

CANYON ROAD SOLAR CANYON RD, LOS BANOS, CA 93635, USA

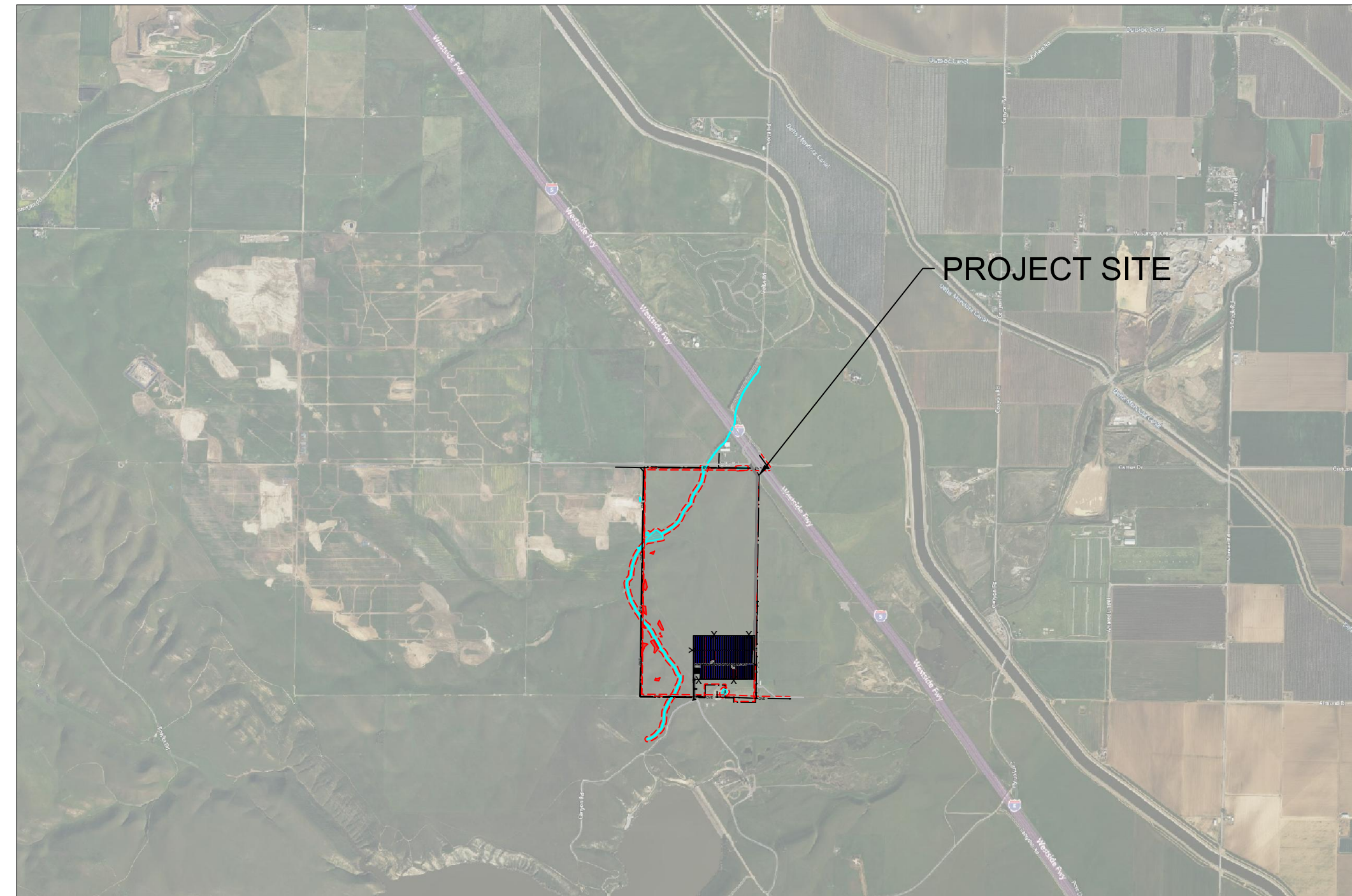
REVISIONS

4	PRELIM LAYOUT	09/29/22
3	PRELIM LAYOUT	09/23/22

AERIAL MAP VIEW

GENERAL PROJECT SCOPE OF WORK

INDEX OF DRAWINGS



DEVELOP NEW SOLAR PHOTOVOLTAIC ELECTRICAL GENERATING FACILITIES ON APPROXIMATELY 31.85 ACRES OF LAND. THE SOLAR POWER PLANT WILL BE A SINGLE AXIS TRACKER SYSTEM. THE ENTIRE SITE WILL HAVE MINIMAL EARTHWORK DISTURBANCE AND GRADING OPERATIONS WILL OCCUR MAINLY FOR INSTALLATION OF ACCESS ROADS AND EQUIPMENT PADS.

DC NAMEPLATE: 7,494.12 kW
AC RATING: 5,000.00 kW

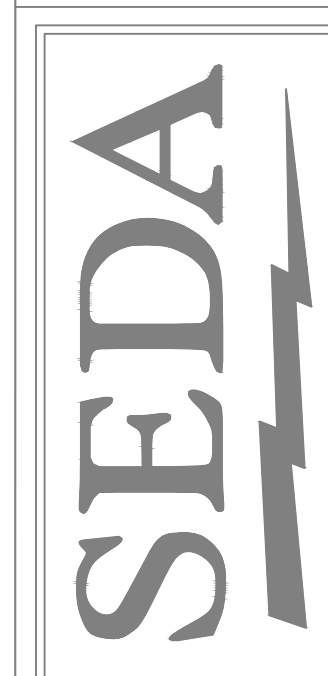
SOLAR MODULE QTY & MODEL:
(13,878) ASTRONERGY CHSM72M(DG)/F-BH , 540W

INVERTER QTY & MODEL:
(40) SUNGROW SG125HV, 125KW

SHEET #	SHEET TITLE
T-001	COVER SHEET
PV-100	SITE PLAN
E-100	SINGLE LINE DIAGRAM



879 SANCHEZ STREET,
SAN FRANCISCO, CA 94114
PHONE (503) 518-7689
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SEQUOIA ENGINEERING & DESIGN ASSOCIATES
575 LENNON LANE, SUITE 145
WALNUT CREEK, CA, 94598
PHONE (925) 891-4183
FAX (925) 964-1220
