

# PRELIMINARY GRADING AND DRAINAGE NOTES

## GRADING NOTES

- ALL GRADING SHALL CONFORM TO THE REQUIREMENTS OF THE GRADING ORDINANCE SECTIONS 87.101 THROUGH 87.804 OF THE SAN DIEGO COUNTY CODE OF REGULATORY ORDINANCES.
- A REGISTERED CIVIL ENGINEER IS REQUIRED TO SUPERVISE INSTALLATION OF THE FILL KEYWAY AND ALL FILL BENCHING AND COMPACTION. A SOILS REPORT WITH COMPACTION TESTS IS REQUIRED FOR ALL FILL THAT IS OVER 12" IN DEPTH. DPLU FORM #73, MINOR GRADING CERTIFICATION, AND THREE (3) COPIES OF THE COMPACTION REPORT COMPLETED BY A SOILS ENGINEER SHALL BE SUBMITTED PRIOR TO ROUGH GRADE APPROVAL.
- ALL FILL MATERIAL SHALL BE COMPACTED AS NOTED.
- NATURAL DRAINAGE SHALL NOT BE DIVERTED OR CONCENTRATED ONTO ADJACENT PROPERTY.
- MAINTAIN 1% (MINIMUM) SLOPE AWAY FROM ALL BUILDINGS FOR AT LEAST 5'.
- ALL GRADING DETAILS SHALL BE IN CONFORMANCE WITH THE FOLLOWING SAN DIEGO COUNTY DESIGN STANDARDS OR REGIONAL STANDARD DRAWINGS:
  - DS-8 LOT GRADING
  - DS-10 GRADING OF SLOPES
  - DS-11 REQUIRED SETBACKS
  - D-40 RIP RAP ENERGY DISSIPATER
  - D-82 DEBRIS FENCE
  - DS-09 FENCING CUT BANKS
- BERMS SHALL BE REQUIRED AT THE TOP OF ALL FILL SLOPES AND SWALES OR BROW DITCHES SHALL BE REQUIRED AT THE TOP OF ALL CUT SLOPES. ALL BERMS, SWALES, OR BROW DITCHES SHALL CONFORM TO THE DESIGN STANDARDS OR REGIONAL STANDARD DRAWINGS LISTED ABOVE.
- REGARDLESS OF WHICH BMP'S ARE IMPLEMENTED THE FACE OF ALL CUT AND FILL SLOPES IN EXCESS OF 3' VERTICAL HEIGHT SHALL BE PLANTED AND MAINTAINED WITH A GROUND COVER OR OTHER PLANTING TO PROTECT THE SLOPES AGAINST EROSION AND INSTABILITY. PLANTING SHALL COMMENCE AS SOON AS SLOPES ARE COMPLETED. ALL PLANTING MUST HAVE A PERMANENTLY INSTALLED IRRIGATION SYSTEM.
- REQUIRED SLOPE RATIOS ARE AS FOLLOWS:
  - CUTS - 1.5:1 FOR MINOR SLOPES (UP TO 15' VERTICAL HEIGHT)
  - CUTS - 2:1 FOR MAJOR SLOPES (OVER 15' VERTICAL HEIGHT)
  - FILLS - 2:1 (MAXIMUM) FOR ALL FILL SLOPES
- NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE OWNER AND PERMITEE ARE RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTIES. NO PERSON SHALL EXCAVATE SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PUBLIC STREET OR SIDEWALK, OR THE FUNCTION OF ANY SEWAGE DISPOSAL SYSTEM OR ANY OTHER PUBLIC OR PRIVATE PROPERTY.
- THE DIRECTOR OF PLANNING AND LAND USE MAY IMPOSE CONDITIONS THAT ARE REASONABLY NECESSARY TO PREVENT THE CREATION OF A NUISANCE OR HAZARD TO PERSONS OR TO PUBLIC OR PRIVATE PROPERTY. THE DIRECTOR MAY ALSO MODIFY OR ADD CONDITIONS TO ANY VALID GRADING PERMIT WHEN SUCH MODIFICATIONS OR ADDITIONS ARE REASONABLY NECESSARY TO PREVENT THE CREATION OF A NUISANCE OR HAZARD TO PERSONS OR TO PUBLIC OR PRIVATE PROPERTY. SUCH CONDITIONS MAY INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
  - IMPROVEMENT OF EXISTING GRADING TO CONFORM WITH THE GRADING ORDINANCE. AND;
  - REQUIREMENTS FOR FENCING OF EXCAVATIONS OR FILLS THAT WOULD OTHERWISE BE HAZARDOUS, AND;
  - ADEQUATE DUST CONTROL MEASURES.
- ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTH MOVING EQUIPMENT, CONSTRUCTION EQUIPMENT OR ANY OTHER ASSOCIATED GRADING EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00AM AND 6:00PM MONDAY THROUGH SATURDAY. NO EARTH MOVING OR GRADING SHALL BE CONDUCTED ON SUNDAYS OR HOLIDAYS.
- THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF THE PROPOSED WORK SHALL BE PROVIDED TO THE FOLLOWING AGENCIES:
  - SAN DIEGO GAS AND ELECTRIC (800) 422-4133
  - PACIFIC BELL (800) 422-4133
  - CATV (800) 422-4133
  - WATER UTILITY (800) 422-4133
  - SEWER UTILITY (800) 422-4133
- APPROVAL OF THESE PLANS BY THE DIRECTOR OF PLANNING AND LAND USE DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION IS OBTAINED, RIGHT TO ENTRY FORM COMPLETED AND VALID GRADING PERMIT ISSUED.
- THE ISSUANCE OF A GRADING PERMIT SHALL CONSTITUTE AN AUTHORIZATION TO PERFORM ONLY THAT WORK WHICH IS DESCRIBED OR SHOWN ON THE GRADING PERMIT APPLICATION AND APPROVED GRADING PLANS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ANY CONDITIONS IMPOSED BY THE DIRECTOR OF PLANNING AND LAND USE AND IN ACCORDANCE WITH THE GRADING ORDINANCE.
- ROADS ARE CLASSIFIED ON THE DRAWING AS THE FOLLOWING:
  - PRIMARY ACCESS ROAD - 20FT WIDE GRADED ROAD IMPROVED TO CARRYING A 50,000LBS VEHICLE.
  - SECONDARY ACCESS ROAD - 30FT WIDE GRADED ROAD WITH AN 18FT LANE CAPABLE OF CARRYING A 15,000LBS VEHICLE AND A 12FT LANE CAPABLE OF CARRYING A 50,000LBS VEHICLE.

17. THE GRADING FOR THE SITE SHALL INCLUDE THE CLEARING AND GRUBBING FOR A 19,698,600 SQ. FT. AREA

18. THE BASIS OF EXISTING CONTOURS WAS PROVIDED IN A DIGITAL TERRAIN MODEL (DTM) TIED TO THE CCS83 GRID. THE DTM WAS CREATED IN CONJUNCTION WITH AN AERIAL TOPOGRAPHICAL SURVEY AT 20-SCALE WITH 0.5 FOOT CONTOUR INTERVALS PERFORMED JANUARY 2012.

19. AREAS DESIGNATED AS "SPECIAL FUEL MOD ZONE" ARE TO BE CLEARED OF EXISTING VEGETATION, THEN COVERED WITH LANDSCAPING FABRIC AND WEIGHTED DOWN USING AS SURFACING MATERIAL OF CRUSHED STONE

20. EARTHWORK QUANTITIES:

EXCAVATION:	28,410	CUBIC YARDS
FILL:	28,410	CUBIC YARDS
IMPORT:		CUBIC YARDS
EXPORT:	0	CUBIC YARDS

## PRELIMINARY GRADING PLAN NOTE

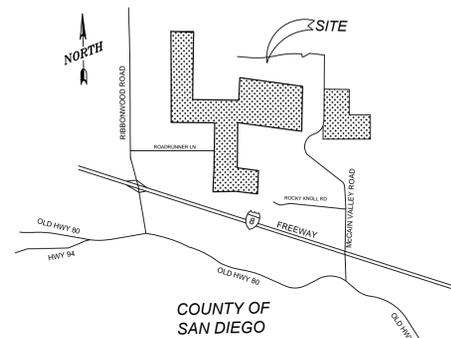
THIS PLAN IS PROVIDED TO ALLOW FOR FULL AND ADEQUATE DISCRETIONARY REVIEW OF A PROPOSED DEVELOPMENT PROJECT. THE PROPERTY OWNER ACKNOWLEDGES THAT ACCEPTANCE OR APPROVAL OF THIS PLAN DOES NOT CONSTITUTE AN APPROVAL TO PERFORM ANY GRADING SHOWN HEREON, AND AGREES TO OBTAIN VALID GRADING PERMISSION BEFORE COMMENCING SUCH ACTIVITY.

## STORMWATER MANAGEMENT NOTES

- DURING THE RAINY SEASON FROM OCTOBER 1ST TO APRIL 30TH THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED WITHIN 48 HOURS OF A PREDICTED RAIN.
- 125% OF ALL NEEDED BMP MATERIALS SHALL BE STORED ONSITE YEAR-ROUND TO ALLOW FULL DEPLOYMENT AND INSTALLATION WITHIN 48 HOURS OF A PREDICTED RAIN.
- THE PROPERTY OWNER SHALL COMPLY WITH ALL APPLICABLE STORMWATER REGULATIONS AT ALL TIMES. THE BMPs THAT HAVE BEEN INCORPORATED INTO THIS PLAN SHALL BE IMPLEMENTED AND MAINTAINED TO PREVENT ONSITE EROSION AND TO PREVENT DISCHARGES OF POLLUTANTS FROM LEAVING THE SITE. MAINTENANCE OF BMPs IS THE RESPONSIBILITY OF THE PROPERTY OWNER AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE BMPs MAY RESULT IN ENFORCEMENT ACTION BY THE COUNTY OF SAN DIEGO OR OTHERS. IF INSTALLED BMPs FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATE AS SOON AS IT IS SAFE TO DO SO.
- PERIMETER SEDIMENT CONTROL BMPs SHALL BE INSTALLED IMMEDIATELY AFTER THE AREA TO BE GRADED IS BRUSHED OR CLEARED, BUT PRIOR TO THE START OF GRADING OPERATIONS.
- EROSION CONTROL BMPs USED FOR SLOPE STABILIZATION SHALL BE INSTALLED AS SOON AS THE FINISHED SLOPES ARE COMPLETE.
- A PERIMETER BMP INSPECTION IS REQUIRED ON THE FIRST DAY OF GRADING
- WHERE AN EXISTING STORMWATER CONVEYANCE CROSSES OVER A PLANNED SECONDARY SERVICE ROAD, THE ROAD SHALL BE GRADED AND MAINTAINED AS A FORD.
- RIP RAP SHALL BE PLACED AT ALL LOCATIONS WHERE ONE DRAINAGE FEATURE (SUCH AS A DITCH OR A SWALE) DRAINS INTO A LARGER DRAINAGE FEATURE.
- DIP SECTIONS SHALL BE COMPOSED OF 6" OF REINFORCED STRUCTURAL CONCRETE SLABS, WHICH SHALL BE DESIGNED TO WITHSTAND AND CONVEY HUNDRED (100) YEAR FREQUENCY STORM.
- ALL SURFACES THAT ARE NOT IMPROVED ROADS SHOULD BE SEEDDED AND REVEGETATED WITH DROUGHT TOLERANT PLANTS.

