



**BRIGHTFIELDS**  
DEVELOPMENT LLC

# Project Overview

**LEGEND**

- PROPERTY BOUNDARY & SOLAR CONTROLLED AREA
- CAMU AND SUPPORT AREA (BEAZER)
- EDUCATIONAL KIOSK
- PARKING LOT (20 SPACES)
- CONSERVATION EASEMENT (HELD BY CITY)
- APPROXIMATE LOCATION OF PROPOSED BIKE PATH
- FORMER PROCESS AREA SURFACE COVER
- PROPOSED VEGETATIVE BUFFER

**PRELIMINARY SYSTEM SIZE**

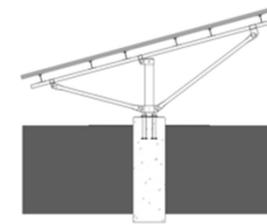
27.5 ACRES DRIVEN PILES  
 45.5 ACRES GROUND MOUNT  
 TOTAL: 73.0 ACRES  
 20.0 MW AC

**KEY**

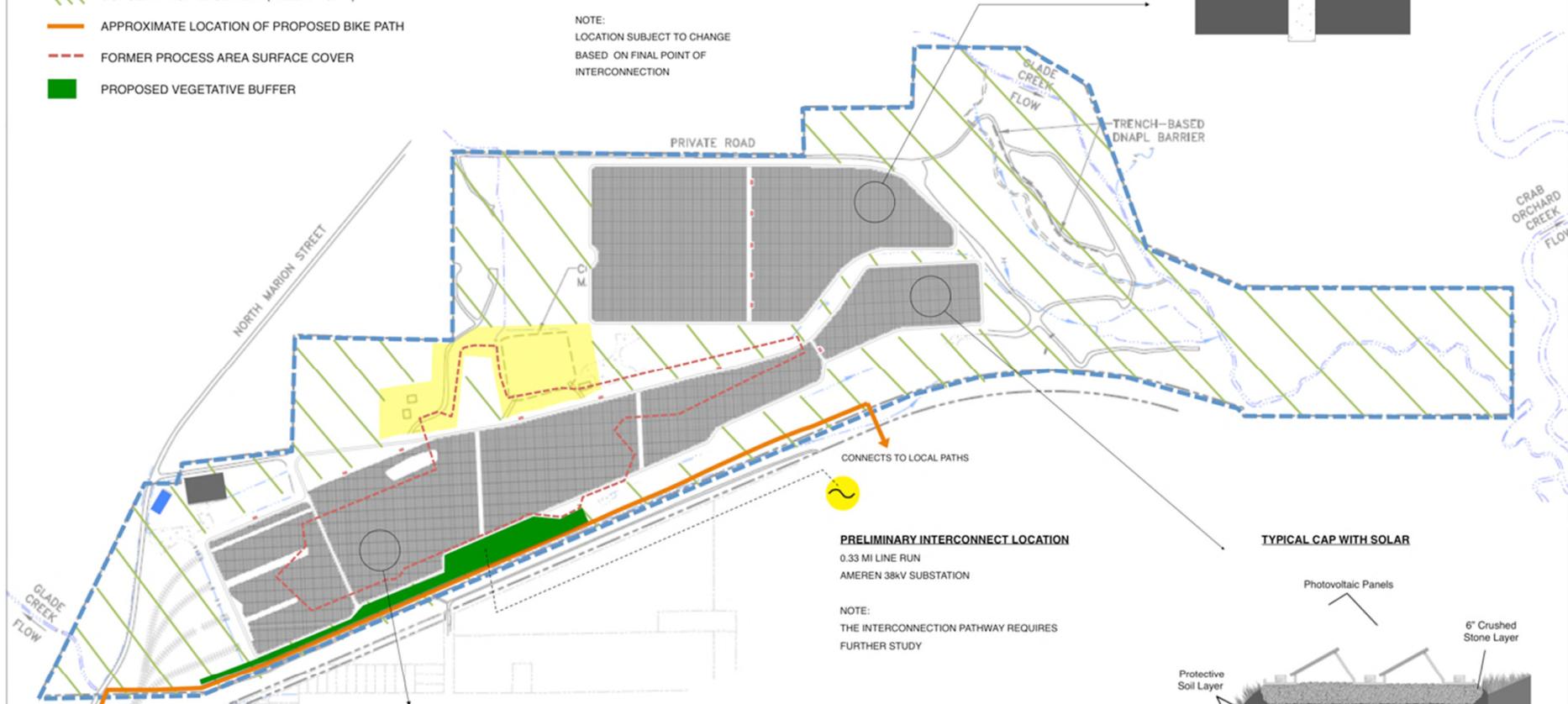
- APPROX. LOCATION OF EQUIPMENT PAD INVERTER / TRANSFORMER

NOTE:  
 LOCATION SUBJECT TO CHANGE  
 BASED ON FINAL POINT OF  
 INTERCONNECTION