WWW.SEQUOIA-ENGINEERING.COM

OWNER INFORMATION, PROJECT TEAM

CODES & REGULATIONS

OWNER OF RECORD: ALBERT RANCH, LLC

PROJECT APPLICANT: RPCA SOLAR 6, LLC

PROJECT ENGINEER: SEQUOIA ENGINEERING & DESIGN ASSOCIATES

ZONING DISTRICT: A-2 (EXCLUSIVE AGRICULTURAL)

GENERAL PLAN DESIGNATION: FP (FOOTHILL PASTURE)

WORK PERFORMED AND MATERIALS FURNISHED SHALL CONFORM TO THE APPLICABLE PUBLICATIONS AND STANDARDS OF THE ORGANIZATIONS LISTED BELOW:

NATIONAL

- 2018 INTERNATIONAL BUILDING CODE (IBC)
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
- NATIONAL ELECTRIC CODE, 2020 EDITION
- UNDERWRITERS LABORATORIES INV. (UL)
- US DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
- NFPA 704

STATE

- 2019 CALIFORNIA BUILDING CODE
- 2019 CALIFORNIA ELECTRICAL CODE
- 2019 CALIFORNIA ENERGY CODE
- 2019 CALIFORNIA FIRE CODE
- RULE 21 GUIDELINES
- CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT (CAL OSHA)

PROJECT

CANYON ROAD SOLAR
CANYON ROAD,
LOS BANOS,
CA 93635,
LAT: 37.000250°
LON: -120.930040°

SHEET TITLE

SITE PLAN

SCALE: AS SHOWN
DRAWN: LR
DATE: 09/29/22

PV-100

NOT FOR CONSTRUCTION.