PROPERTY OWNER INFORMATION				
NAME:	Waterstone Support Foundation Inc. John Gibson	FrankieThibodeau	VistaDaksBusinessPark John Gibson	HarmonyEroovePartners John Gibson
ADDRESS:	2925 Professional Pl #200	39950 Roadrunner Ln	1000 Pioneer Way	1000 Pioneer Way
CITY:	Colorado Springs	Boulevard	El Cajon	El Cajon
STATE:	CO	CA	CA	CA
ZIP:	80904	91905	92020	92020
PHONE:	(619) 440-7424	(619) 766-9105	(619) 440-7424	(619) 440-7424
APN's and (Acreage)	611-110-01 (63.71)	611-091-07 (42.39), 612-030-19 (43.43), 612-030-01 (33.10)	611-090-04 (22.62), 611-091-03 (14.62), 611-090-02 (69.53), 611-060-04 (1.63),	611-100-07 (214.84)

## VICINITY MAP



FILE NAME: C:\USERS\ORZOCG\DESKTOP\SOITEC SOLAR PROJECTS\RUGGED\GRADING AND DRAINAGE\DRAWINGS\WORKING DETAIL DRAWINGS\C-200\_NOTES\_RUGGED\_REV3.DWG LAST SAVED BY: ORZOCG PLOT DATE: 12/29/2014 4:09:15 PM

**CLIENT**

**Soitec Solar Development, LLC**  
4250 Executive Square, Suite 770  
San Diego, CA 92037-9178

**AECOM**  
AECOM TECHNICAL SERVICES, INC  
440 Stevens Avenue, Suite 250  
Solana Beach, CA 98075  
858.947.7144 tel 858.947.7145 fax  
www.aecom.com

**CONTACT INFORMATION**

NAME: PAT BROWN  
ADDRESS: 4250 Executive Square, Suite 770  
La Jolla, CA  
TELEPHONE NUMBER: (858) 652-4423  
(24 HOUR CONTACT NUMBER)  
SITE A.P.N. NUMBER: SEE DRAWINGS C-202 THROUGH C-205  
ADJACENT A.P.N NUMBERS SEE DRAWINGS C-202 THROUGH C-205

**GRADING ON ADJACENT PARCELS**

LIST ANY ADJACENT PARCELS UNDER THE SAME OWNERSHIP AS THIS PARCEL FOR WHICH A GRADING PLAN HAS BEEN SUBMITTED OR A GRADING PERMIT ISSUED:

APN(s):

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**PROPERTY OWNER CERTIFICATION**

I CERTIFY THAT I HAVE READ AND UNDERSTAND THE STORMWATER MANAGEMENT NOTES AND THE GRADING NOTES:

OWNER'S SIGNATURE (REQUIRED): DATE:

**DISTURBED AREA CALCS**

PAD + SLOPES: \_\_\_\_\_ SF  
DRIVEWAY: \_\_\_\_\_ SF  
PRIMARY SEPTIC: \_\_\_\_\_ SF  
FIRE CLEARING: \_\_\_\_\_ SF  
TOTAL: \_\_\_\_\_ SF

IF ≥ 1 AC, PROVIDE WDDI# : \_\_\_\_\_

**PLAN CHECK/PERMITS**

BUILDING PERMIT  
PLAN CHECK NUMBER: \_\_\_\_\_  
PARCEL MAP NUMBER: \_\_\_\_\_

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**ENGINEER OF WORK**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT AND THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT.

NAME: Savas E. Kolankaya DATE: \_\_\_\_\_  
RCE NO: C 43628 EXPIRES: 12/31/14

**PRIVATE CONTRACT**

COUNTY OF SAN DIEGO  
DEPARTMENT OF PLANNING AND LAND USE

PRELIMINARY GRADING PLAN FOR:  
**80 MW SOLAR SYSTEM  
RUGGED SOLAR LLC**

SHEET NUMBER: C-200 REV: 3 SHEET: 1 OF SHEETS: 7

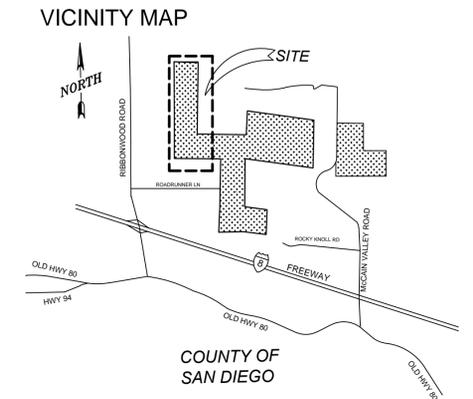
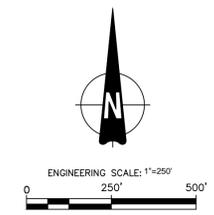
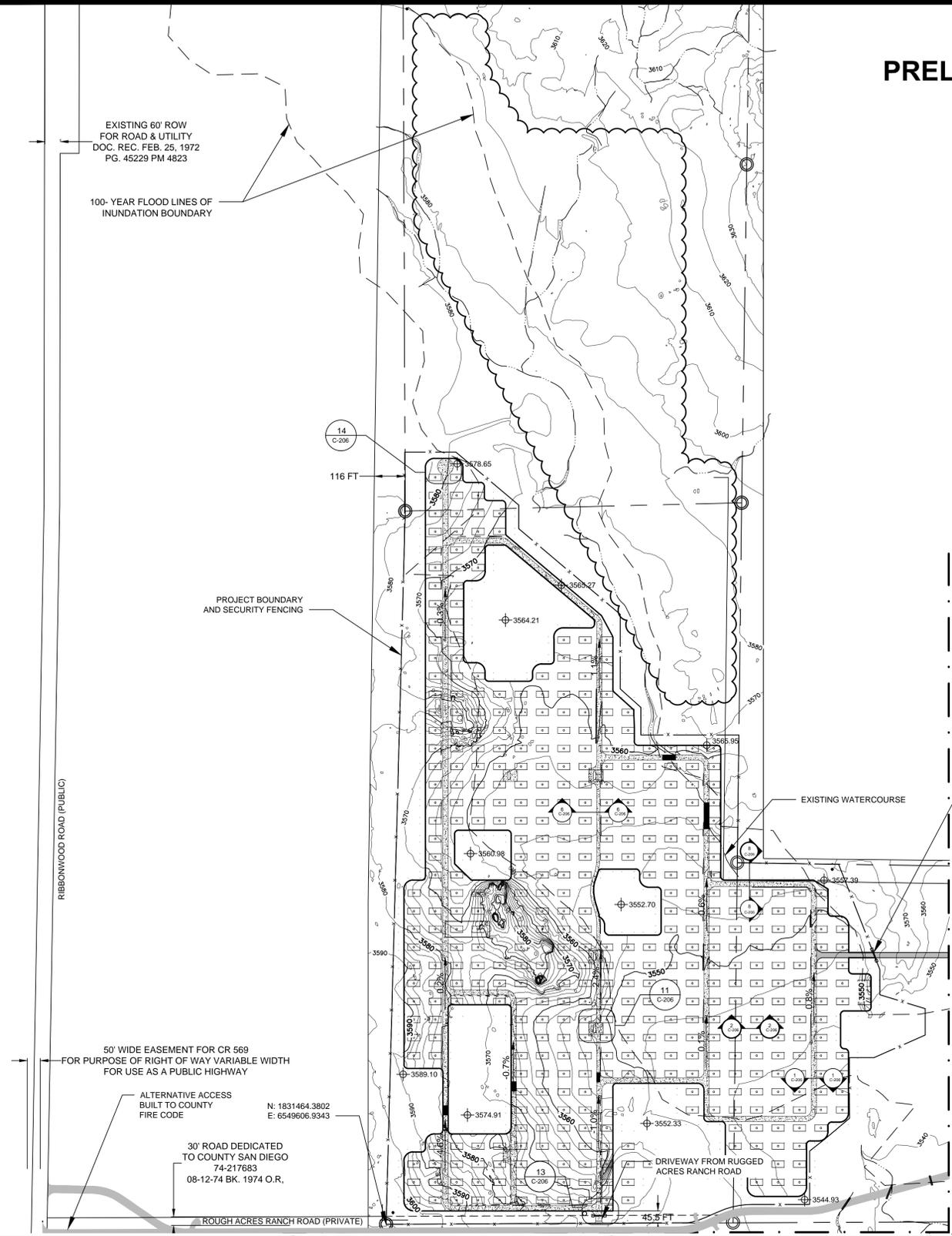
APPROVED DIRECTOR OF PLANNING AND LAND USE: GRADING PERMIT NUMBER: \_\_\_\_\_  
BY: DATE:

PRELIMINARY



FILE NAME: C:\USERS\OROZCOG\DESKTOP\SOITEC SOLAR PROJECT\DRUGGED\GRADING AND DRAINAGE\GRADING AND DRAINAGE\WORKING GRADING\C-202\CADC\_202\_GRADING\_REV3.DWG LAST SAVED BY: OROZCOG PLOT DATE: 12/2/2014 2:43:05 PM

# PRELIMINARY GRADING PLAN



**GRADING LEGEND**

PROPERTY LINE AND SECURITY FENCING	— X — X —
EXISTING WATERCOURSE:	— — — — —
EXISTING CONTOUR:	— 2.75 —
PROPOSED CONTOUR:	— 2.75 —
EXTENT OF GRADING:	— — — — —
GATE:	— [ ] —
SURFACING FOR PRIMARY AND SECONDARY ACCESS ROAD.	[ ]

VISTA OAKS EARTHWORK	
BASE SURFACE	EXISTING GROUND
COMPARISON SURFACE	FUTURE GROUND
AREA SQ. FT.	3,177,251
AREA, acres	75.0
CUT, Cu. Yd.	4656
FILL, Cu. Yd.	4656
NET, Cu. Yd.	0

**CLIENT**

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4250 Executive Square, Suite 770  
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440 Stevens Avenue, Suite 250  
Solana Beach, CA 98075  
858.947.7144 tel 858.947.7145 fax  
www.aecom.com

**PROPERTY OWNER INFORMATION**

NAME: Vista Oaks Business Park, John Gibson  
ADDRESS: 1000 Pioneer Way  
El Cajon, CA 92020  
TELEPHONE NUMBER: (619) 440-7424  
(24 HOUR CONTACT NUMBER) 611-090-04, 611-091-03  
611-090-02, 611-060-04  
SITE A.P.N. NUMBER: 611-090-04, 611-090-18, 611-060-07  
611-090-14, 611-090-115, 611-091-17  
ADJACENT A.P.N. NUMBERS 611-060-03, 611-060-04, 611-060-05, 611-090-19, 611-090-20, 611-090-20

**GRADING ON ADJACENT PARCELS**

LIST ANY ADJACENT PARCELS UNDER THE SAME OWNERSHIP AS THIS PARCEL FOR WHICH A GRADING PLAN HAS BEEN SUBMITTED OR A GRADING PERMIT ISSUED:

APN(s):

**PROPERTY OWNER CERTIFICATION**

I CERTIFY THAT I HAVE READ AND UNDERSTAND THE STORMWATER MANAGEMENT NOTES AND THE GRADING NOTES:

OWNER'S SIGNATURE (REQUIRED): DATE:

**DISTURBED AREA CALCS**

PAD + SLOPES:	390,942	SF
DRIVEWAY:	1,424	SF
PRIMARY SEPTIC:		SF
FIRE CLEARING:	2,784,885	SF
TOTAL:	3,177,251	SF
IF ≥ 1 AC, PROVIDE WDDID#:		

**PLAN CHECK/PERMITS**

BUILDING PERMIT PLAN CHECK NUMBER: \_\_\_\_\_

PARCEL MAP NUMBER: \_\_\_\_\_

**ENGINEER OF WORK**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT AND THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT.