**POLE MOUNT RACKING DETAIL**



180 DEG.

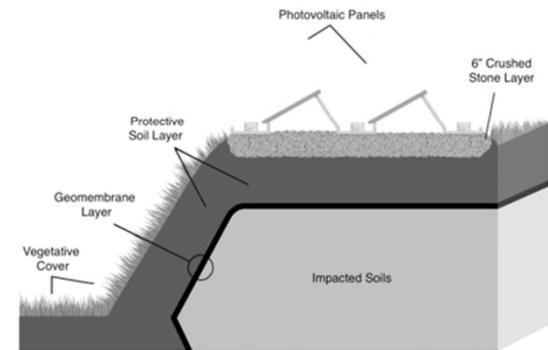


**PRELIMINARY INTERCONNECT LOCATION**

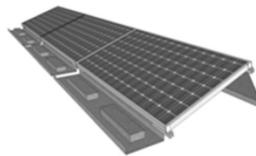
0.33 MI LINE RUN  
 AMEREN 38kV SUBSTATION

NOTE:  
 THE INTERCONNECTION PATHWAY REQUIRES  
 FURTHER STUDY

**TYPICAL CAP WITH SOLAR**



**SOLSTICE® GRAPHIC SCHEMATIC**



NOTE:  
 EACH BLOCK INCLUDES ONE 245W, 60  
 CELL PANEL AND INDIVIDUAL BALLASTED  
 MOUNTING. PANELS ARE ATTACHED WITH  
 T CLIPS AND CONNECTED BOTH EAST-  
 WEST (PANEL TO PANEL) AND NORTH -  
 SOUTH (RACK TO RACK).

ZONE	REV	DESCRIPTION	REVISED DATE	DATE	DWG BY	APV BY
	A	PRELIMINARY PV ARRAY LAYOUT, NOT FOR CONSTRUCTION	11-26-2012	NC		
REVISIONS						

