

Attachment 1 Original Site Plan



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H341764-0000-07-124-0024, Rev. 2



NOTES

| | |
|--------------------|----------------------------|
| SYSTEM SIZE (AC) | 10,000,000 W _{AC} |
| SYSTEM TYPE | FIXED |
| MODULES | (62,205) MEMC M320BCC |
| INVERTERS | (20) 500kw |
| ROW TO ROW SPACING | 7.31 m |

| | |
|--------------------------------|--------------|
| DATE | MAY 22, 2013 |
| DRAWN | JL |
| REVISION | |
| 23AUG12 - FOR REA COORDINATION | |
| 26NOV12 - FOR REA COORDINATION | |
| - | |
| - | |
| - | |
| - | |
| - | |

SOLAR ELECTRIC SYSTEM CLIENT:

ADDRESS 1
ADDRESS 2

595 ADELAIDE STREET,
SUITE 400, TORONTO
ON, M5A 1N8



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SHEET NO.

SCALE

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PROJECT NUMBER
ON-11-0763

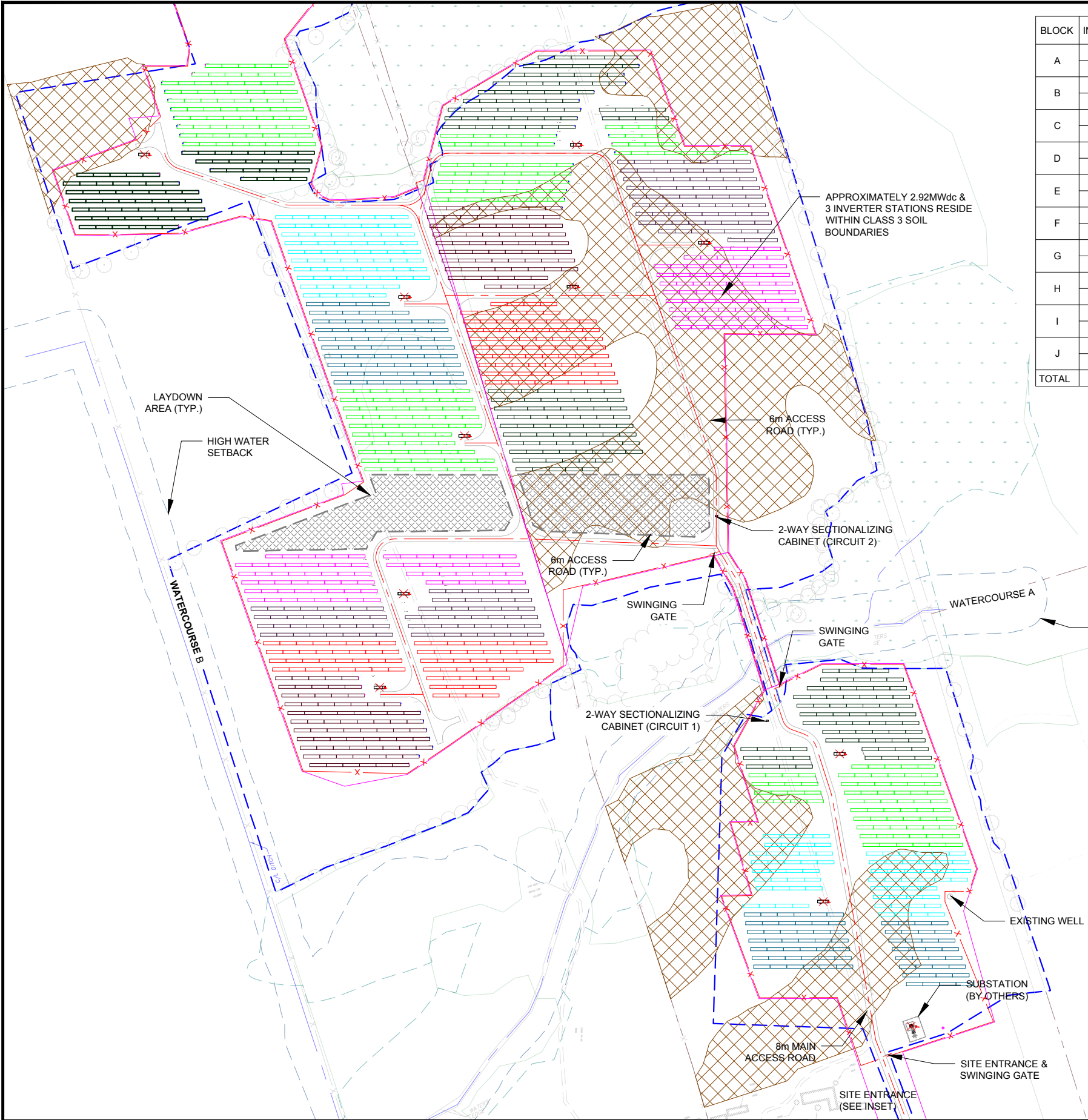
TITLE
NEAR BLESSINGTON RD &
FORSYTHE RD, BELLEVILLE ON

PRELIMINARY DESIGN
SOLAR SPIRIT 4

Attachment 2 Revised Site Plan



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| BLOCK | INVERTER | MODULE | MODULES / INVERTER | RACKS / INVERTER | DC CAPACITY (W) | DC / AC RATIO |
|-------|----------|---------|--------------------|------------------|-----------------|---------------|
| A | 1 | F330BBC | 2,664 | 74 | 879,120 | 1.76 |
| | 2 | F330BBC | 2,664 | 74 | 879,120 | 1.76 |
| B | 1 | F330BBC | 2,700 | 75 | 891,000 | 1.78 |
| | 2 | F330BBC | 2,700 | 75 | 891,000 | 1.78 |
| C | 1 | F330BBC | 2,700 | 75 | 891,000 | 1.78 |
| | 2 | F330BBC | 2,700 | 75 | 891,000 | 1.78 |
| D | 1 | F330BBC | 2,700 | 75 | 891,000 | 1.78 |
| | 2 | F330BBC | 2,700 | 75 | 891,000 | 1.78 |
| E | 1 | F330BBC | 2,664 | 74 | 879,120 | 1.76 |
| | 2 | F330BBC | 2,664 | 74 | 879,120 | 1.76 |
| F | 1 | F330BBC | 2,700 | 75 | 891,000 | 1.78 |
| | 2 | F330BBC | 2,700 | 75 | 891,000 | 1.78 |
| G | 1 | F330BBC | 2,664 | 74 | 879,120 | 1.76 |
| | 2 | F330BBC | 2,664 | 74 | 879,120 | 1.76 |
| H | 1 | F330BBC | 2,700 | 75 | 891,000 | 1.78 |
| | 2 | F330BBC | 2,700 | 75 | 891,000 | 1.78 |
| I | 1 | F330BBC | 2,700 | 75 | 891,000 | 1.78 |
| | 2 | F330BBC | 2,700 | 75 | 891,000 | 1.78 |
| J | 1 | F330BBC | 2,664 | 74 | 879,120 | 1.76 |