NAME: Savas E. Kolankaya DATE: \_\_\_\_\_

RCE NO: C 43628 EXPIRES: 12/31/14

**PRIVATE CONTRACT**

COUNTY OF SAN DIEGO  
DEPARTMENT OF PLANNING AND LAND USE

PRELIMINARY GRADING PLAN FOR:  
**80 MW SOLAR SYSTEM  
RUGGED SOLAR LLC**

SHEET NUMBER <b>C-202</b>	REV. <b>3</b>	SHEET: <b>3</b>	OF SHEETS: <b>7</b>
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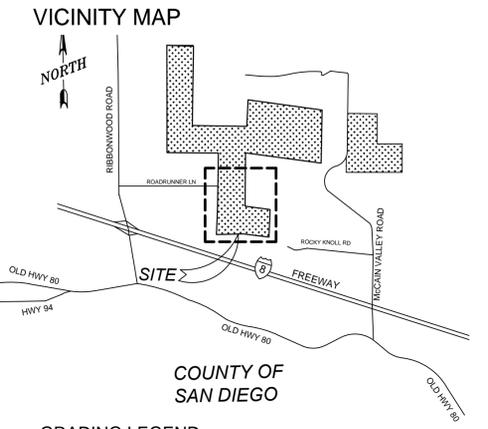
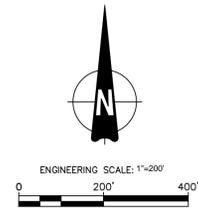
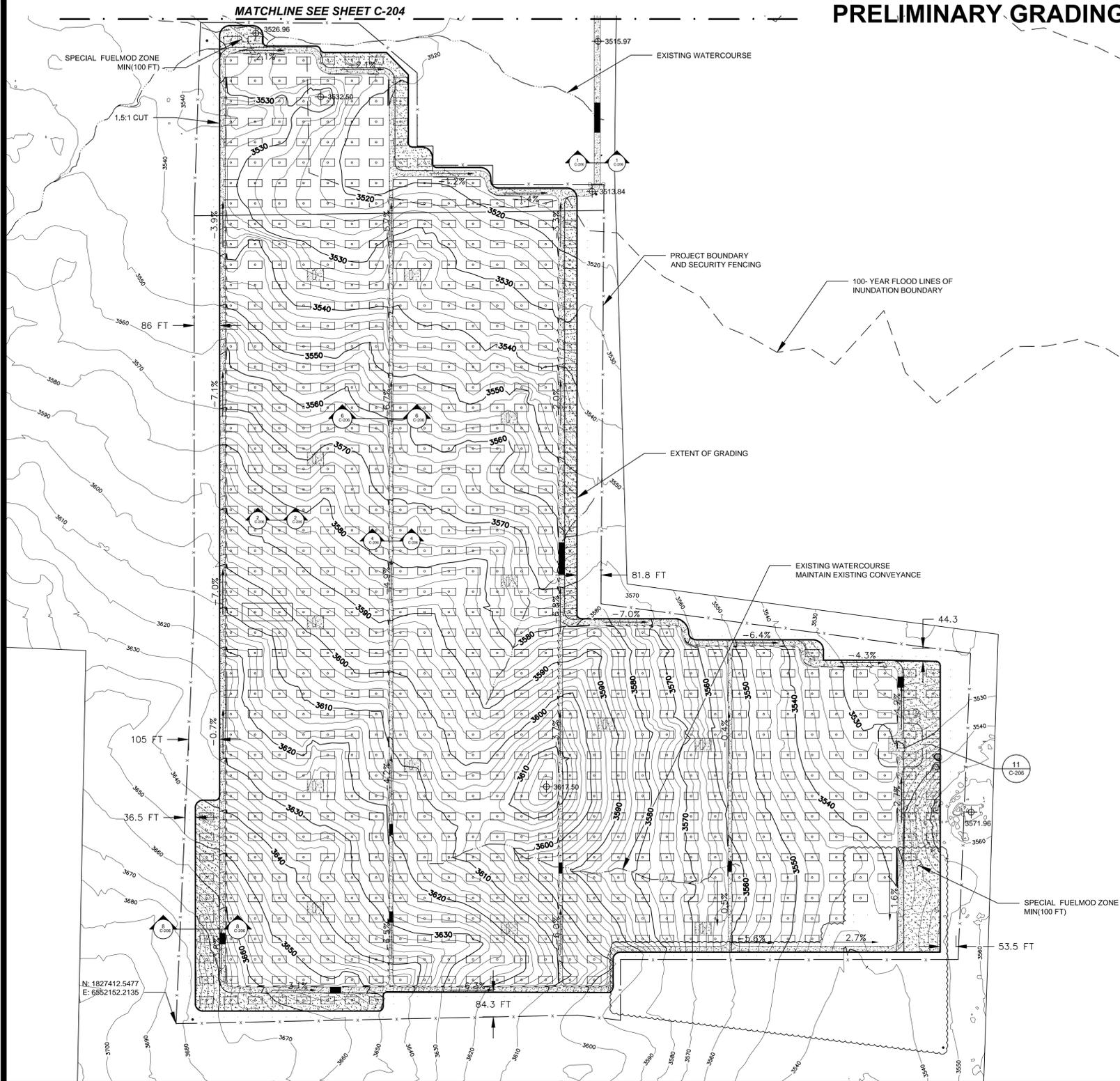
APPROVED DIRECTOR OF PLANNING AND LAND USE: \_\_\_\_\_ GRADING PERMIT NUMBER: \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

PRELIMINARY

FILE NAME: C:\USERS\OROCZCOG\DESKTOP\SOITEC SOLAR PROJECTS\RUGGED\GRADING AND DRAINAGE\WORKING GRADING\C-203\CAD\C-203\_GRADING\_REV3.DWG LAST SAVED BY: OROZCOG PLOT DATE: 12/22/2014 2:48:38 PM

# PRELIMINARY GRADING PLAN



**GRADING LEGEND**

PROPERTY LINE AND SECURITY FENCING	— X — X —
EXISTING WATERCOURSE:	— — — — —
EXISTING CONTOUR:	~ 2.75
PROPOSED CONTOUR:	~ 2.75
EXTENT OF GRADING:	— — — — —
GATE:	⊠
SURFACING FOR PRIMARY AND SECONDARY ACCESS ROADS	▨

FRANKIE THIDODEAU EARTHWORK	
BASE SURFACE	EXISTING GROUND
COMPARISON SURFACE	FUTURE GROUND
AREA SQ. FT.	5,796,179
AREA, acres	133.0
CUT, Cu. Yd.	3780
FILL, Cu. Yd.	3780
NET, Cu. Yd.	0

**CLIENT**

**Soitec Solar Development, LLC**  
4250 Executive Square, Suite 770  
San Diego, CA 92037-9178

**AECOM**  
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440 Stevens Avenue, Suite 250  
Solana Beach, CA 98075  
858.947.7144 tel 858.947.7145 fax  
www.aecom.com

**PROPERTY OWNER INFORMATION**

NAME: Frankie Thibodeau  
ADDRESS: 39990 Roadrunner Ln  
Boulevard, CA 91905  
TELEPHONE NUMBER: (619) 766-9105  
(24 HOUR CONTACT NUMBER)  
SITE A.P.N. NUMBER: 611-091-07, 612-030-19, 612-030-01  
ADJACENT A.P.N. NUMBERS: 611-091-07, 612-030-02, 612-030-21  
612-030-13, 611-100-006, 611-091-03, 611-091-02

**GRADING ON ADJACENT PARCELS**

LIST ANY ADJACENT PARCELS UNDER THE SAME OWNERSHIP AS THIS PARCEL FOR WHICH A GRADING PLAN HAS BEEN SUBMITTED OR A GRADING PERMIT ISSUED:

APN(s): \_\_\_\_\_

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**PROPERTY OWNER CERTIFICATION**

I CERTIFY THAT I HAVE READ AND UNDERSTAND THE STORMWATER MANAGEMENT NOTES AND THE GRADING NOTES:

OWNER'S SIGNATURE (REQUIRED): \_\_\_\_\_ DATE: \_\_\_\_\_

**DISTURBED AREA CALCS**

PAD + SLOPES: 381,751 SF  
DRIVEWAY: \_\_\_\_\_ SF  
PRIMARY SEPTIC: \_\_\_\_\_ SF  
FIRE CLEARING: 5,414,428 SF  
TOTAL: 5,796,179 SF  
IF ≥ 1 AC, PROVIDE WDD#: \_\_\_\_\_

**PLAN CHECK/PERMITS**

BUILDING PERMIT PLAN CHECK NUMBER: \_\_\_\_\_  
PARCEL MAP NUMBER: \_\_\_\_\_

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**ENGINEER OF WORK**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT AND THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT.

Savas E. Kolankaya DATE: \_\_\_\_\_  
RCE NO: C-43628 EXPIRES: 12/31/14  
TELEPHONE NUMBER: (610) 260-6544

**PRIVATE CONTRACT**

COUNTY OF SAN DIEGO  
DEPARTMENT OF PLANNING AND LAND USE

PRELIMINARY GRADING PLAN FOR:  
**80 MW SOLAR SYSTEM**  
RUGGED SOLAR LLC

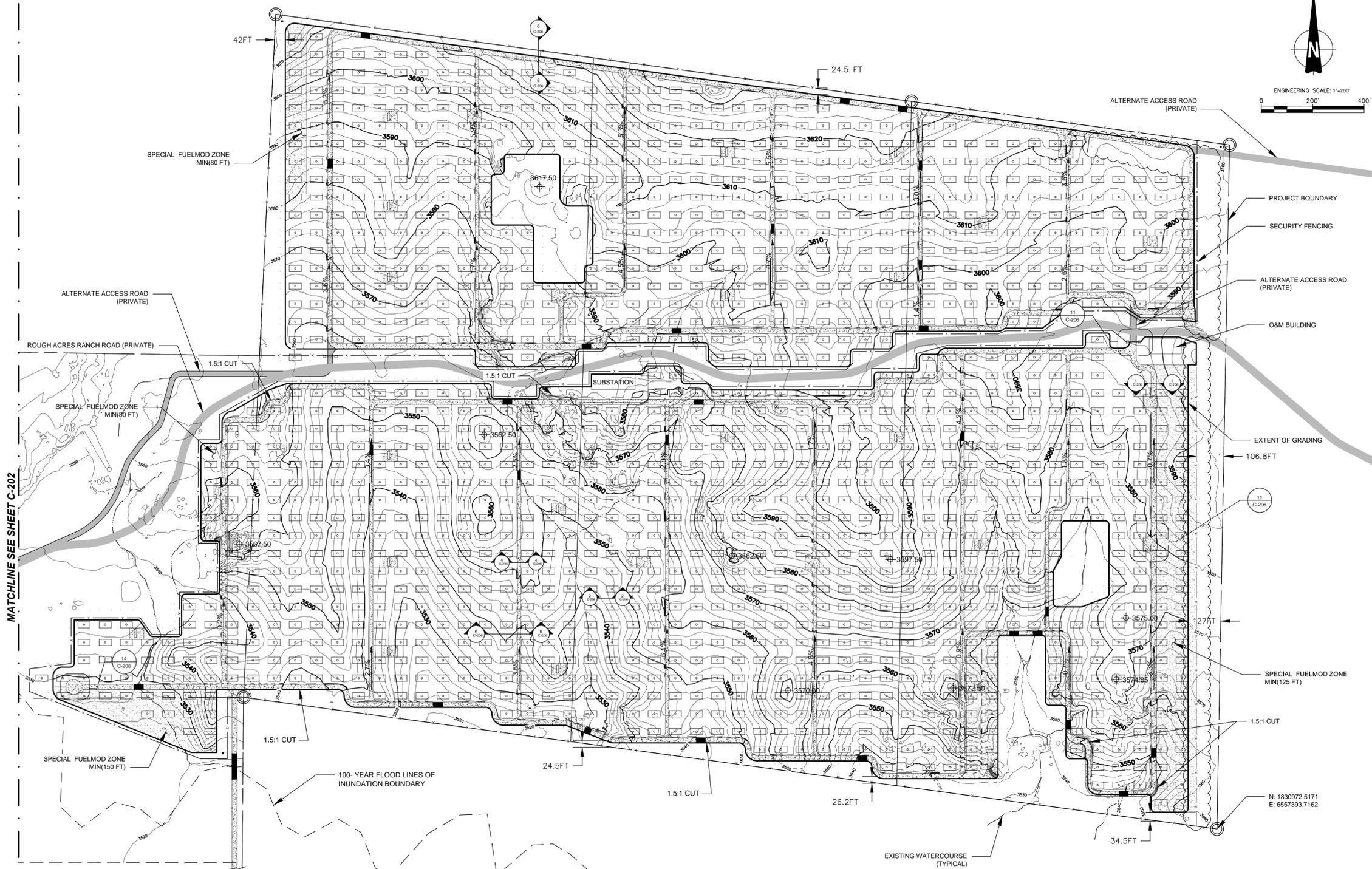
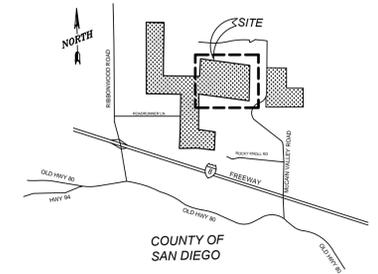
SHEET NUMBER <b>C-203</b>	REV. <b>3</b>	SHEET <b>4</b>	OF SHEETS <b>7</b>
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APPROVED DIRECTOR OF PLANNING AND LAND USE: \_\_\_\_\_ GRADING PERMIT NUMBER: \_\_\_\_\_  
DATE: \_\_\_\_\_

PRELIMINARY

# PRELIMINARY GRADING PLAN

## VICINITY MAP



## GRADING LEGEND

- SECURITY FENCING: — X — X —
- EXISTING WATERCOURSE: ————
- EXISTING CONTOUR: ———— 2.75
- PROPOSED CONTOUR: ———— 2.75
- EXTENT OF GRADING: ————
- GATE: ————
- SURFACING FOR PRIMARY AND SECONDARY ACCESS ROADS: [Pattern]