**BEAZER EAST CARBONDALE**

1555 NORTH MARION STREET  
 CARBONDALE, ILLINOIS 62901



40 WALNUT STREET, SUITE 301  
 WELLESLEY, MA 02481  
 781-489-6209  
 INFO@BRIGHTFIELDSLLC.COM

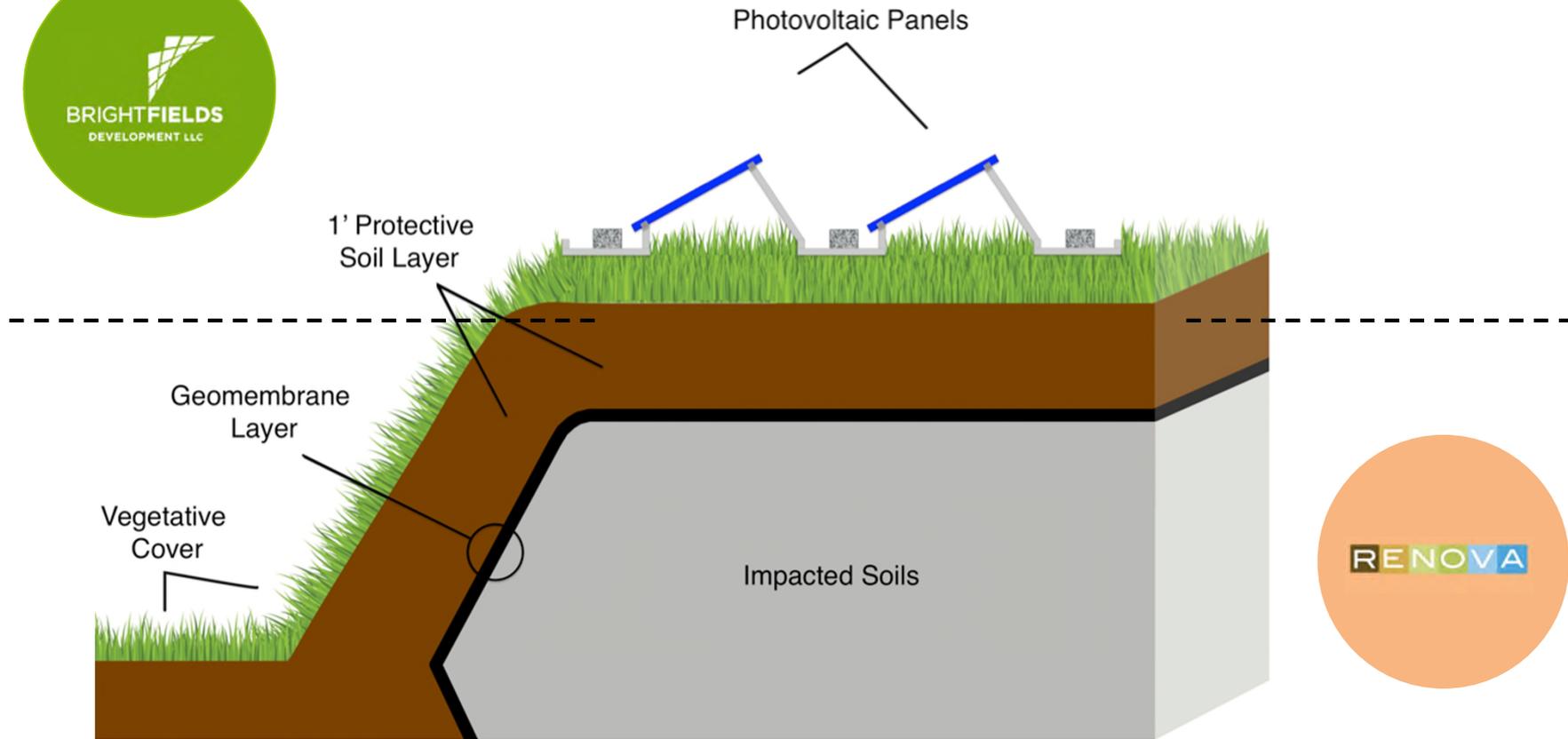