| | 2 | F330BBC | 2,664 | 74 | 879,120 | 1.76 |
| TOTAL | 20 | | 53,712 | 1,492 | 17,724,960 | |

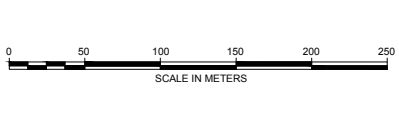
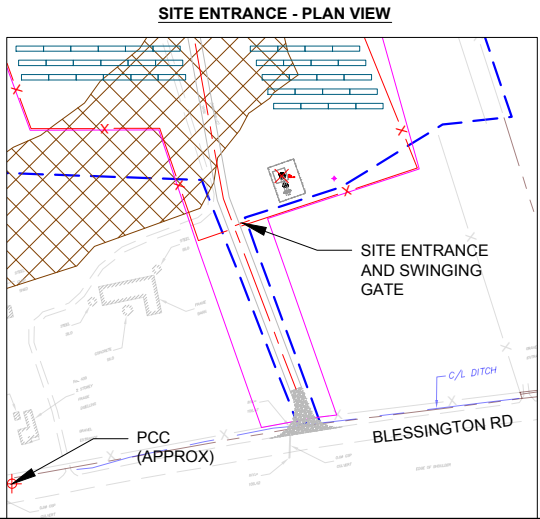
| LEGEND | |
|--------|-----------------------------|
| | PROPERTY BOUNDARY |
| | PROJECT BOUNDARY |
| | PROPOSED GRAVEL ACCESS ROAD |
| | 4x9 RACK AT 30° TILT |
| | PROPOSED FENCE |
| | AC COLLECTOR |
| | I-HOUSE 2x500kW |
| | CLASS 3 SOILS |
| | EXISTING WETLAND |
| | EXISTING WOODLAND |

NOTES

- SITE LOCATION: LAT 44.9861° N, LONG 75.0169° W

| PROJECT SPECIFICATIONS | |
|-----------------------------|-----------------|
| RACK TYPE | FIXED (4V x 9L) |
| MODULE TILT (DEG) | 30 |
| DC VOLTAGE | 1000v |
| STRING SIZE | 18 |
| MODULE COUNT | 53,712 @ 330w |
| MODULE TYPE | SE-F330BBC |
| DC:AC RATIO | 1.77 |
| ARRAY AZIMUTH | 180° (SOUTH) |
| INTERCONNECTION | 44kV |
| DC CAPACITY ON CLASS 3 SOIL | 2.92MWdc |

| SETBACK PARAMETERS | | |
|--------------------|-----------------|---------------|
| TO | FROM | MIN. DISTANCE |
| ACCESS ROAD | EQUIPMENT | 2m |
| ACCESS ROAD | PERIMETER FENCE | 1m |
| ACCESS ROAD | PROP. LINE | 2m |
| EQUIPMENT | EQUIPMENT | 3m |
| EQUIPMENT | PERIMETER FENCE | 5m |
| EQUIPMENT | PROP. LINE | 6m |



| | | | | | |
|------|------------|--------------------|-----|-------|------|
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| PR-1 | 06/03/2014 | PRELIMINARY LAYOUT | RPS | RJH | - |
| PR-0 | 05/16/2014 | PRELIMINARY | RJH | - | - |
| NO. | DATE | REVISION | BY | CHK'D | APVD |

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| SOLAR PLANT PRELIMINARY DRAWINGS | | |
|----------------------------------|-----------------|---------------------|
| SOLAR SPIRIT SOLAR PROJECT | | BELLEVILLE, ONTARIO |
| SITE PLAN | | |
| SCALE: AS SHOWN | PROJ. NO. 40093 | SHT. NO. E101 |

File Location: J:\40093 Solar Spirit\02_Electrical\Plan\Site
Drawing: Solar Plant Preliminary Drawings E101
Drawing Title: Solar Plant Preliminary Drawings E101
Drawing Date: 06/03/2014
Drawing By: RPS
Drawing Check: RJH
Drawing Appr: -
Drawing Scale: 1:1
Drawing Status: PRELIMINARY
Drawing To: PGF STATION, NYN 11X17L June 3, 2014 05:54MT COLOR (LW) CTR

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