HARMONY GROVE EARTHWORK	
BASE SURFACE	EXISTING GROUND
COMPARISON SURFACE	FUTURE GROUND
AREA SQ. FT.	9,568,780
AREA, acres	220.0
CUT, Cu. Yd.	14156
FILL, Cu. Yd.	14156
NET, Cu. Yd.	0

FILE NAME: C:\USERS\ORZCOG\DESKTOP\SOITEC SOLAR PROJECTS\RUGGED\GRADING AND DRAINAGE\DRAWINGS\WORKING\GRADING\C-204\CAD\C-204\_Grading\_REV3.DWG PLOT DATE: 12/23/2014 2:51:23 PM LAST SAVED BY: ORZCOG

MATCHLINE SEE SHEET C-202

MATCHLINE SEE SHEET C-205

**CLIENT**

**Soitec**

Soitec Solar Development, LLC  
4250 Executive Square, Suite 770  
San Diego, CA 92037-9178

**AECOM**

AECOM TECHNICAL SERVICES, INC  
440 Stevens Avenue, Suite 250  
Solana Beach, CA 98075  
858.947.7144 tel 858.947.7145 fax  
www.aecom.com

**PROPERTY OWNER INFORMATION**

NAME: Harmony Grove Partners John Gibson  
ADDRESS: 1000 Pioneer Way  
El Cajon, CA 92020  
TELEPHONE NUMBER: (619) 440-7424  
SITE A.P.N. NUMBER: 611-100-07  
ADJACENT A.P.N. NUMBERS: 611-100-06, 611-091-03, 611-070-03  
611-070-01, 611-060-03, 611-090-03, 611-090-04

**GRADING ON ADJACENT PARCELS**

LIST ANY ADJACENT PARCELS UNDER THE SAME OWNERSHIP AS THIS PARCEL FOR WHICH A GRADING PLAN HAS BEEN SUBMITTED OR A GRADING PERMIT ISSUED:

APN(s):

**PROPERTY OWNER CERTIFICATION**

I CERTIFY THAT I HAVE READ AND UNDERSTAND THE STORMWATER MANAGEMENT NOTES AND THE GRADING NOTES:

OWNER'S SIGNATURE (REQUIRED): DATE:

**DISTURBED AREA CALCS**

PAD + SLOPES: 837,935 SF  
DRIVEWAY: 4,056 SF  
PRIMARY SEPTIC: SF  
FIRE CLEARING: 8,726,789 SF  
TOTAL: 9,568,780 SF  
IF ≥ 1 AC, PROVIDE WDDID#:

**PLAN CHECK/PERMITS**

BUILDING PERMIT PLAN CHECK NUMBER:  
PARCEL MAP NUMBER:  
**ENGINEER OF WORK**  
I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT AND THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT.  
Savas E. Kolankaya DATE:  
RCE NO: C-43628 EXPIRES: 12/31/14  
TELEPHONE NUMBER: (510) 260-6544

**PRIVATE CONTRACT**

COUNTY OF SAN DIEGO  
DEPARTMENT OF PLANNING AND LAND USE

PRELIMINARY GRADING PLAN FOR:  
**80 MW SOLAR SYSTEM  
RUGGED SOLAR LLC**

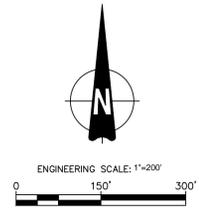
SHEET NUMBER: C-204 REV: 3 SHEET: 5 OF SHEETS: 7  
APPROVED DIRECTOR OF PLANNING AND LAND USE: GRADING PERMIT NUMBER:  
BY: DATE:

PRELIMINARY

FILE NAME: C:\USERS\OROZCOG\DESKTOP\SOITEC SOLAR PROJECTS\RUGGED\GRADING AND DRAINAGE\DRAWINGS\WORKING GRADING\C-205\_C-205\_GRADING\_REV3.DWG LAST SAVED BY: OROZCOG PLOT DATE: 12/23/2014 2:52:19 PM

# PRELIMINARY GRADING PLAN

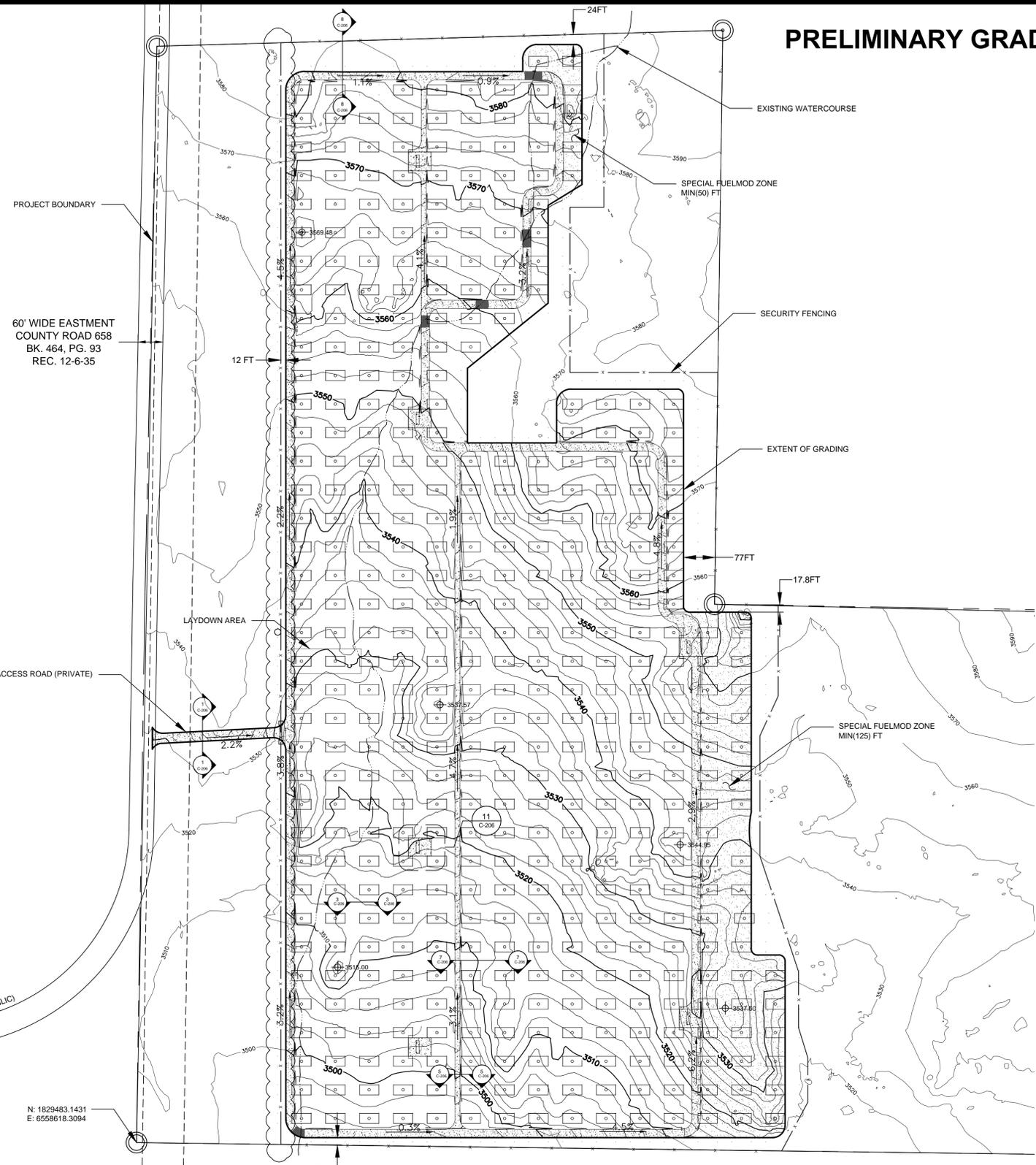
## VICINITY MAP



## GRADING LEGEND

- SECURITY FENCING: — X — X —
- EXISTING WATERCOURSE: ————
- EXISTING CONTOUR: ———— 2.75
- PROPOSED CONTOUR: ———— 2.75
- EXTENT OF GRADING: ————
- GATE: ————
- SURFACING FOR PRIMARY AND SECONDARY ACCESS ROADS: [Pattern]

WATERSTONE EARTHWORK	
BASE SURFACE	EXISTING GROUND
COMPARISON SURFACE	FUTURE GROUND
AREA SQ. FT.	2,787,979
AREA, acres	64
CUT, Cu. Yd.	5819
FILL, Cu. Yd.	5819
NET, Cu. Yd.	0



MATCHLINE SEE SHEET C-204

60' WIDE EASTMENT COUNTY ROAD 658 BK. 464, PG. 93 REC. 12-6-35

PROPOSED ACCESS ROAD (PRIVATE)

N: 1829483.1431  
E: 6558618.3094

**CLIENT**

**Soitec**

Soitec Solar Development, LLC  
4250 Executive Square, Suite 770  
San Diego, CA 92037-9178

**AECOM**

AECOM TECHNICAL SERVICES, INC  
440 Stevens Avenue, Suite 250  
Solana Beach, CA 98075  
858.947.7144 tel 858.947.7145 fax  
www.aecom.com

**PROPERTY OWNER INFORMATION**

NAME: Waterstone Support Foundation Inc. John Gibson  
ADDRESS: 2925 Professional PI #200  
Colorado Springs, CA 80904  
TELEPHONE NUMBER: (619) 440-7424  
(24 HOUR CONTACT NUMBER)  
SITE A.P.N. NUMBER: 611-110-01  
ADJACENT A.P.N. NUMBERS: 611-110-04, 611-100-06, 611-110-02

**GRADING ON ADJACENT PARCELS**

LIST ANY ADJACENT PARCELS UNDER THE SAME OWNERSHIP AS THIS PARCEL FOR WHICH A GRADING PLAN HAS BEEN SUBMITTED OR A GRADING PERMIT ISSUED:

APN(s): \_\_\_\_\_

**PROPERTY OWNER CERTIFICATION**

I CERTIFY THAT I HAVE READ AND UNDERSTAND THE STORMWATER MANAGEMENT NOTES AND THE GRADING NOTES:

OWNER'S SIGNATURE (REQUIRED): \_\_\_\_\_ DATE: \_\_\_\_\_

**DISTURBED AREA CALCS**

PAD + SLOPES: 214,904 SF  
DRIVEWAY: 8,370 SF  
PRIMARY SEPTIC: \_\_\_\_\_ SF  
FIRE CLEARING: 2,564,705 SF  
TOTAL: 2,787,979 SF  
IF ≥ 1 AC, PROVIDE WDD#: \_\_\_\_\_

**PLAN CHECK/PERMITS**

BUILDING PERMIT PLAN CHECK NUMBER: \_\_\_\_\_  
PARCEL MAP NUMBER: \_\_\_\_\_

**ENGINEER OF WORK**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT AND THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT.