**PROPERTY MAP & ARRAY LAYOUT**

SOLSTICE® GROUND MOUNTED ARRAY  
 SHEET 1 OF 1

# Racking System – Low Profile Ground Mount



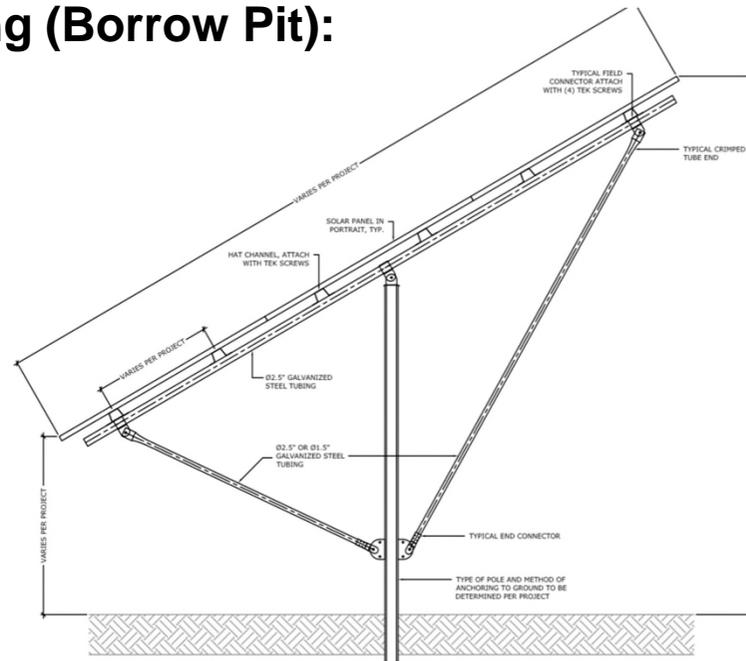
