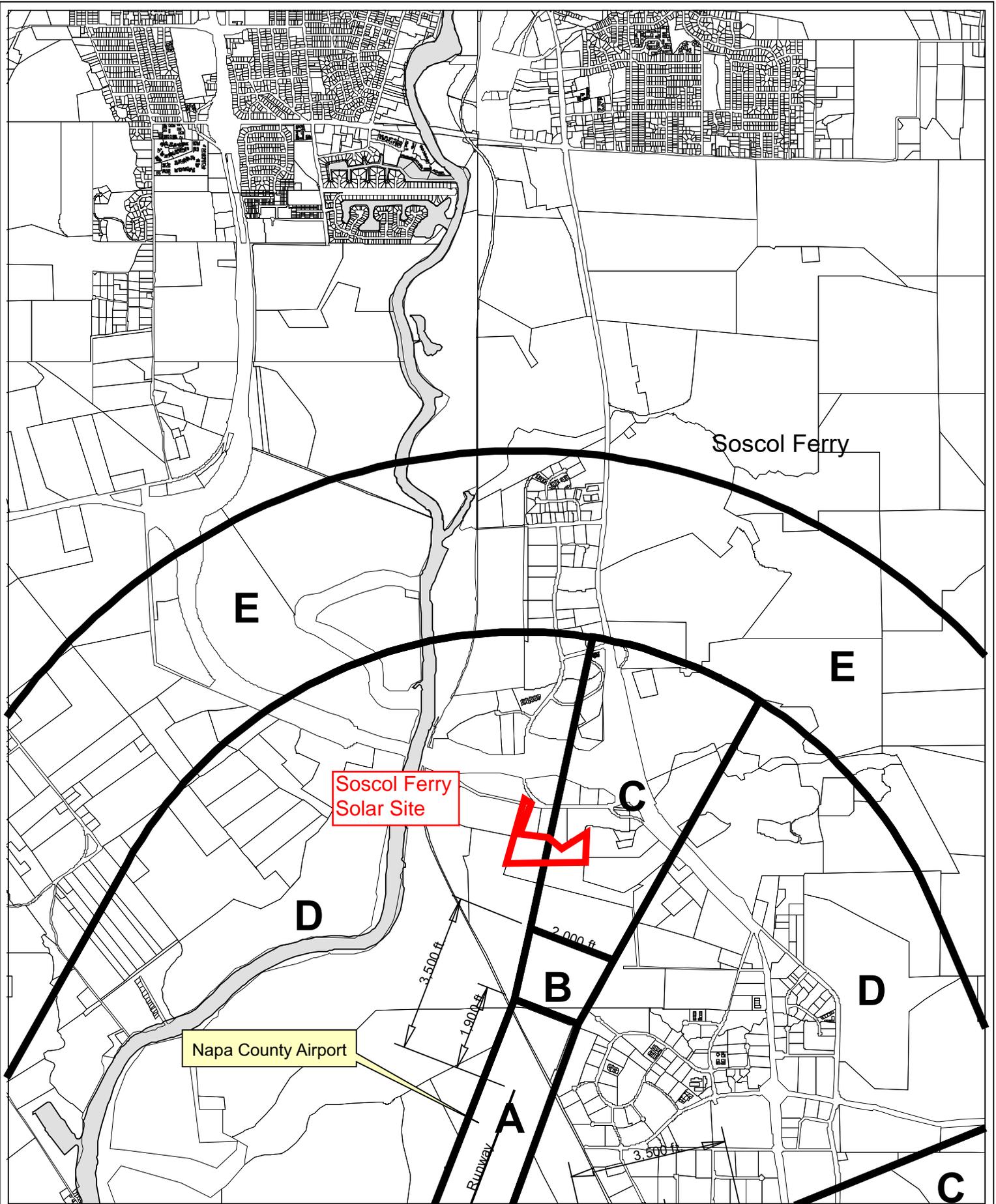


“D”

Graphics



Horizontal Datum: NAD 83,  
CA State Plane Coordinates,  
Zone II, feet



A Division of Conservation  
Environmental Services

Disclaimer: This map was prepared for informational purposes only. No liability is assumed for the accuracy of the data delineated herein.