SYSTEM SPECIFICATIONS	
SYSTEM SIZE DC	7,494.12 kW
SYSTEM SIZE AC	5,000.00 kW
DC/AC RATIO	1.50
MODULE MANUFACTURER	ASTROENERGY
MODULE MODEL	CHSM72M(DG)/F-BH
MODULE RATING	540 W
TOTAL MODULE QTY	13,878
MODULES PER STRING	27
TOTAL NO. OF STRINGS	514
INVERTER MODEL	SUNGROW SG125HV
INVERTER RATING	125 kW
INVERTER QTY	40
STEP-UP TRANSFORMER	(2)12kV/600V, 2500kVA
RACKING	ATI HSAT
# OF 81 MODULE TRACKER ROW	166
# OF 54 MODULE TRACKER ROW	8
TILT ANGLE	0°
INTER-ROW SPACING	15.0'
PITCH	22.4'
GCR	33%
SITE AREA INSIDE FENCE	31.85 Ac
BESS DETAILS	
POI BESS CAPACITY	20,000 KWH

LEGEND	
	ATI 81 MODULE TRACKER ROW
	ATI 54 MODULE TRACKER ROW
	POWER STATION - (1) MV TRANSFORMER, (1) DAS, (1) WEATHER STATION
	SUNGROW 125kW STRING INVERTER
	12' WIDE SITE ACCESS NATIVE COMPACTED ROAD
	WETLANDS
	HIGH SLOPES
	(E) PUBLIC ROAD
	PROPERTY LINE
	PROJECT SITE SECURITY FENCE
	SETBACK
	(E) OH LINES
	MV CABLE

- GENERAL NOTES**
- REFER TO SINGLE LINE DIAGRAM FOR DETAILS.
 - INSTALLATION TO COMPLY WITH NEC 2020 ARTICLE 690 AND ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES OR REGULATIONS.
 - EQUIPMENT SHALL BE LABELED PER NEC 690 AND UTILITY REGULATIONS.
 - 12' ACCESS ROADS SHALL BE DESIGNED TO ACCOMMODATE ALL CONSTRUCTION, OPERATIONS, MAINTENANCE, AND UTILITY TRAFFIC THROUGHOUT THE SITE.
 - DIMENSIONS TO PROPERTY LINES AND EXISTING FEATURES ARE APPROXIMATE PENDING SURVEY.

PROPOSED CONDITIONS		
PROJECT AREA, FENCED	1,387,372.09	SQFT.
PROJECT AREA, FENCED	31.85	AC.
PROPOSED NATIVE COMPACTED ROAD OUTSIDE OF FENCED AREA	54,793	SQFT.
TOTAL PRE-PROJECT IMPERVIOUS	0	SQFT.
TOTAL NEW NATIVE COMPACTED ROAD	85,901	SQFT.
TOTAL NEW POWER STATIONS	700	SQFT.
TOTAL NEW ENERGY STORAGE CONTAINERS (BESS)	2,400	SQFT.
TOTAL REPLACED IMPERVIOUS SURFACE	0	SQFT.
TOTAL POST-PROJECT IMPERVIOUS SURFACE WITH BESS	3,144	SQFT.
PERVIOUS SURFACE AREA REDUCTION WITH BESS	0.23	%
TOTAL POST-PROJECT IMPERVIOUS SURFACE WITHOUT BESS	744	SQFT.
PERVIOUS SURFACE AREA REDUCTION WITHOUT BESS	0.05	%

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RENEWABLE PROPERTIES

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SEDOA

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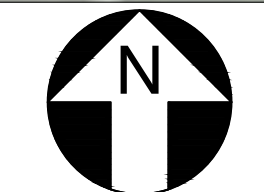
SITE PLAN

SCALE: AS SHOWN
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PV-100

SHEET 2 OF 3

1 ARRAY LOCATION
SCALE: 1"=350'



**PRELIMINARY
NOT FOR CONSTRUCTION**