# How Our Solar Brownfields Work



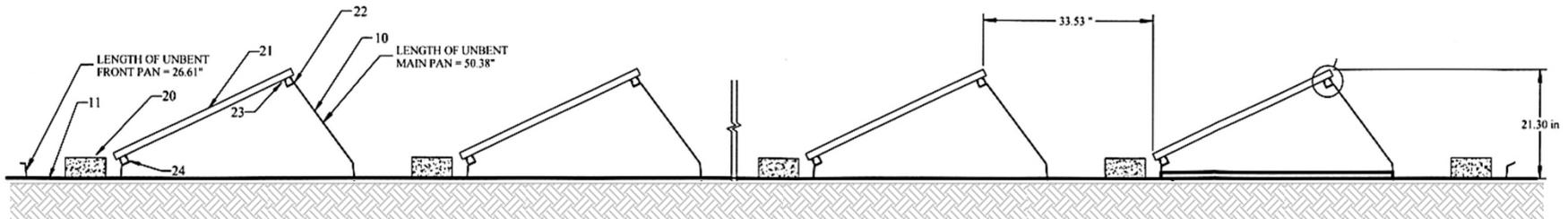
**Solar Project Details**

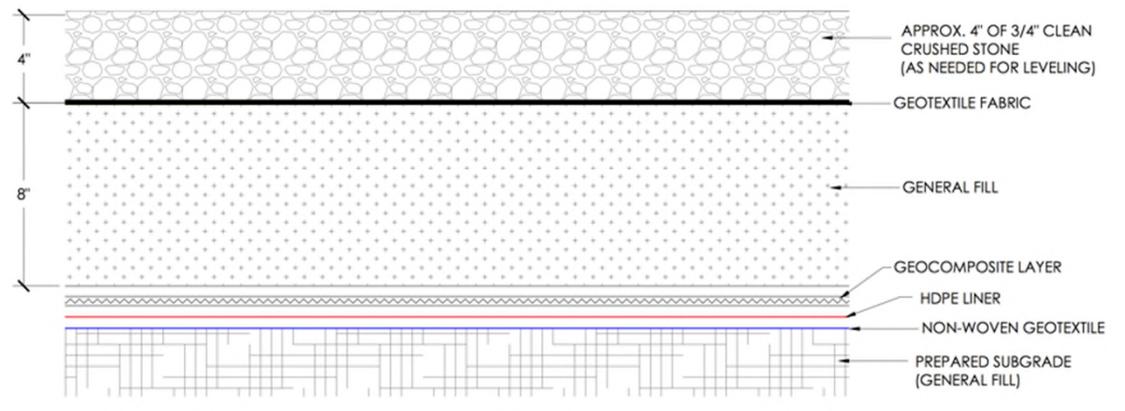
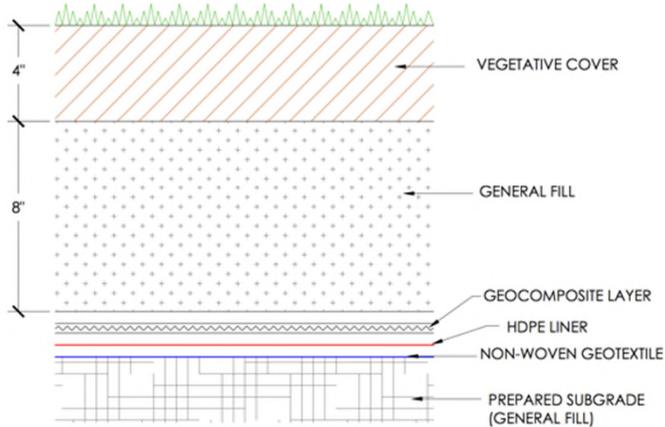
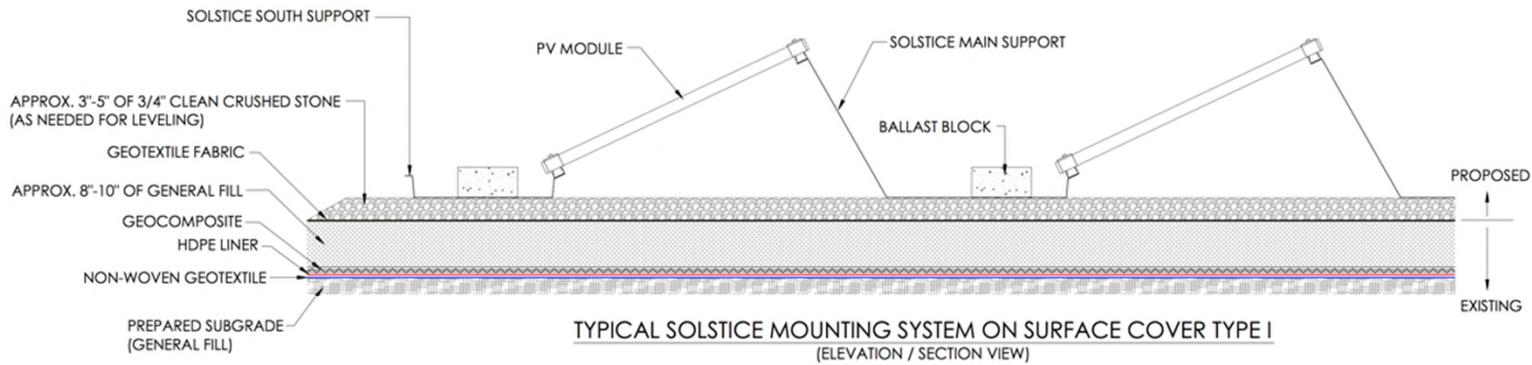