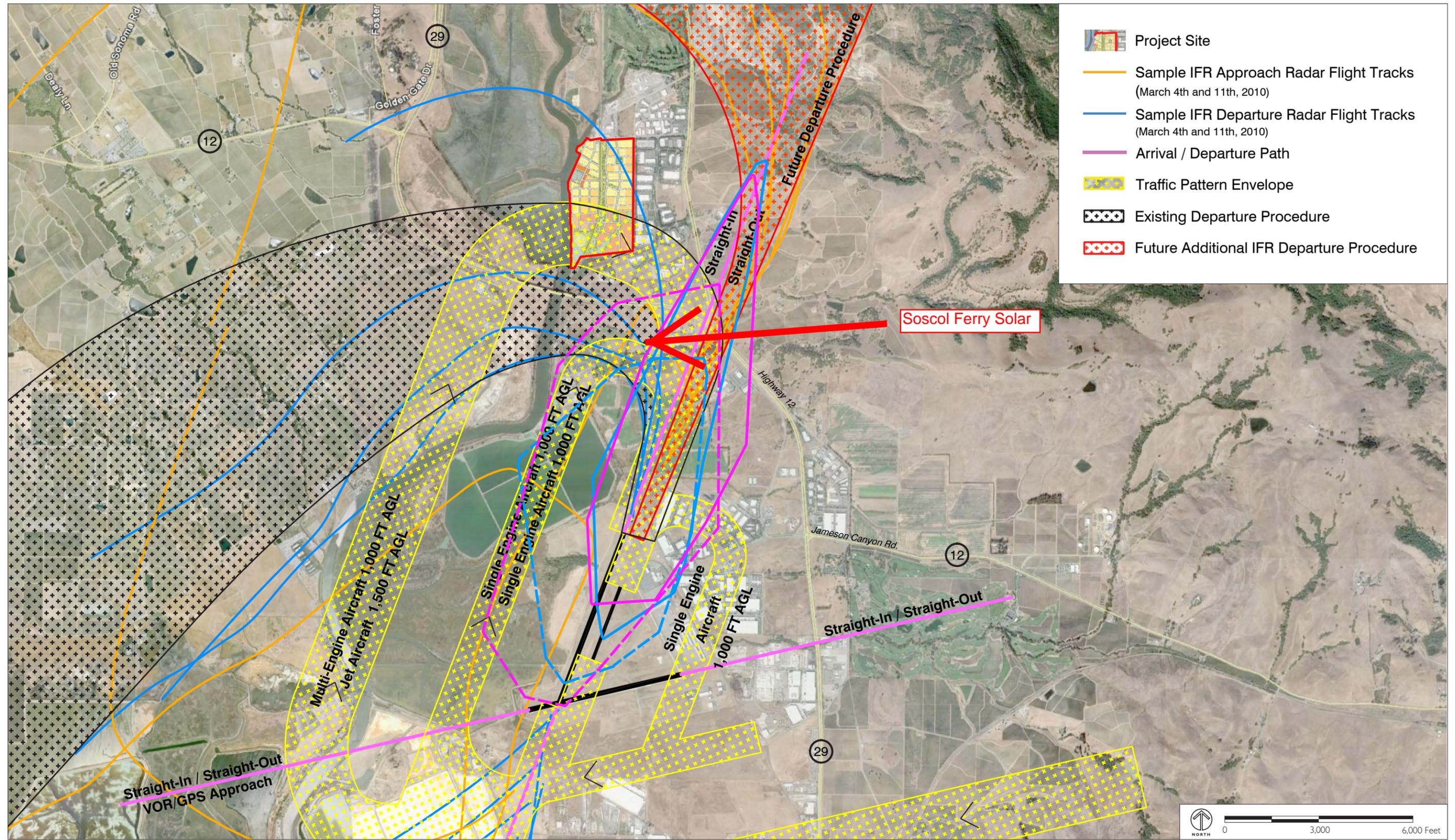
# Compatibility Plan

## Napa County Airport



0 700 1,400 2,800'

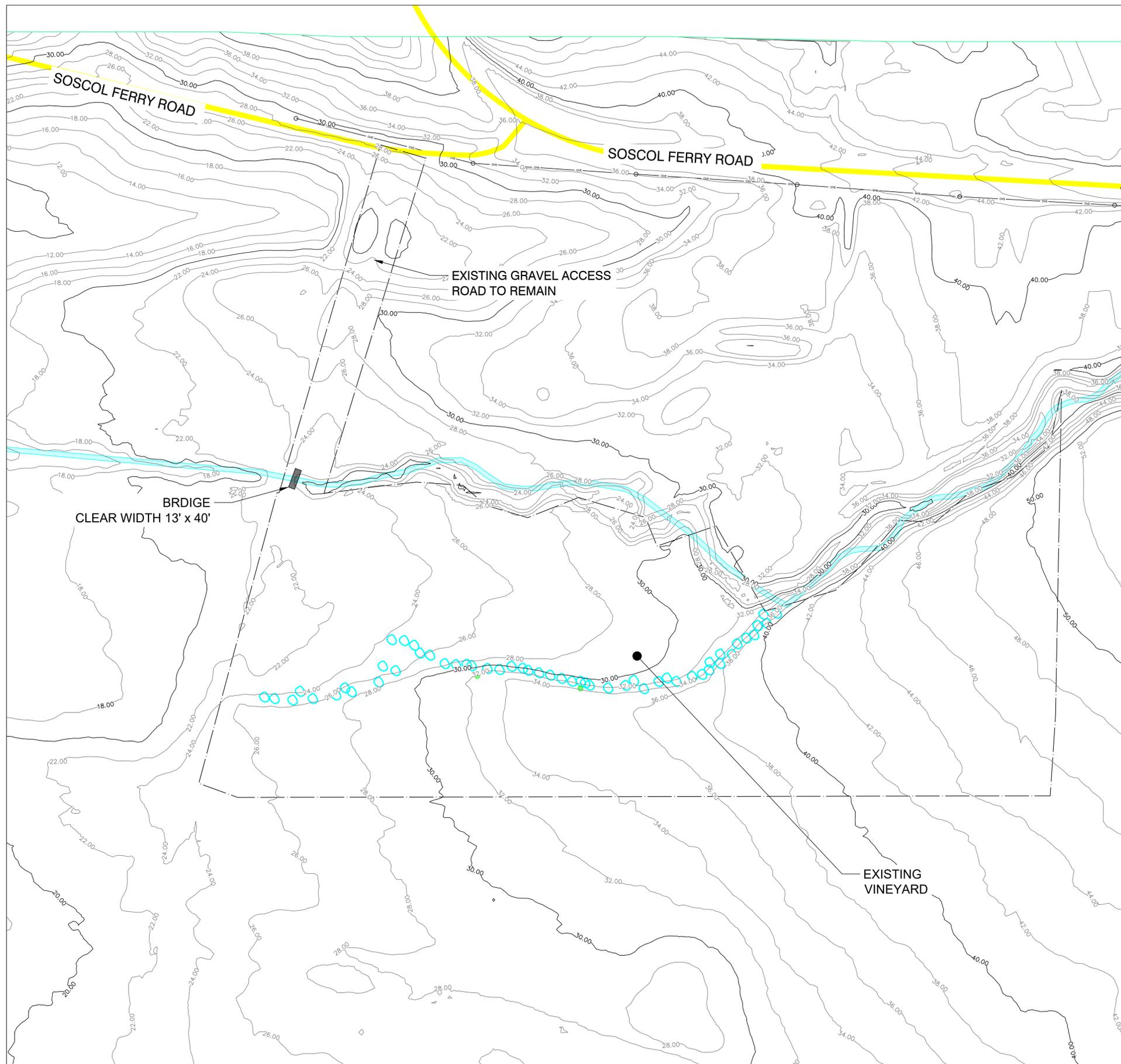
Napa County Conservation Division - 02/2012