Savas E. Kolankaya DATE: \_\_\_\_\_  
RCE NO: C-43628 EXPIRES: 12/31/14  
TELEPHONE NUMBER: (610) 260-6544

**PRIVATE CONTRACT**

COUNTY OF SAN DIEGO  
DEPARTMENT OF PLANNING AND LAND USE

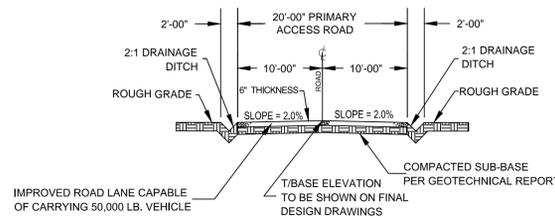
PRELIMINARY GRADING PLAN FOR:  
**80 MW SOLAR SYSTEM  
RUGGED SOLAR LLC**

SHEET NUMBER: C-205 REV: 3 SHEET: 6 OF SHEETS: 7

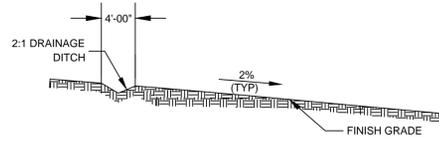
APPROVED DIRECTOR OF PLANNING AND LAND USE: \_\_\_\_\_ GRADING PERMIT NUMBER: \_\_\_\_\_  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

PRELIMINARY

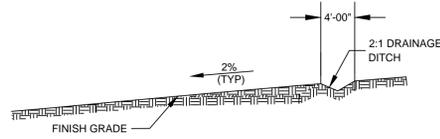
# DETAILS



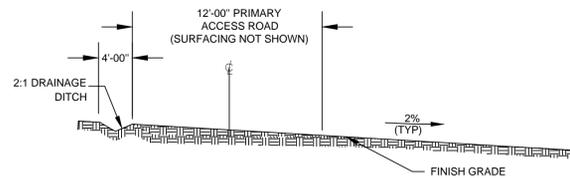
**1 TYPICAL CROSS SECTION**  
PRIMARY ACCESS ROAD NTS



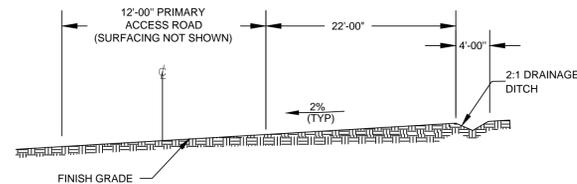
**2 TYPICAL CROSS SECTION**  
NTS



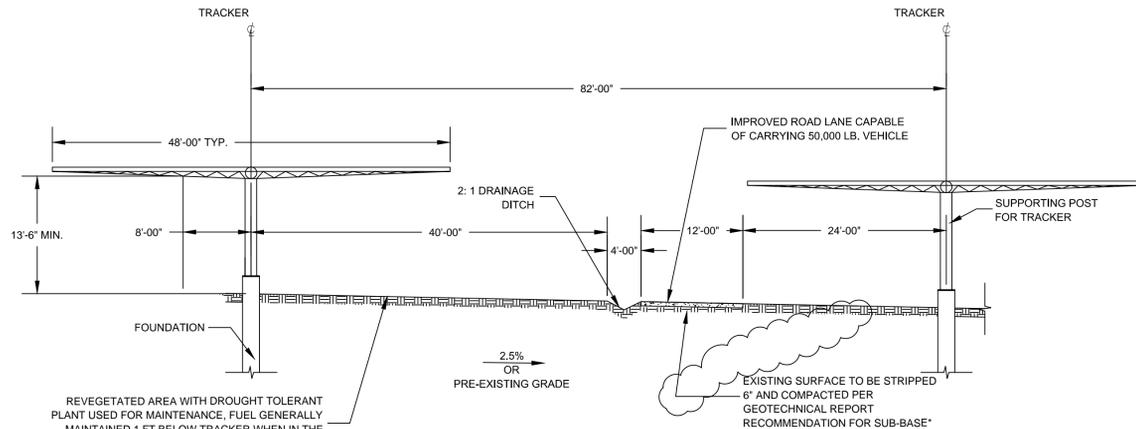
**3 TYPICAL CROSS SECTION**  
NTS



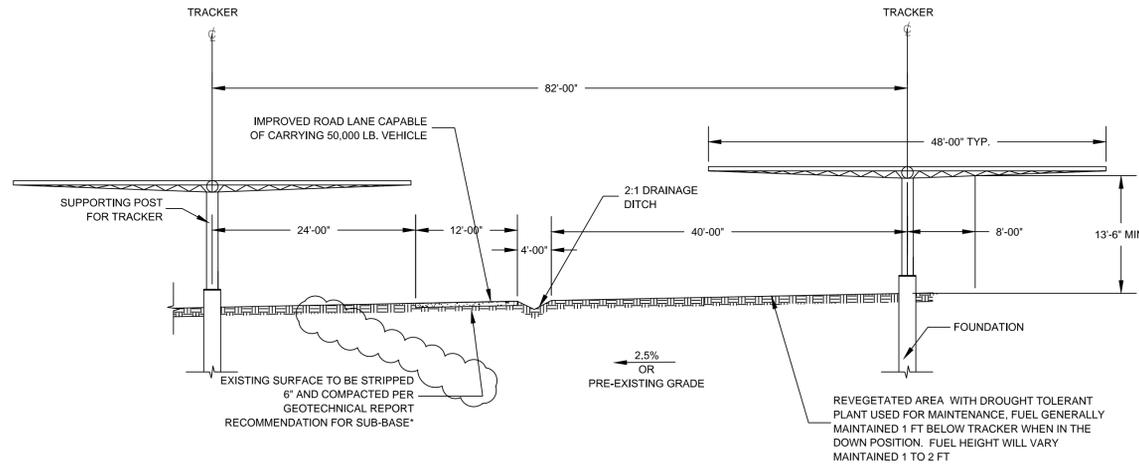
**4 TYPICAL CROSS SECTION**  
SECONDARY ACCESS ROAD NTS



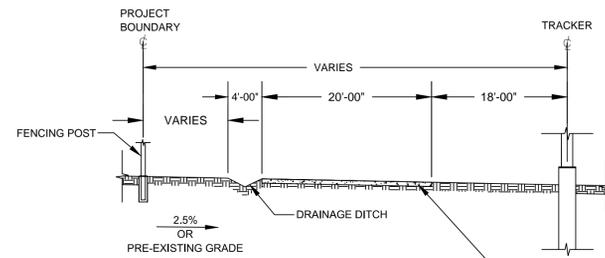
**5 TYPICAL CROSS SECTION**  
SECONDARY ACCESS ROAD NTS



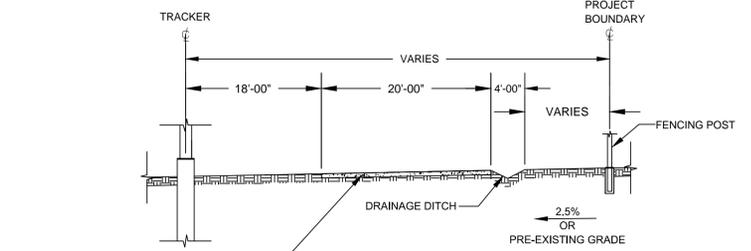
**6 TYPICAL CROSS SECTION**  
EMERGENCY VEHICLE ACCESS NTS



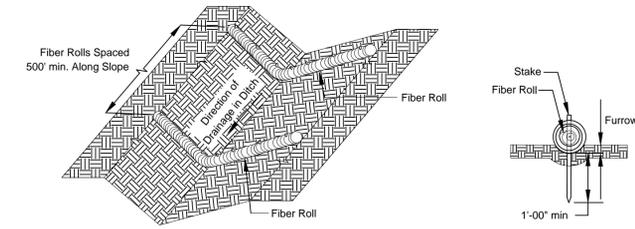
**7 TYPICAL CROSS SECTION**  
EMERGENCY VEHICLE ACCESS NTS



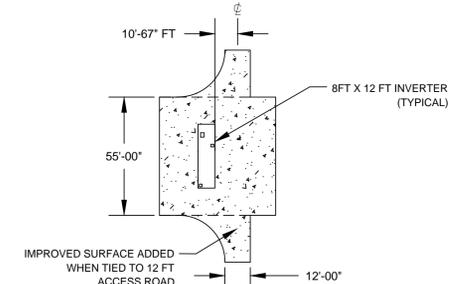
**8 TYPICAL CROSS SECTION**  
NTS



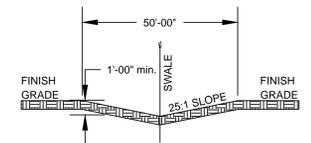
**9 TYPICAL CROSS SECTION**  
NTS



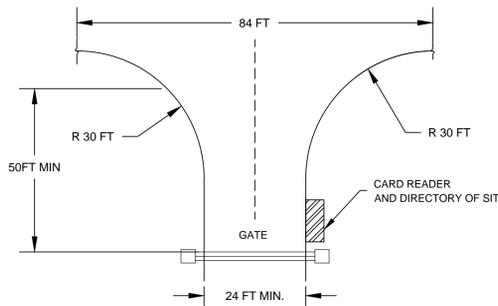
**10 DETAIL - FIBER ROLL**  
NTS



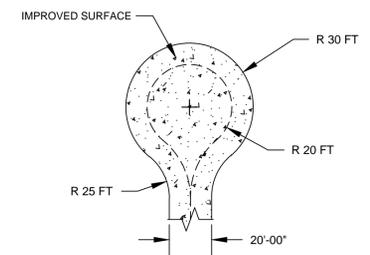
**11 DETAIL - DECOMPOSED GRANITE PAD**  
NTS



**12 DETAIL - SWALE**  
NTS



**13 DETAIL - DRIVEWAY ENTRANCE**  
NTS



**14 DETAIL - TURNAROUND**  
NTS

**CLIENT**

**Soitec Solar Development, LLC**  
4250 Executive Square, Suite 770  
San Diego, CA 92037-9178

**AECOM**

AECOM TECHNICAL SERVICES, INC  
440 Stevens Avenue, Suite 250  
Solana Beach, CA 98075  
858.947.7144 tel 858.947.7145 fax  
www.aecom.com

**PROPERTY OWNER INFORMATION**

NAME: SEE SHEETS C-202 THROUGH C-205

ADDRESS: \_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_  
(24-HOUR CONTACT NUMBER)

SITE A.P.N. NUMBER: \_\_\_\_\_

ADJACENT A.P.N. NUMBERS: \_\_\_\_\_

**GRADING ON ADJACENT PARCELS**

LIST ANY ADJACENT PARCELS UNDER THE SAME OWNERSHIP AS THIS PARCEL FOR WHICH A GRADING PLAN HAS BEEN SUBMITTED OR A GRADING PERMIT ISSUED:

APN(s): \_\_\_\_\_

**PROPERTY OWNER CERTIFICATION**

I CERTIFY THAT I HAVE READ AND UNDERSTAND THE STORMWATER MANAGEMENT NOTES AND THE GRADING NOTES:

OWNER'S SIGNATURE (REQUIRED): \_\_\_\_\_ DATE: \_\_\_\_\_

**DISTURBED AREA CALCS**

PAD + SLOPES: \_\_\_\_\_ SF

DRIVEWAY: \_\_\_\_\_ SF

PRIMARY SEPTIC: \_\_\_\_\_ SF

FIRE CLEARING: \_\_\_\_\_ SF

TOTAL: \_\_\_\_\_ SF

IF ≥ 1 AC, PROVIDE WDI# : \_\_\_\_\_

**PLAN CHECK/PERMITS**

BUILDING PERMIT PLAN CHECK NUMBER: \_\_\_\_\_

PARCEL MAP NUMBER: \_\_\_\_\_

**ENGINEER OF WORK**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT AND THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT.