## Pole Driven Mounting (Borrow Pit):

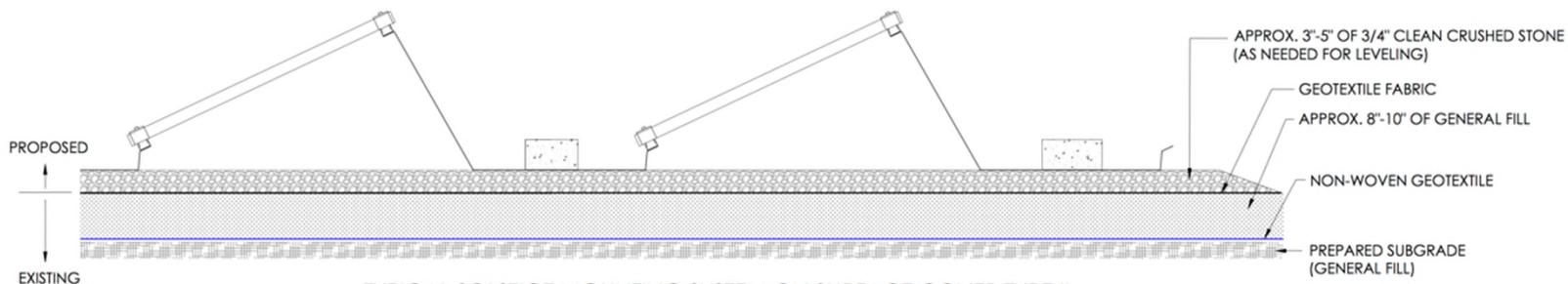


## Solstice® Ballast Mounting:

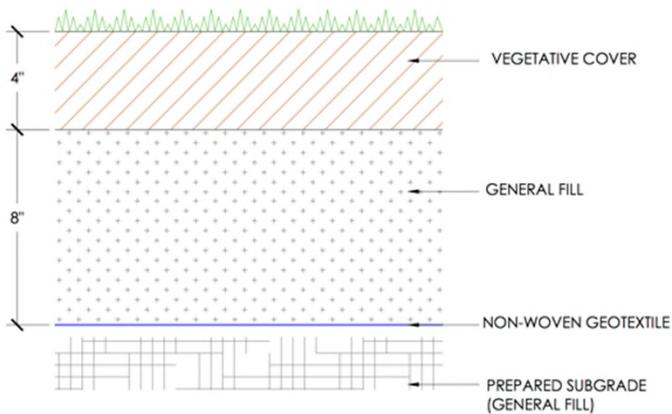




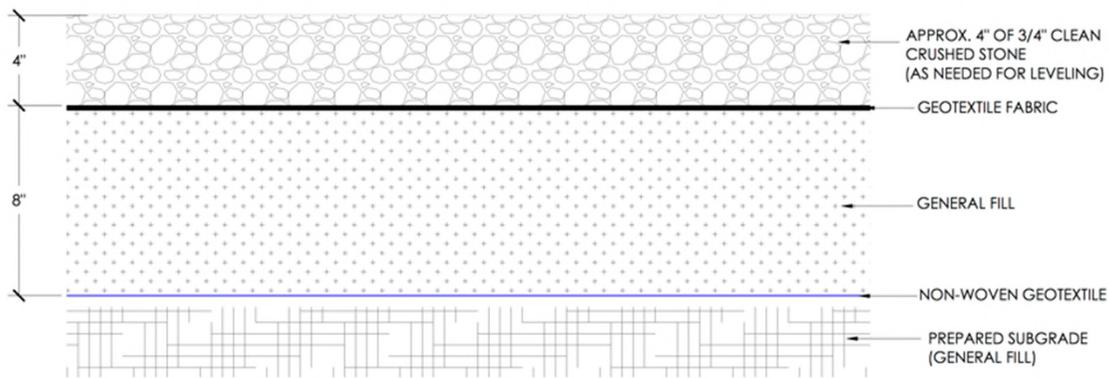
## Solar Project Details



TYPICAL SOLSTICE MOUNTING SYSTEM ON SURFACE COVER TYPE II  
(ELEVATION / SECTION VIEW)



EXISTING SURFACE COVER TYPE II (EXISTING CONDITIONS)  
(SECTION VIEW)