Source: Mead & Hunt

FIGURE LA10-1  
 AIRCRAFT FLIGHT ROUTES NORTH OF NAPA COUNTY AIRPORT





LEGEND	
	12' WIDE SITE ACCESS GRAVEL ROAD
	(E) WETLAND
	PUBLIC ROAD
	PROPERTY LINE
	SETBACK
	(E) OH LINES
	EXISTING OAK TREE
	EXISTING TREES

**RENEWABLE  
PROPERTIES**



ENGINEER:  
CALIFORNIA  
ENGINEERING CO.  
OWNER OF RECORD:  
KIMBAL GRIGGS GILES &  
THERESE BLODGETT-GILES  
PROJECT APPLICANT:  
RP NAPA SOLAR 2, LLC

## SOSCOL FERRY SOLAR

SOSCOL FERRY RD,  
NAPA, CA 94559, USA

LAT: 38.237851°  
LON: -122.275392°

REV. NO.	DESCRIPTION	DATE
0	FOR UTILITY APPLICATION	09/17/19

SHEET TITLE:

## EXISTING SITE CONDITIONS

DRAWING NO.:

**PV-001**

DRAWN BY:

LR

REVIEWED BY:

DATE:

09/17/19

SCALE:

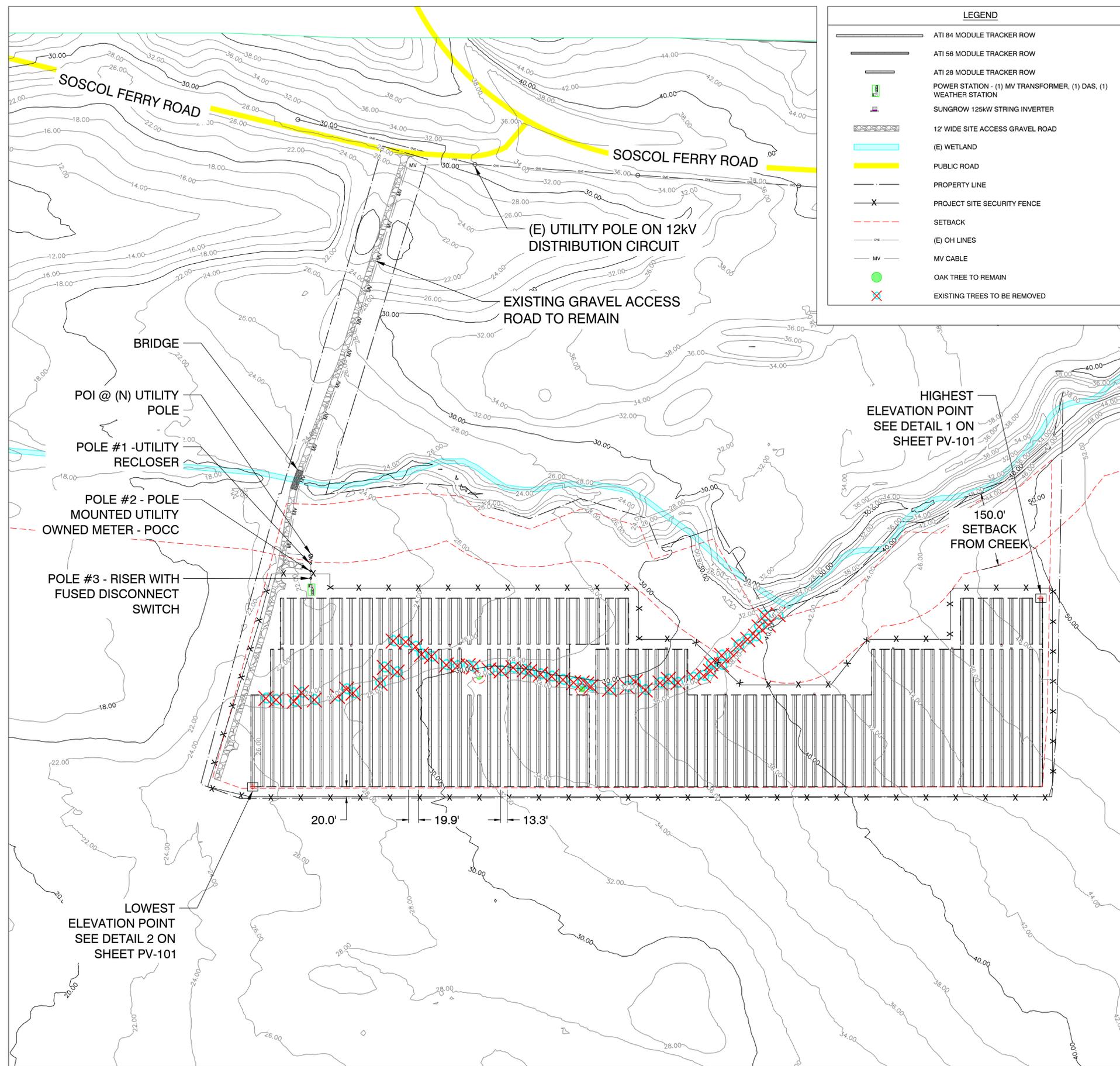
AS SHOWN

PROJECT NO.:

1 EXISTING SITE CONDITIONS



SCALE: 1"=100'



**LEGEND**

- ATI 84 MODULE TRACKER ROW
- ATI 56 MODULE TRACKER ROW
- ATI 28 MODULE TRACKER ROW
- POWER STATION - (1) MV TRANSFORMER, (1) DAS, (1) WEATHER STATION
- SUNGROW 125kW STRING INVERTER
- 12' WIDE SITE ACCESS GRAVEL ROAD
- (E) WETLAND
- PUBLIC ROAD
- PROPERTY LINE
- PROJECT SITE SECURITY FENCE
- SETBACK
- (E) OH LINES
- MV CABLE
- OAK TREE TO REMAIN
- EXISTING TREES TO BE REMOVED