NAME: Savas E. Kolankaya DATE: \_\_\_\_\_

RCE NO: C 43628 EXPIRES: 12/31/14

**PRIVATE CONTRACT**

COUNTY OF SAN DIEGO  
DEPARTMENT OF PLANNING AND LAND USE

PRELIMINARY GRADING PLAN FOR:  
**80 MW SOLAR SYSTEM  
RUGGED SOLAR LLC**

SHEET NUMBER: C-206 REV: 2 SHEET: 7 OF SHEETS: 7

APPROVED DIRECTOR OF PLANNING AND LAND USE: \_\_\_\_\_ GRADING PERMIT NUMBER: \_\_\_\_\_

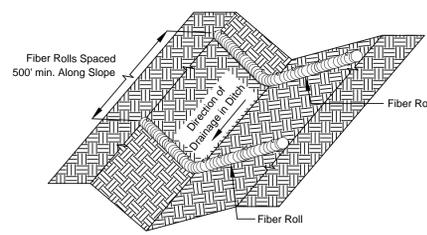
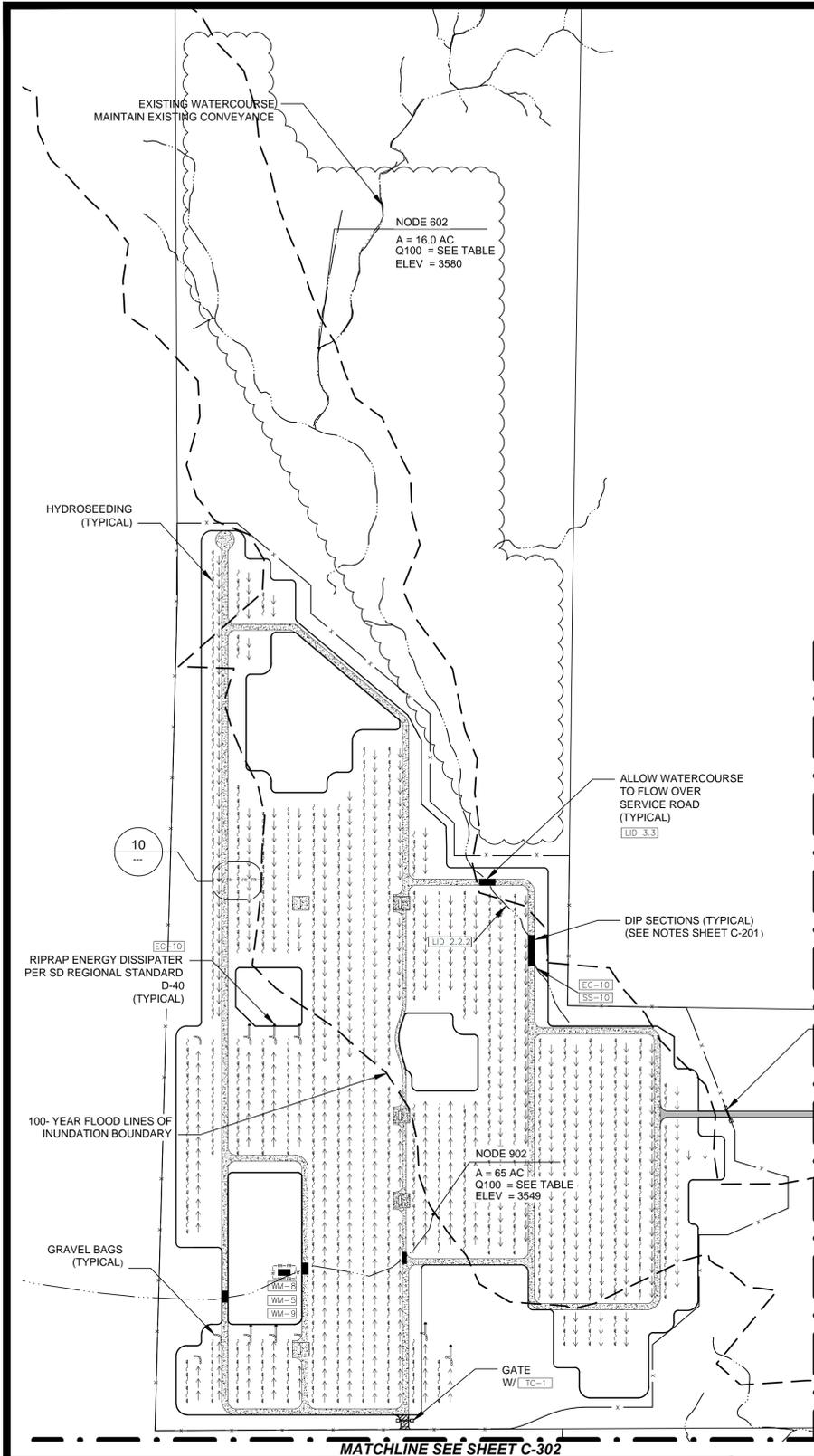
DATE: \_\_\_\_\_

PRELIMINARY

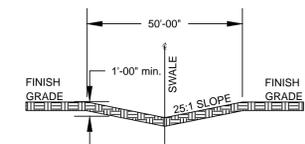
FILE NAME: C:\USERS\ORZCOG\DESKTOP\SOITEC SOLAR PROJECTS\RUGGED GRADING AND DRAINAGE\WORKING DETAIL DRAWINGS\C-206\_DETAILS\_RUGGED\_REV2.DWG PLOT DATE: 9/9/2014 3:28:23 PM LAST SAVED BY: ORZCOG

FILE NAME: C:\USERS\OROZCOG\DESKTOP\SOITEC SOLAR PROJECTS\RUGGED\GRADING AND DRAINAGE\DRAWING\WORKING DRAINAGE\CAD\C-301-C-304\_DRAINAGE\_RUGGED.DWG PLOT DATE: 12/23/2014 4:02:07 PM LAST SAVED BY: OROZCOG

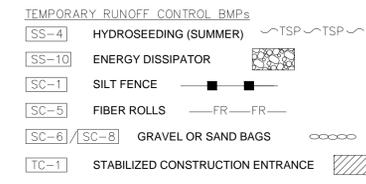
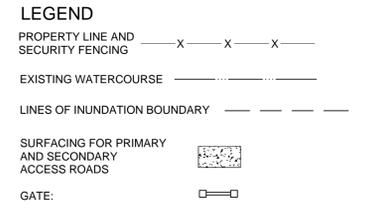
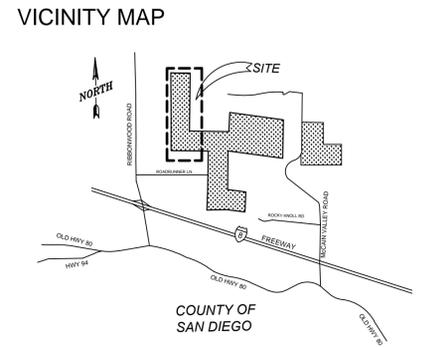
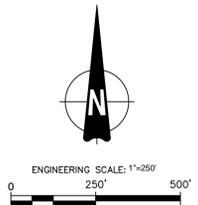
# PRELIMINARY DRAINAGE AND BMP PLAN



**10 DETAIL - FIBER ROLL**  
NTS



**12 DETAIL - SWALE**  
TYPICAL FOR MAINTAINING EXISTING WATERCOURSE  
NTS



Proposed Road Crossings of Existing Watercourses				
Watercourse No.	Dip Crossing Down Stream Node.	100-year Design Flow Rate	Flow Depth	Flooded Width
		cfs	ft	ft
200	204	444	1.37	47.4
	204	444	1.37	47.4
600	602	96	0.61	32.2
	602	96	0.61	32.2
900	902	70	0.51	30.2
	1303	44	0.39	27.80
1400	1303	44	0.39	27.80
	1402	15	0.21	24.20
	1402	15	0.21	24.20
	1402	15	0.21	24.20
1500	1502	73	0.51	30.20
	1502	73	0.51	30.20
	1502	73	0.51	30.20
	1502	73	0.51	30.20
1800	1803	71	0.51	30.20
	1803	71	0.51	30.20
	1803	71	0.51	30.20
	1803	71	0.51	30.20
1900	1803	71	0.51	30.20
	1803	71	0.51	30.20
	1902	122	0.69	33.8
	1902	122	0.69	33.80
2000	2004	374	1.25	45.00
	2004	374	1.25	45.00
	2004	374	1.25	45.00
	2004	374	1.25	45.00

\*Assume a 10% road slope down into the crossing

**CLIENT**

**Soitec Solar Development, LLC**  
4250 Executive Square, Suite 770  
San Diego, CA 92037-9178

**AECOM**

AECOM TECHNICAL SERVICES, INC  
440 Stevens Avenue, Suite 250  
Solana Beach, CA 98075  
858.947.7144 tel 858.947.7145 fax  
www.aecom.com

**PROPERTY OWNER INFORMATION**

NAME: Vista Oaks Business Park, John Gibson  
ADDRESS: 1000 Pioneer Way  
El Cajon, CA 92020  
TELEPHONE NUMBER: (619) 440-7424  
SITE A.P.N. NUMBER: 611-090-04, 611-091-03, 611-090-02, 611-060-04, 611-090-04, 611-090-18, 611-060-07, 611-090-14, 611-090-115, 611-091-17  
ADJACENT A.P.N. NUMBER: 611-060-03, 611-060-04, 611-060-05, 611-090-19, 611-090-20, 611-090-20

**GRADING ON ADJACENT PARCELS**

LIST ANY ADJACENT PARCELS UNDER THE SAME OWNERSHIP AS THIS PARCEL FOR WHICH A GRADING PLAN HAS BEEN SUBMITTED OR A GRADING PERMIT ISSUED:

APN(s):

**PROPERTY OWNER CERTIFICATION**

I CERTIFY THAT I HAVE READ AND UNDERSTAND THE STORMWATER MANAGEMENT NOTES AND THE GRADING NOTES:

OWNER'S SIGNATURE (REQUIRED): \_\_\_\_\_ DATE: \_\_\_\_\_

**DISTURBED AREA CALCS**

PAD + SLOPES: 3,390,942 SF  
DRIVEWAY: 1,425 SF  
PRIMARY SEPTIC: \_\_\_\_\_ SF  
FIRE CLEARING: \_\_\_\_\_ SF  
TOTAL: 3,177,251 SF  
IF ≥ 1 AC, PROVIDE WDID# : \_\_\_\_\_

**PLAN CHECK/PERMITS**

BUILDING PERMIT PLAN CHECK NUMBER: \_\_\_\_\_  
PARCEL MAP NUMBER: \_\_\_\_\_

**ENGINEER OF WORK**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT AND THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT.

NAME: Savas E. Kolankaya DATE: \_\_\_\_\_  
RCE NO: C-43628 EXPIRES: 12/31/14  
TELEPHONE NUMBER: (510) 260-6544

**PRIVATE CONTRACT**

COUNTY OF SAN DIEGO  
DEPARTMENT OF PLANNING AND LAND USE

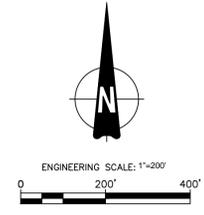
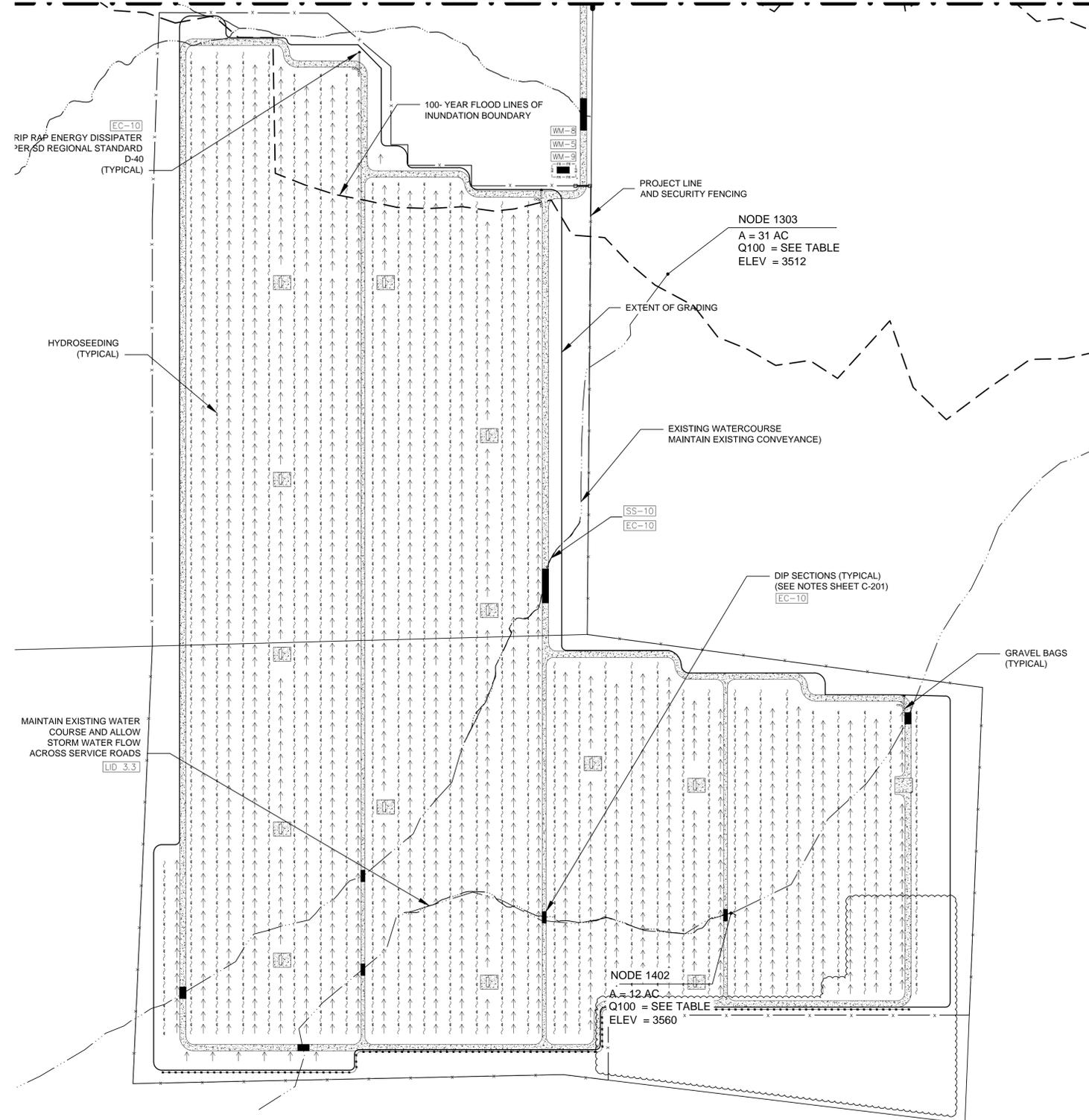
PRELIMINARY DRAINAGE PLAN FOR:  
**80 MW SOLAR SYSTEM  
RUGGED SOLAR LLC**