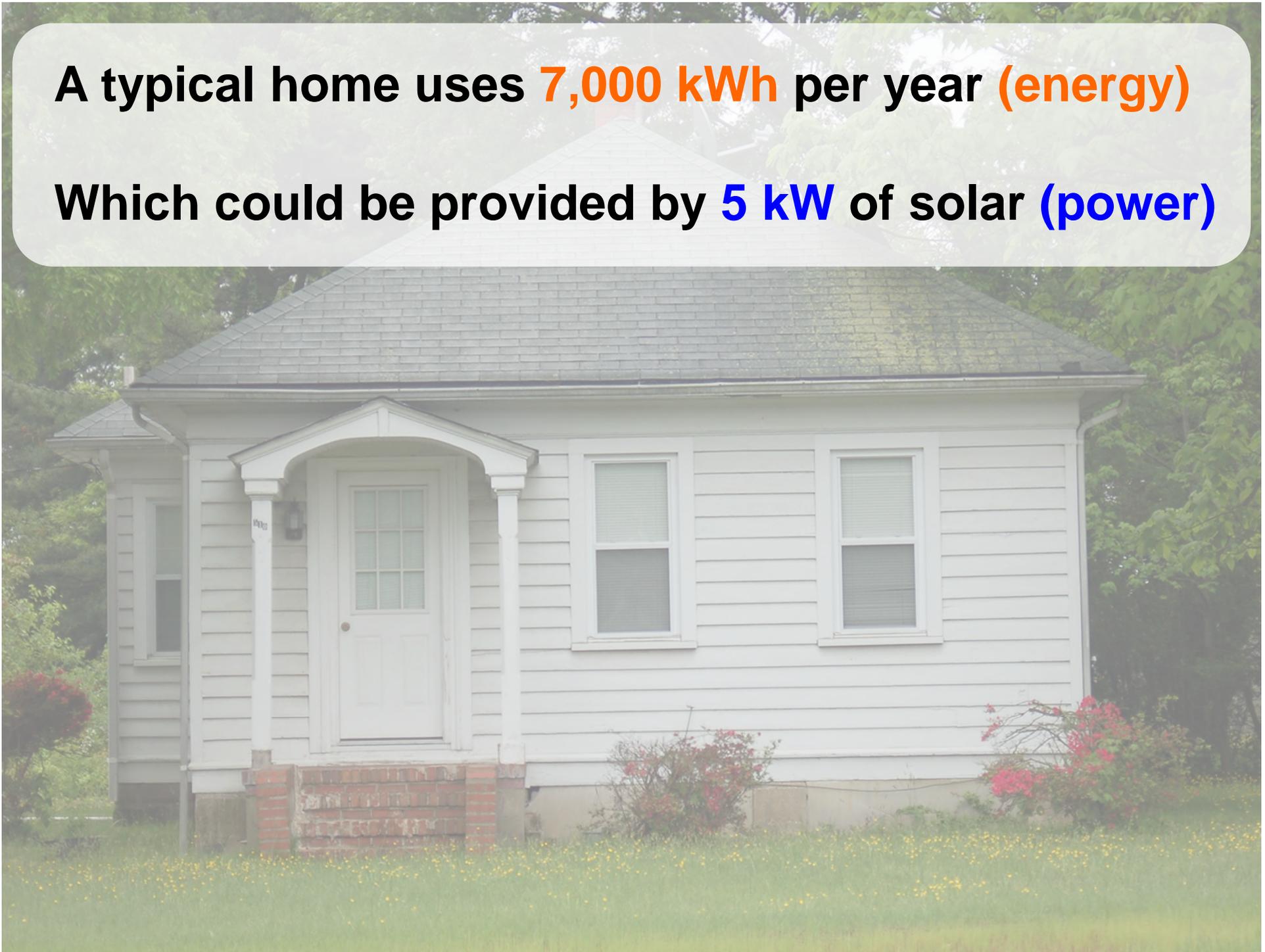


SURFACE COVER TYPE II (PROPOSED CONDITIONS)  
(SECTION VIEW)

## Solar Project Details

A typical home uses **7,000 kWh** per year (energy)

Which could be provided by **5 kW** of solar (power)