**SYSTEM SPECIFICATIONS**

SOSCOL FERRY ROAD	
	TOTAL
SYSTEM SIZE DC	2,808.96 kW
SYSTEM SIZE AC	1,980.00 kW*
DC/AC RATIO	1.42
MODULE MANUFACTURER	TRINA SOLAR
MODULE MODEL	TSM-DE14H(I)
MODULE RATING	380 W
TOTAL MODULE QTY	7,392
MODULES PER STRING	28
TOTAL NO. OF STRINGS	264
INVERTER MODEL	SUNGROW SG125HV
INVERTER RATING	125 kW
INVERTER QTY	16
STEP-UP TRANSFORMER	12KV/600V, 2000KVA
RACKING	ATI HSAT
INTER-ROW SPACING	13.3'
PITCH	19.9'
GCR	33%
SITE AREA INSIDE FENCE	13.84 Ac

\* PLANT NAMEPLATE LIMITED TO 1980 kW AC AND IS CONFIGURED IN FACTORY BY INVERTER MANUFACTURER.

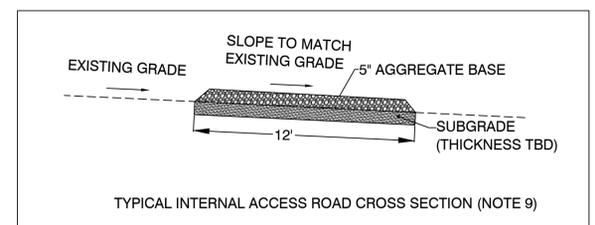
- GENERAL NOTES**
- INSTALLATION TO COMPLY WITH NEC 2014 ARTICLE 690 AND ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES OR REGULATIONS.
  - EQUIPMENT SHALL BE LABELED PER NEC 690 AND UTILITY REGULATIONS.
  - 12' ACCESS ROADS SHALL BE DESIGNED TO ACCOMMODATE ALL CONSTRUCTION, OPERATIONS, MAINTENANCE, AND UTILITY TRAFFIC THROUGHOUT THE SITE.
  - DIMENSIONS TO PROPERTY LINES AND EXISTING FEATURES ARE APPROXIMATE PENDING SURVEY.
  - LANDSCAPING WILL BE COMPLIANT TO THE BIOLOGICAL CONSTRAINTS ANALYSIS FOR LANDSCAPING AND WATER EFFICIENT LANDSCAPE ORDINANCE.
  - ALL TOPOGRAPHY, ELEVATION INFORMATION, DRAINAGE PATTERNS AND COURSES ARE SUBJECT TO THE OUTCOME OF DRAINAGE CALCULATIONS AND STORM WATER DRAINAGE REPORT (NOT YET PERFORMED).
  - A 15.5' ACCESS CORRIDOR WILL BE PROVIDED WHICH WILL CONSIST OF 12' GRAVEL ROAD WITH 3' CLEARANCE BETWEEN ROAD AND FENCE.
  - THE CROSS SECTION OF THE PROPOSED 12 FT WIDE ROAD WILL MATCH THE EXISTING GRADE, WHICH SLOPES TOWARD THE PERIMETER FENCE. ROAD CROSS SECTIONS WILL BE DESIGNED TO DRAIN TOWARDS THE FENCE. FINAL CIVIL DESIGN WILL SPECIFY THE PROPOSED GRADES.

**SYSTEM SPECIFICATIONS**

SOSCOL FERRY SOLAR	
SYSTEM SIZE DC	2808.96 kW
SYSTEM SIZE AC	1,980.00 kW
TOTAL ACREAGE	22.84 Ac

**PROJECT SETBACKS**

SOSCOL FERRY SOLAR	
FRONT	20'
REAR	20'
SIDE	20'
SOSCOL CREEK	150'



**ENGINEER:**  
CALIFORNIA  
ENGINEERING CO.  
**OWNER OF RECORD:**  
KIMBAL GRIGGS GILES &  
THERESE BLODGETT-GILES  
**PROJECT APPLICANT:**  
RP NAPA SOLAR 2, LLC

**SOSCOL FERRY SOLAR**

SOSCOL FERRY RD,  
NAPA, CA 94559, USA  
  
LAT: 38.237851°  
LON: -122.275392°

REV. NO.	DESCRIPTION	DATE
0	FOR UTILITY APPLICATION	09/17/19

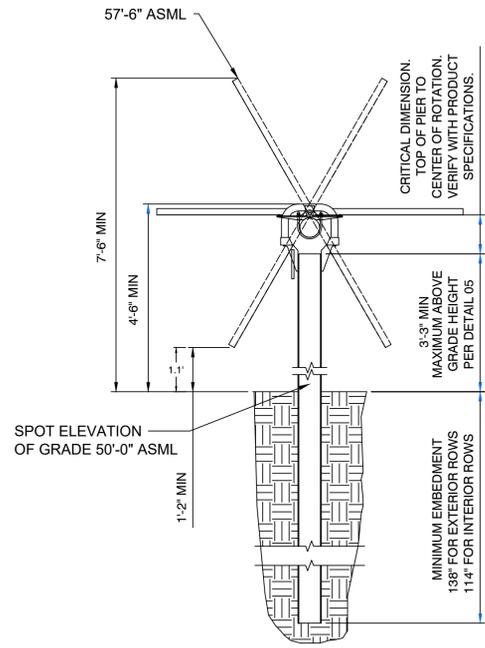
SHEET TITLE:  
**SOLAR PV ARRAY LAYOUT**

DRAWING NO.:  
**PV-100**

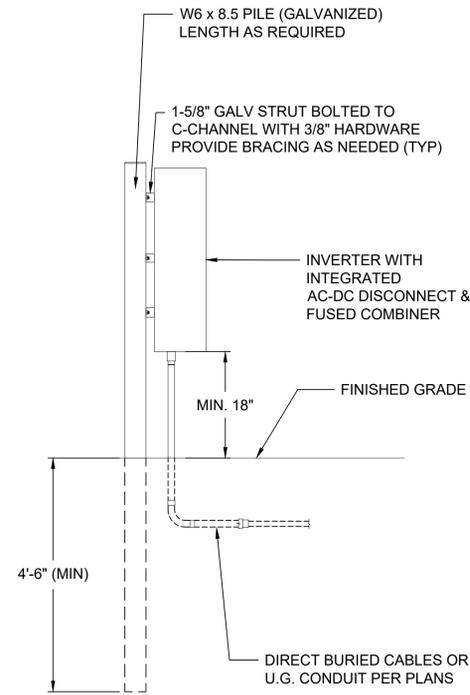
DRAWN BY:  
LR  
REVIEWED BY:  
DATE:  
09/17/19  
SCALE:  
AS SHOWN  
PROJECT NO.:



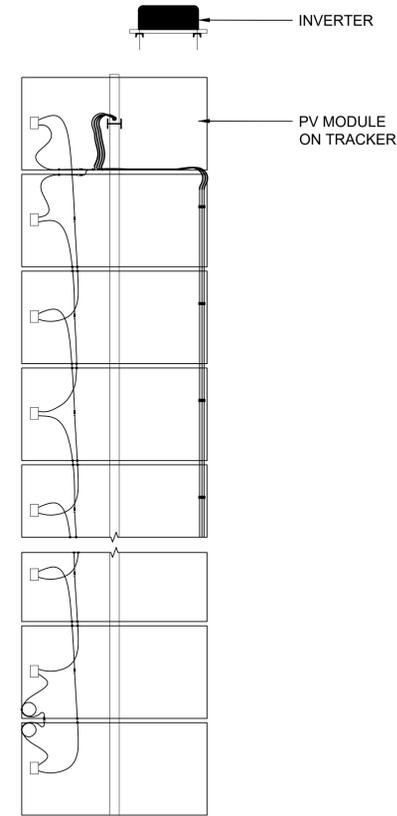
**3 ROAD CROSS SECTION**  
SCALE: NTS



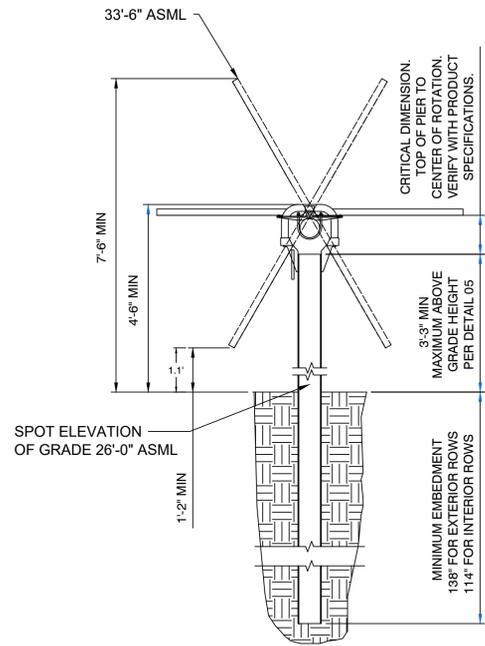
1 RACKING ELEVATION HIGHEST POINT  
SCALE:NTS