SHEET NUMBER: C-301 REV: 3 SHEET: 1 OF SHEETS: 4  
APPROVED DIRECTOR OF PLANNING AND LAND USE: \_\_\_\_\_ GRADING PERMIT NUMBER: \_\_\_\_\_  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

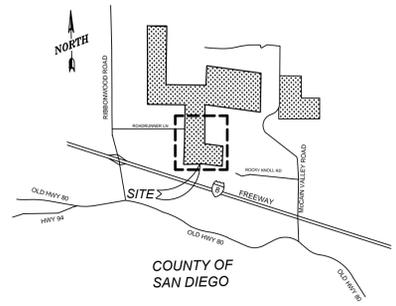
PRELIMINARY

# PRELIMINARY DRAINAGE AND BMP PLAN

MATCHLINE SEE SHEET C-303



## VICINITY MAP



## LEGEND

- PROPERTY LINE AND SECURITY FENCING: -X-X-X-
- EXISTING WATERCOURSE: - - - - -
- LINE OF INUNDATION BOUNDARY: - - - - -
- SURFACING FOR PRIMARY AND SECONDARY ACCESS ROADS: [Pattern]
- GATE: [Symbol]

## BMP LEGEND

- DIRECTION OF LOT DRAINAGE: → →
- MATERIALS & WASTE MANAGEMENT CONTROL BMPs**
  - WM-8 PORTABLE CONCRETE WASTE MANAGEMENT
  - WM-5 SOLID WASTE MANAGEMENT
  - WM-9 SANITARY WASTE MANAGEMENT
- TEMPORARY RUNOFF CONTROL BMPs**
  - SS-4 HYDROSEEDING (SUMMER) ~TSP~TSP~
  - SS-10 ENERGY DISSIPATOR [Pattern]
  - SC-1 SILT FENCE [Symbol]
  - SC-5 FIBER ROLLS -FR-FR-
  - SC-6 / SC-8 GRAVEL OR SAND BAGS [Symbol]
  - TC-1 STABILIZED CONSTRUCTION ENTRANCE [Pattern]
- PERMANENT BMPs**
  - SD-10 PROTECTION OF CHANNEL BANKS / MANUFACTURED SLOPES AND FLAT PAD AREA COVERAGE
  - EC-10 OUTLET PROTECTION
- LOW IMPACT DEVELOPMENT BMPs**
  - LID 2.2.2 MINIMIZE DISTURBANCES TO NATURAL DRAINAGES
  - LID 2.2.3 MINIMIZE AND DISCONNECT IMPERVIOUS SURFACE
  - LID 2.2.4 MINIMIZE SOIL COMPACTION
  - LID 3.3 ROAD DESIGN FOR DEVELOPMENTS

FILE NAME: C:\USERS\OROZCOG\DESKTOP\SOITEC SOLAR PROJECTS\RUGGED\GRADING AND DRAINAGE\WORKING DRAINAGE\CAD\C-303\C-303\_DRAINAGE\_RUGGED.DWG LAST SAVED BY: OROZCOG PLOT DATE: 12/22/2014 4:01:38 PM

**CLIENT**

**Soitec Solar Development, LLC**  
4250 Executive Square, Suite 770  
San Diego, CA 92037-9178

**AECOM**  
AECOM TECHNICAL SERVICES, INC  
440 Stevens Avenue, Suite 250  
Solana Beach, CA 98075  
858.947.7144 tel 858.947.7145 fax  
www.aecom.com

**PROPERTY OWNER INFORMATION**

NAME: Frankie Thibodeau  
ADDRESS: 39990 Roadrunner Ln  
Boulevard, CA 91905  
TELEPHONE NUMBER: (619) 766-9105  
SITE A.P.N. NUMBER: 611-091-07, 612-030-19, 612-030-01  
ADJACENT A.P.N. NUMBER: 611-091-07, 612-030-02, 612-030-21  
612-030-13, 611-100-006, 611-091-03, 611-091-02

**GRADING ON ADJACENT PARCELS**

LIST ANY ADJACENT PARCELS UNDER THE SAME OWNERSHIP AS THIS PARCEL FOR WHICH A GRADING PLAN HAS BEEN SUBMITTED OR A GRADING PERMIT ISSUED:

APN(s):

---

**PROPERTY OWNER CERTIFICATION**

I CERTIFY THAT I HAVE READ AND UNDERSTAND THE STORMWATER MANAGEMENT NOTES AND THE GRADING NOTES:

OWNER'S SIGNATURE (REQUIRED): \_\_\_\_\_ DATE: \_\_\_\_\_

**DISTURBED AREA CALCS**

PAD + SLOPES: 3,817,751 SF  
DRIVEWAY: 2,562 SF  
PRIMARY SEPTIC: \_\_\_\_\_ SF  
FIRE CLEARING: \_\_\_\_\_ SF  
TOTAL: 5,796,179 SF  
IF ≥ 1 AC, PROVIDE WDI#: \_\_\_\_\_

**PLAN CHECK/PERMITS**

BUILDING PERMIT PLAN CHECK NUMBER: \_\_\_\_\_  
PARCEL MAP NUMBER: \_\_\_\_\_

**ENGINEER OF WORK**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT AND THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT.

NAME: Savas E. Kolankaya DATE: \_\_\_\_\_  
RCE NO: C-43628 EXPIRES: 12/31/14  
TELEPHONE NUMBER: (610) 260-6544

**PRIVATE CONTRACT**

COUNTY OF SAN DIEGO  
DEPARTMENT OF PLANNING AND LAND USE

PRELIMINARY DRAINAGE PLAN FOR:  
**80 MW SOLAR SYSTEM  
RUGGED SOLAR LLC**

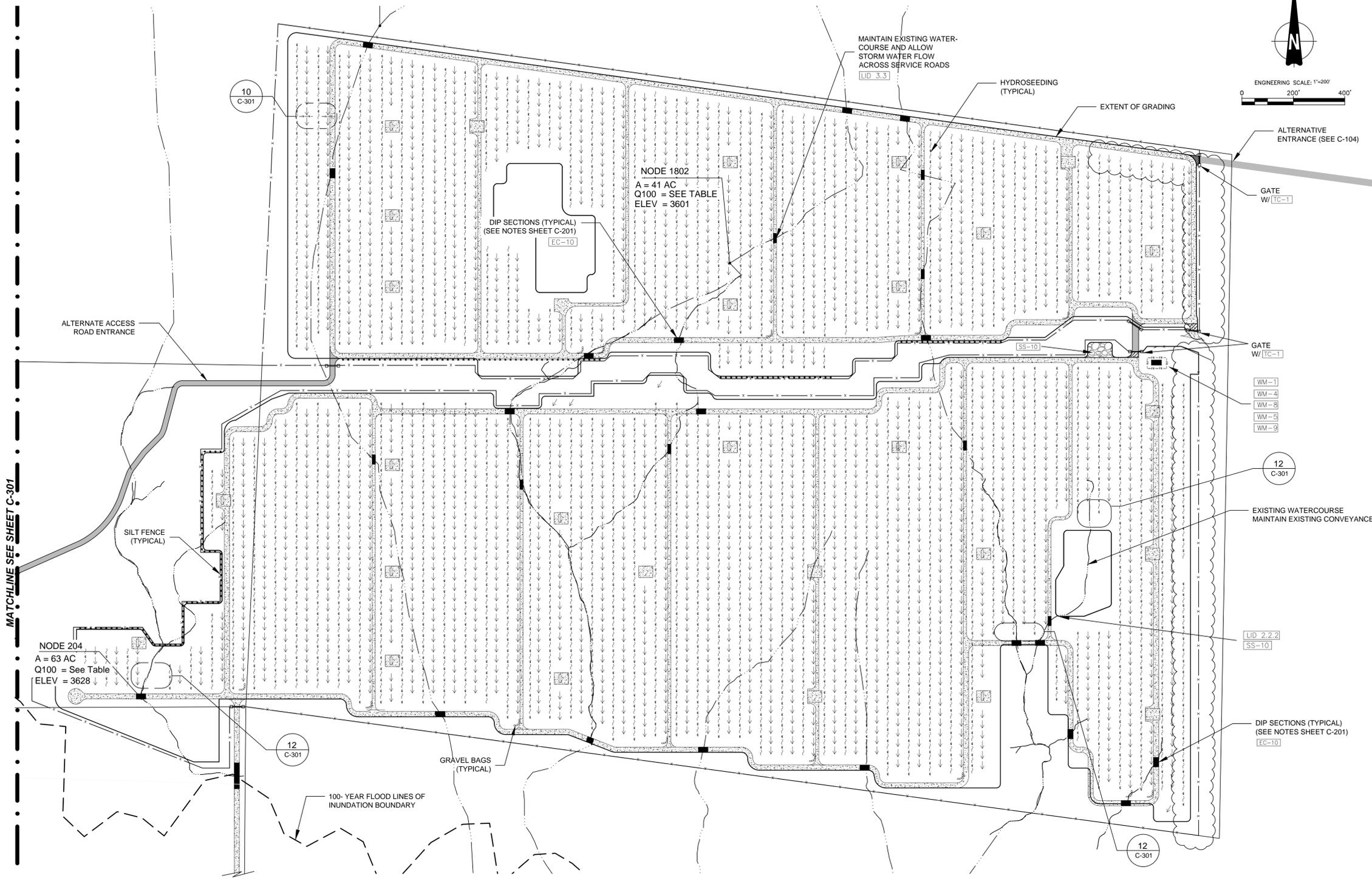
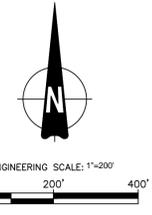
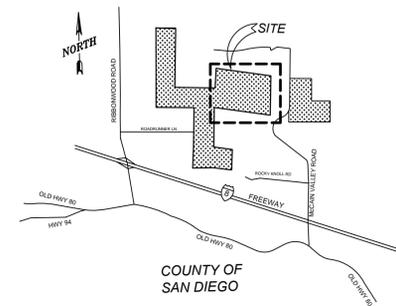
SHEET NUMBER: C-302 REV: 3 SHEET: 2 OF SHEETS: 4

APPROVED DIRECTOR OF PLANNING AND LAND USE: \_\_\_\_\_ GRADING PERMIT NUMBER: \_\_\_\_\_  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

PRELIMINARY

# PRELIMINARY DRAINAGE AND BMP PLAN

## VICINITY MAP



### LEGEND

- SECURITY FENCING — X — X — X —
- EXISTING WATERCOURSE ————
- LINE OF INUNDATION BOUNDARY - - - - -
- SURFACING FOR PRIMARY AND SECONDARY ACCESS ROADS [Pattern]
- GATE: [Symbol]

### BMP LEGEND

- DIRECTION OF LOT DRAINAGE → →
- MATERIALS & WASTE MANAGEMENT CONTROL BMPs**
- WM-8 PORTABLE CONCRETE WASTE MANAGEMENT
  - WM-5 SOLID WASTE MANAGEMENT
  - WM-9 SANITARY WASTE MANAGEMENT
- TEMPORARY RUNOFF CONTROL BMPs**
- SS-4 HYDROSEEDING (SUMMER) ~TSP~TSP~
  - SS-10 ENERGY DISSIPATOR [Pattern]
  - SC-1 SILT FENCE [Symbol]
  - SC-5 FIBER ROLLS — FR — FR —
  - SC-6 / SC-8 GRAVEL OR SAND BAGS [Pattern]
  - TC-1 STABILIZED CONSTRUCTION ENTRANCE [Pattern]
- PERMANENT BMPs**
- SD-10 PROTECTION OF CHANNEL BANKS / MANUFACTURED SLOPES AND FLAT PAD AREA COVERAGE
  - EC-10 OUTLET PROTECTION
- LOW IMPACT DEVELOPMENT BMPs**
- LID 2.2.2 MINIMIZE DISTURBANCES TO NATURAL DRAINAGES
  - LID 2.2.3 MINIMIZE AND DISCONNECT IMPERVIOUS SURFACE
  - LID 2.2.4 MINIMIZE SOIL COMPACTION
  - LID 3.3 ROAD DESIGN FOR DEVELOPMENTS