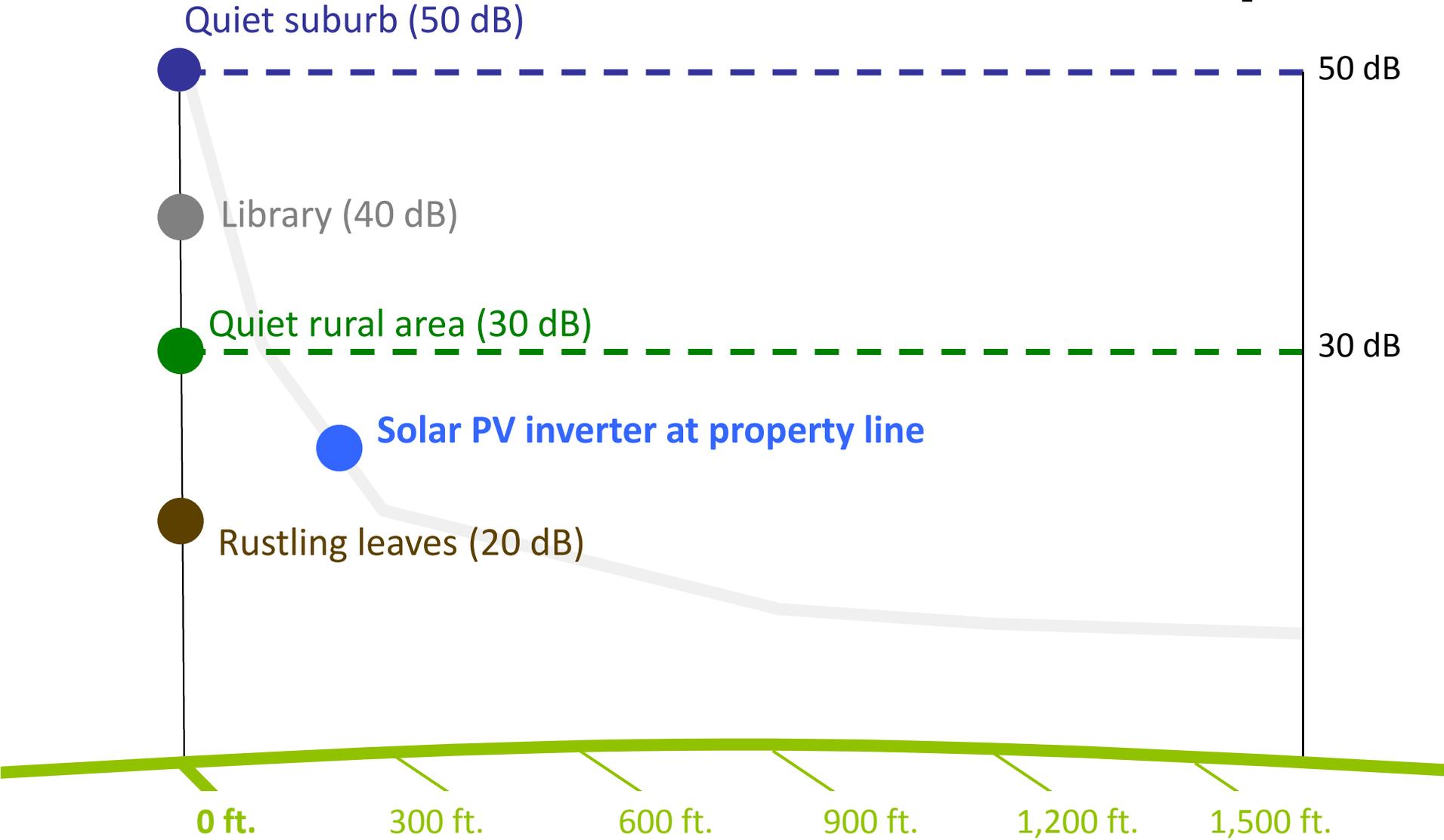
**Brockton, MA**  
**Landfill solar in suburban neighborhood**

**PV: no glare**

**Indianapolis Airport: 12.5 MW (PV)**



# Solar PV is quiet



**Source:**  
National Institute of Health (NIH)  
National Institute of Deafness and Other Community Disorders (NICDC)  
General Electric Global Research

# 2014: Renewable energy is our future