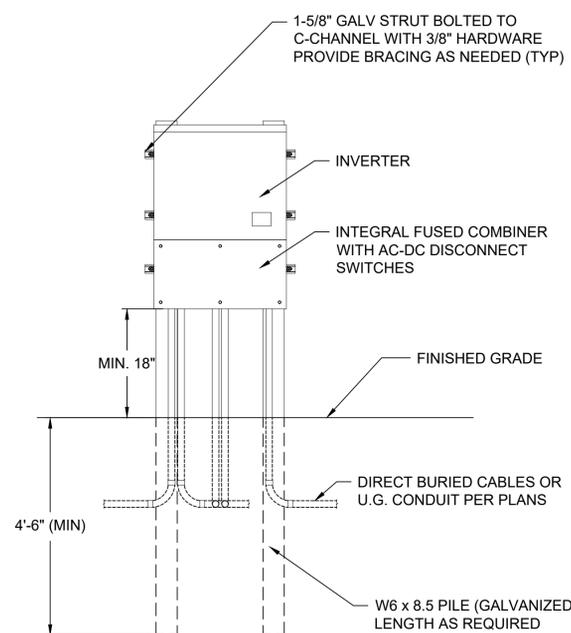
3 INVERTER SIDE ELEVATION  
SCALE:NTS



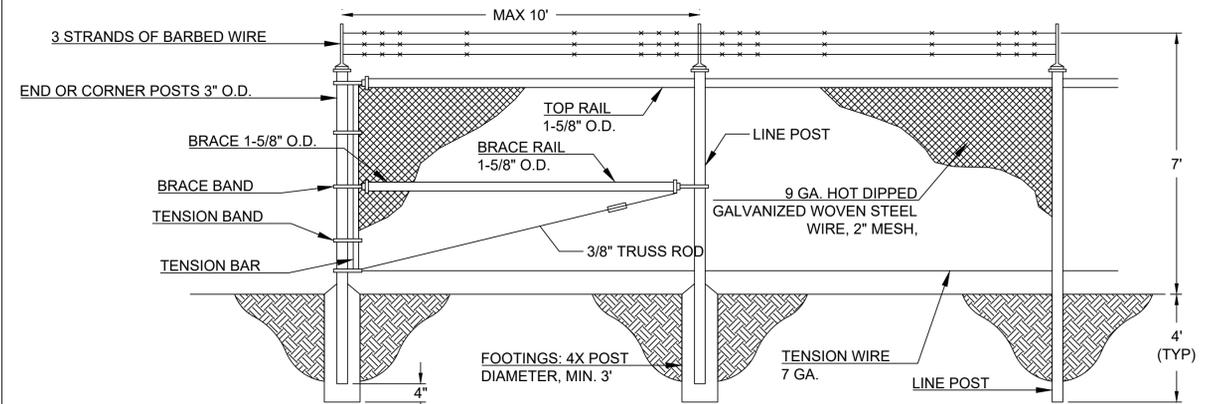
5 INVERTER LAYOUT  
SCALE:NTS



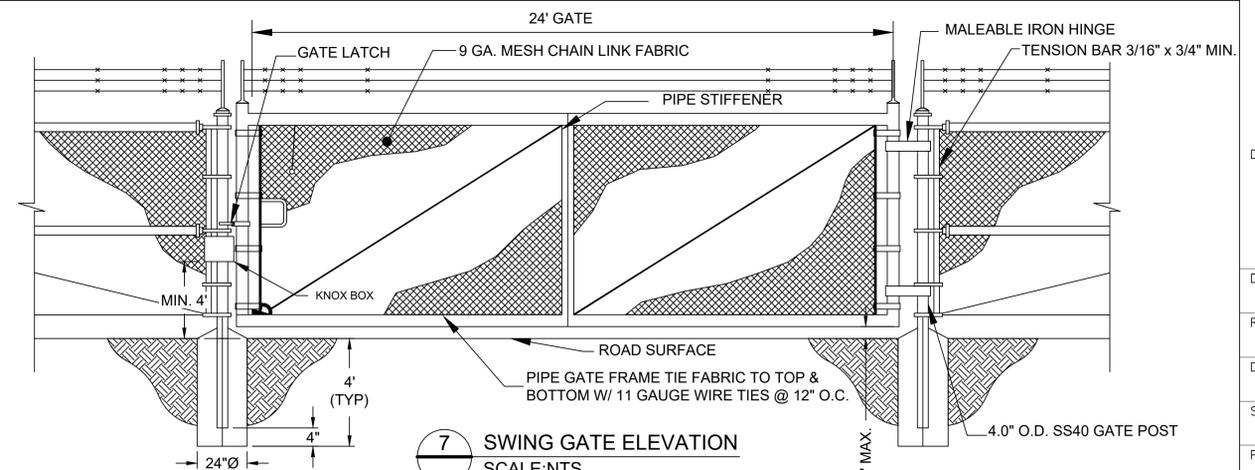
2 RACKING ELEVATION LOWEST POINT  
SCALE:NTS



4 INVERTER FRONT ELEVATION  
SCALE:NTS



6 FENCE ELEVATION  
SCALE:NTS



7 SWING GATE ELEVATION  
SCALE:NTS



ENGINEER:  
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OWNER OF RECORD:  
KIMBAL GRIGGS GILES &  
THERESE BLODGETT-GILES  
PROJECT APPLICANT:  
RP NAPA SOLAR 2, LLC

SOSCOL FERRY  
SOLAR

SOSCOL FERRY RD,  
NAPA, CA 94559, USA

LAT: 38.237851°  
LON: -122.275392°

REV. NO.	DESCRIPTION	DATE
0	FOR UTILITY APPLICATION	09/17/19

SHEET TITLE:

ELEVATION  
DETAILS

DRAWING NO.:

PV-101

DRAWN BY:

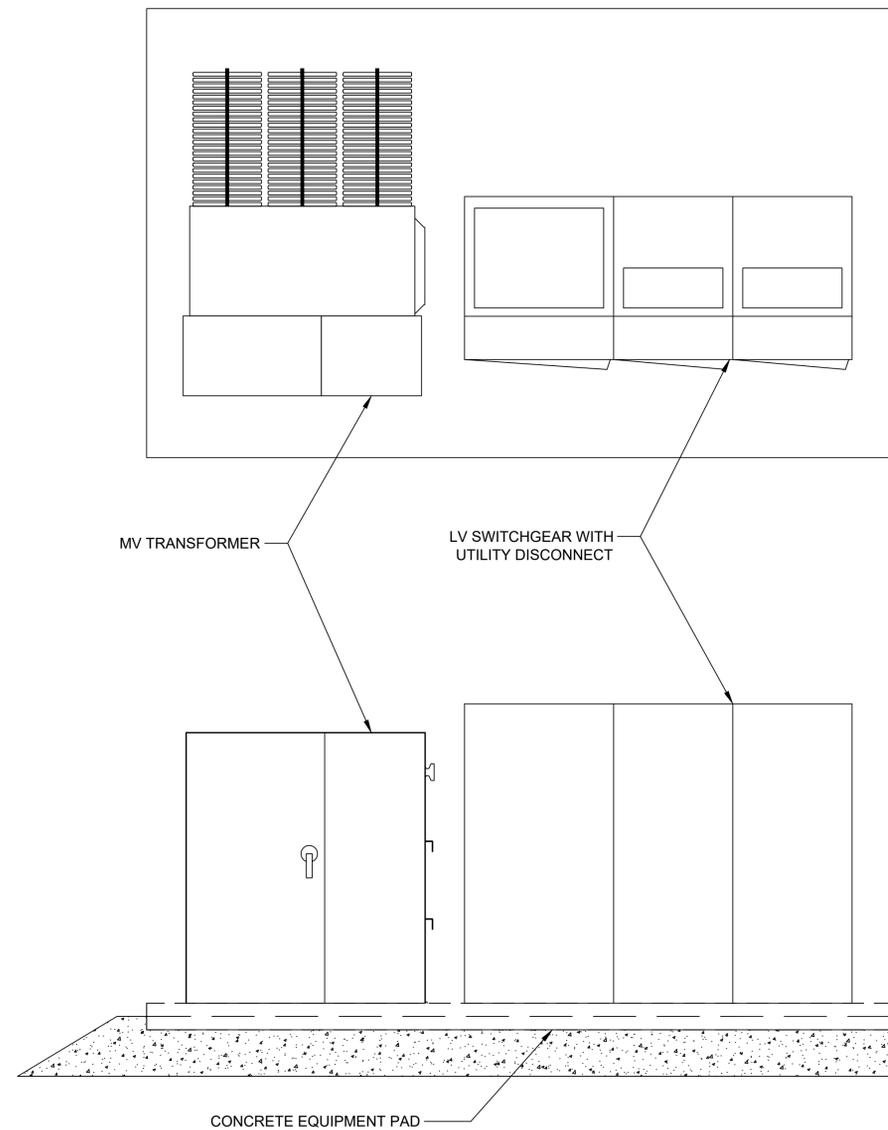
LR

REVIEWED BY:

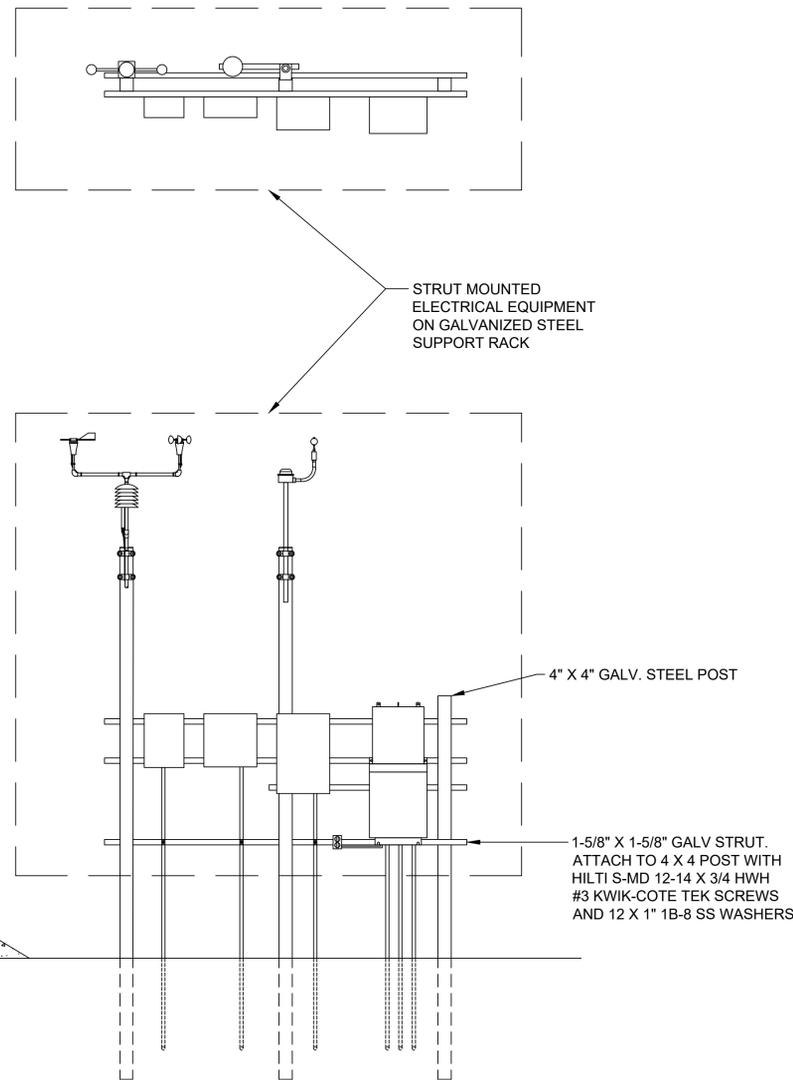
DATE: 09/17/19

SCALE: AS SHOWN

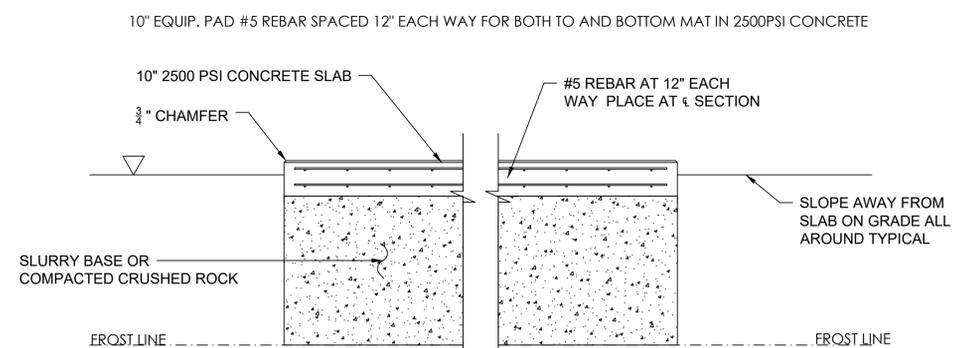
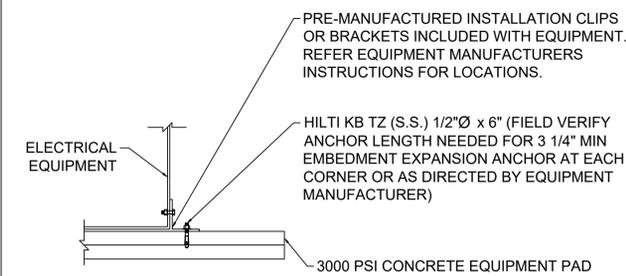
PROJECT NO.:



**1** POWER STATION AND EQUIPMENT RACK ELEVATION  
SCALE:NTS



**2** CONCRETE ANCHOR DETAIL  
SCALE:NTS



**3** CONCRETE EQUIPMENT PAD DETAIL  
SCALE:NTS

**CONCRETE NOTES**

- DESIGN OF STRUCTURAL CONCRETE SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE AMERICAN CONCRETE INSTITUTE (ACI) - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE," ACI 318. ALL CONCRETE FRAMEWORK SHALL CONFORM TO ACI 347.
- CONCRETE MIX PORTIONS, INCLUDING DOCUMENTATION OF MATERIALS, ADMIXTURE PRODUCT INFORMATION, AND COMPRESSIVE STRENGTH OF MIX.
- MINIMUM CONCRETE STRENGTH CLASSES FOR VARIOUS STRUCTURES SHALL BE AS FOLLOWS:

ITEM	MINIMUM ULTIMATE COMPRESSIVE STRENGTH (psi) (AT 28 DAYS)
ELECTRICAL DUCTBANKS UNDER ROADWAY CROSSINGS	3,000*
MAJOR EQUIPMENT / STRUCTURES WHERE REQUIRED AND ALL OTHER CONSTRUCTION	3,000*

\*MINIMUM VALUES UNLESS SPECIFICALLY NOTED OTHERWISE IN DESIGN

- REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. WELDED FABRIC SHALL CONFORM TO ASTM A185. PLAIN WIRE SHALL CONFORM TO ASTM A82. PLACEMENT SHALL BE IN ACCORDANCE WITH CHAPTERS 7 AND 12 OF ACI 318 AND THE MANUAL OF STANDARD PRACTICE OF THE CONCRETE REINFORCING STEEL INSTITUTE.
- CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150, TYPE I OR TYPE II OR AS SUGGESTED BY THE GEOTECHNICAL REPORT.
- AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33 OR AS SUGGESTED BY THE GEOTECHNICAL REPORT.