FILE NAME: C:\USERS\OROZCOG\DESKTOP\SOITEC SOLAR PROJECTS\RUGGED\GRADING AND DRAINAGE\GRADING & DRAINAGE\DRAWING\WORKING\DRAINAGE\CAD\C-304\_DRAINAGE\_RUGGED.DWG LAST SAVED BY: OROZCOG PLOT DATE: 12/23/2014 4:03:23 PM

MATCHLINE SEE SHEET C-301

MATCHLINE SEE SHEET C-304

**CLIENT**

**Soitec Solar Development, LLC**  
4250 Executive Square, Suite 770  
San Diego, CA 92037-9178

**AECOM**  
AECOM TECHNICAL SERVICES, INC  
440 Stevens Avenue, Suite 250  
Solana Beach, CA 98075  
858.947.7144 tel 858.947.7145 fax  
www.aecom.com

**PROPERTY OWNER INFORMATION**

NAME: Harmony Grove Partners John Gibson  
ADDRESS: 1000 Pioneer Way  
El Cajon, CA 92020  
TELEPHONE NUMBER: (619) 440-7424  
(24 HOUR CONTACT NUMBER)  
SITE A.P.N. NUMBER: 611-100-07  
ADJACENT A.P.N. NUMBER: 611-100-06, 611-091-03, 611-070-03  
611-070-01, 611-060-03, 611-090-03, 611-090-04

**GRADING ON ADJACENT PARCELS**

LIST ANY ADJACENT PARCELS UNDER THE SAME OWNERSHIP AS THIS PARCEL FOR WHICH A GRADING PLAN HAS BEEN SUBMITTED OR A GRADING PERMIT ISSUED:

APN(s):

**PROPERTY OWNER CERTIFICATION**

I CERTIFY THAT I HAVE READ AND UNDERSTAND THE STORMWATER MANAGEMENT NOTES AND THE GRADING NOTES:

OWNER'S SIGNATURE (REQUIRED): DATE:

**DISTURBED AREA CALCS**

PAD + SLOPES: 837,935 SF  
DRIVEWAY: 4,056 SF  
PRIMARY SEPTIC: SF  
FIRE CLEARING: SF  
TOTAL: 9,568,780 SF  
IF ≥ 1 AC, PROVIDE WDDI#:

**PLAN CHECK/PERMITS**

BUILDING PERMIT PLAN CHECK NUMBER:  
PARCEL MAP NUMBER:

**ENGINEER OF WORK**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT AND THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT.

NAME: Savas E. Kolankaya DATE:  
RCE NO: C-43628 EXPIRES: 12/31/14  
TELEPHONE NUMBER: (510) 260-6544

**PRIVATE CONTRACT**

COUNTY OF SAN DIEGO  
DEPARTMENT OF PLANNING AND LAND USE

PRELIMINARY DRAINAGE PLAN FOR:  
**80 MW SOLAR SYSTEM  
RUGGED SOLAR LLC**

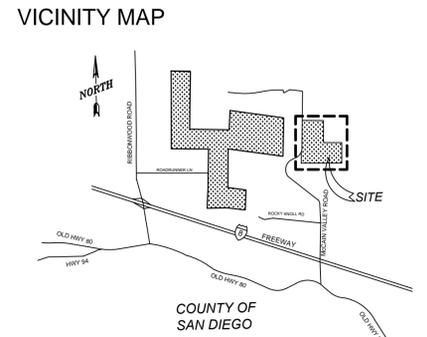
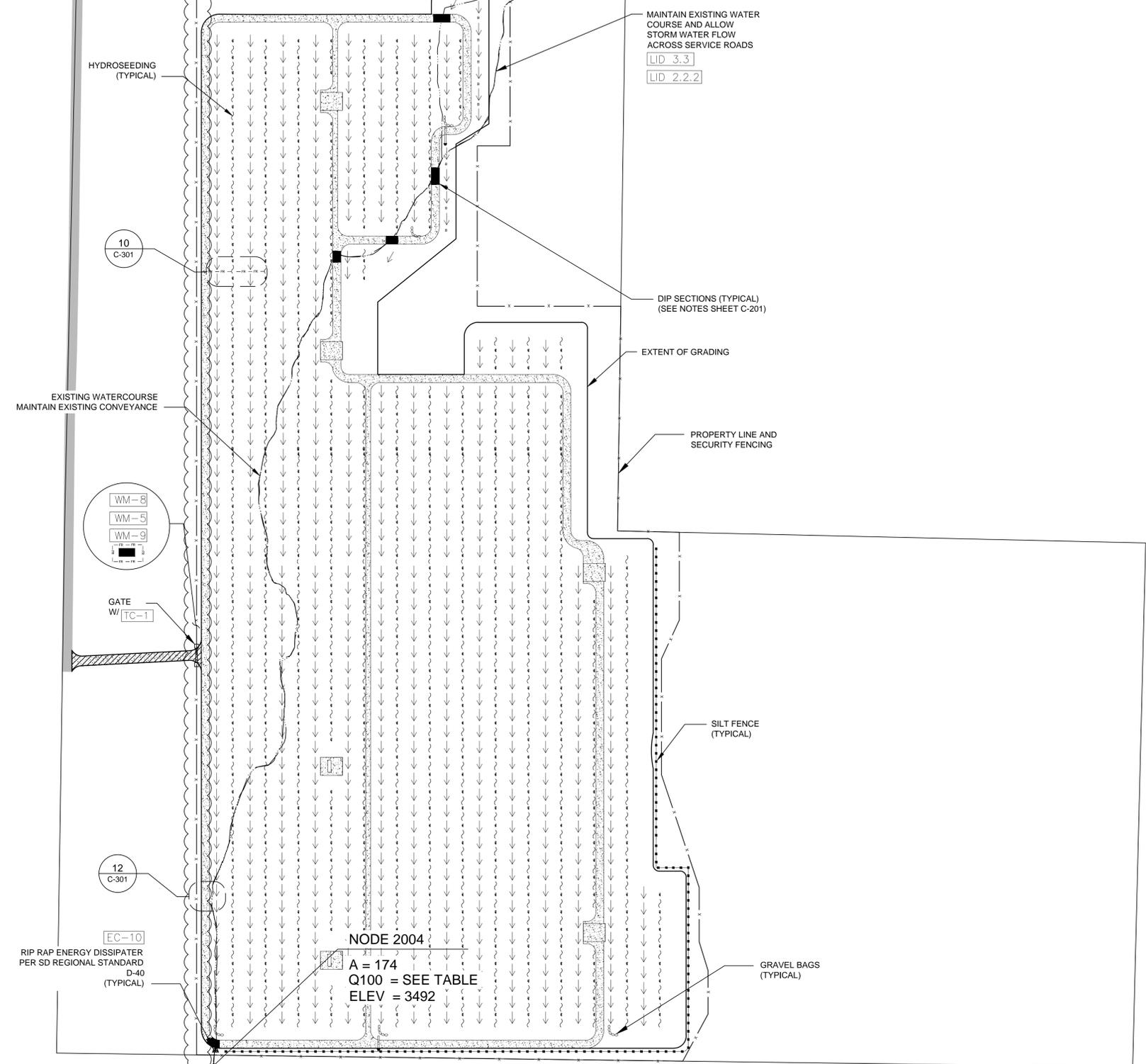
SHEET NUMBER: C-303 REV: 3 SHEET: 3 OF SHEETS: 4

APPROVED DIRECTOR OF PLANNING AND LAND USE: GRADING PERMIT NUMBER:  
BY: DATE:

PRELIMINARY

FILE NAME: C:\USERS\OROZCO\DESKTOP\SOITEC SOLAR PROJECTS\RUGGED\GRADING AND DRAINAGE\GRADING & DRAINAGE DRAWINGS\WORKING DRAINAGE\CAD\C-304\_DRAINAGE\_RUGGED.DWG LAST SAVED BY: OROZCOG PLOT DATE: 12/2/2014 4:04:22 PM

# PRELIMINARY DRAINAGE AND BMP PLAN



- LEGEND**
- SECURITY FENCING: X X X
  - EXISTING WATERCOURSE: [Symbol]
  - SURFACING FOR PRIMARY AND SECONDARY ACCESS ROADS: [Symbol]
  - GATE: [Symbol]
- BMP LEGEND**
- DPLU 659 BERM: B →
  - DIRECTION OF LOT DRAINAGE: →
- MATERIALS & WASTE MANAGEMENT CONTROL BMPs**
- WM-8 PORTABLE CONCRETE WASTE MANAGEMENT
  - WM-5 SOLID WASTE MANAGEMENT
  - WM-9 SANITARY WASTE MANAGEMENT
- TEMPORARY RUNOFF CONTROL BMPs**
- SS-4 HYDROSEEDING (SUMMER) TSP TSP
  - SS-10 ENERGY DISSIPATOR [Symbol]
  - SC-1 SILT FENCE [Symbol]
  - SC-5 FIBER ROLLS FR FR
  - SC-6 / SC-8 GRAVEL OR SAND BAGS [Symbol]
  - TC-1 STABILIZED CONSTRUCTION ENTRANCE [Symbol]
- PERMANENT BMPs**
- SD-10 PROTECTION OF CHANNEL BANKS / MANUFACTURED SLOPES AND FLAT PAD AREA COVERAGE
  - EC-10 OUTLET PROTECTION
- LOW IMPACT DEVELOPMENT BMPs**
- LID 2.2.2 MINIMIZE DISTURBANCES TO NATURAL DRAINAGES
  - LID 2.2.3 MINIMIZE AND DISCONNECT IMPERVIOUS SURFACE
  - LID 2.2.4 MINIMIZE SOIL COMPACTION
  - LID 3.3 ROAD DESIGN FOR DEVELOPMENTS

MATCHLINE SEE SHEET C-303

**CLIENT**

**Soitec**

Soitec Solar Development, LLC  
4250 Executive Square, Suite 770  
San Diego, CA 92037-9178

**AECOM**

AECOM TECHNICAL SERVICES, INC  
440 Stevens Avenue, Suite 250  
Solana Beach, CA 98075  
858.947.7144 tel 858.947.7145 fax  
www.aecom.com

**PROPERTY OWNER INFORMATION**

NAME: Waterstone Support Foundation Inc. John Gibson  
ADDRESS: 2925 Professional PI #200  
Colorado Springs, CA 80904  
TELEPHONE NUMBER: (619) 440-7424  
(24 HOUR CONTACT NUMBER)  
SITE A.P.N. NUMBER: 611-110-01  
ADJACENT A.P.N. NUMBER: 611-110-04, 611-100-06, 611-110-02

**GRADING ON ADJACENT PARCELS**

LIST ANY ADJACENT PARCELS UNDER THE SAME OWNERSHIP AS THIS PARCEL FOR WHICH A GRADING PLAN HAS BEEN SUBMITTED OR A GRADING PERMIT ISSUED:

APN(s):

---

**PROPERTY OWNER CERTIFICATION**

I CERTIFY THAT I HAVE READ AND UNDERSTAND THE STORMWATER MANAGEMENT NOTES AND THE GRADING NOTES:

OWNER'S SIGNATURE (REQUIRED): \_\_\_\_\_ DATE: \_\_\_\_\_

**DISTURBED AREA CALCS**

PAD + SLOPES: 214,904 SF  
DRIVEWAY: 8,370 SF  
PRIMARY SEPTIC: SF  
FIRE CLEARING: SF  
TOTAL: 2,787,979 SF  
IF ≥ 1 AC, PROVIDE WDI#: \_\_\_\_\_

**PLAN CHECK/PERMITS**

BUILDING PERMIT PLAN CHECK NUMBER: \_\_\_\_\_  
PARCEL MAP NUMBER: \_\_\_\_\_

**ENGINEER OF WORK**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT AND THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT.

NAME: Savas E. Kolankaya DATE: \_\_\_\_\_  
RCE NO: C-43628 EXPIRES: 12/31/14  
TELEPHONE NUMBER: (610) 260-6544

**PRIVATE CONTRACT**

COUNTY OF SAN DIEGO  
DEPARTMENT OF PLANNING AND LAND USE

PRELIMINARY DRAINAGE PLAN FOR:  
**80 MW SOLAR SYSTEM  
RUGGED SOLAR LLC**

SHEET NUMBER: C-304 REV: 3 SHEET: 4 OF SHEETS: 4

APPROVED DIRECTOR OF PLANNING AND LAND USE: \_\_\_\_\_ GRADING PERMIT NUMBER: \_\_\_\_\_  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

PRELIMINARY