ENGINEER:  
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THERESE BLODGETT-GILES  
PROJECT APPLICANT:  
RP NAPA SOLAR 2, LLC

**SOSCOL FERRY SOLAR**

SOSCOL FERRY RD,  
NAPA, CA 94559, USA

LAT: 38.237851°  
LON: -122.275392°

REV. NO.	DESCRIPTION	DATE
0	FOR UTILITY APPLICATION	09/17/19

SHEET TITLE:

**POWER STATION ELEVATION DETAILS**

DRAWING NO.:

**PV-102**

DRAWN BY:

LR

REVIEWED BY:

DATE:

09/17/19

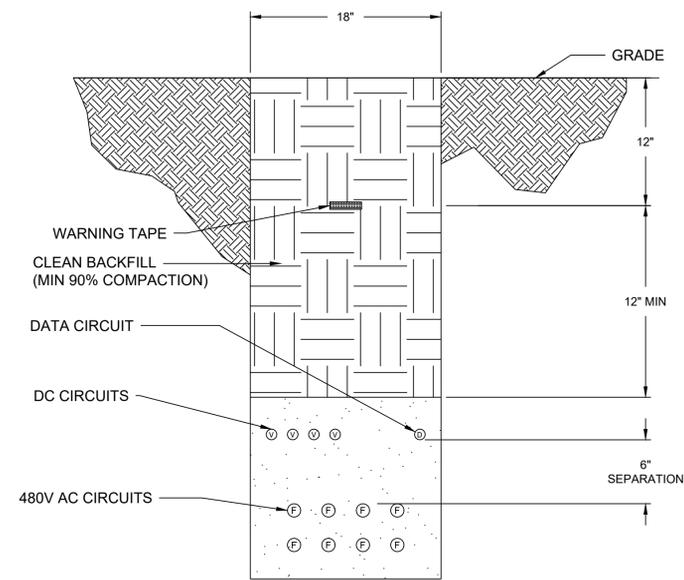
SCALE:

AS SHOWN

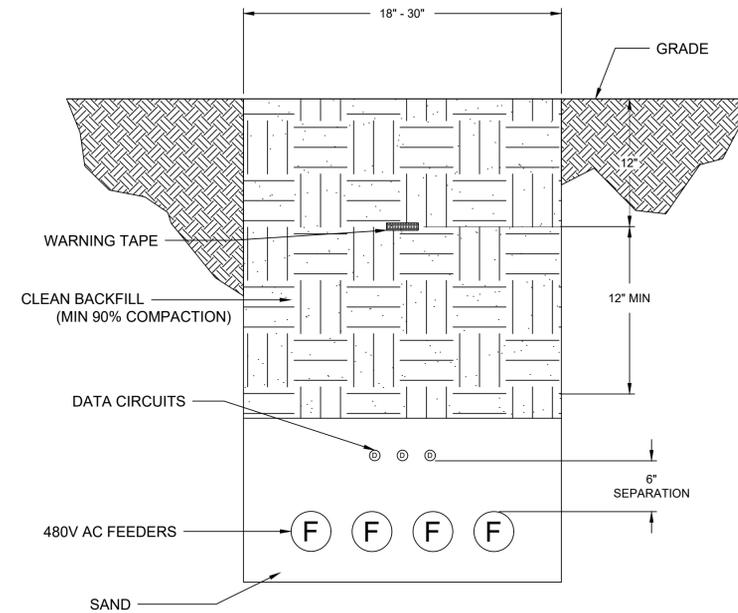
PROJECT NO.:

**TRENCH NOTES**

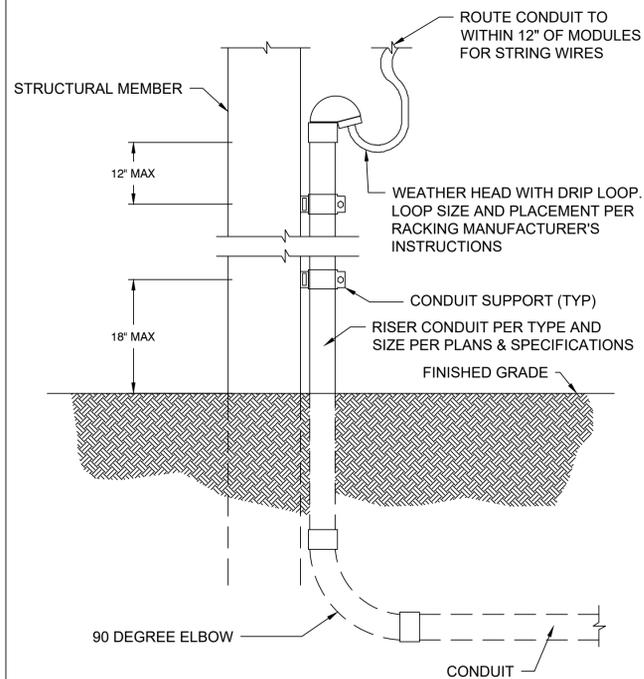
1. PROVIDE 3" CLEARANCE FROM SIDES AND BOTTOM OF TRENCH TO ANY CONDUIT OR CABLE.
2. PLACE 6" MINIMUM SAND COVER OVER CONDUIT AND CABLES. PLACE 3" MINIMUM SAND ON BOTTOM AND SIDES OF CABLES.
3. WITH CONDUIT AND CABLES IN PLACE, COMPACT TO 90% USING NO MECHANICAL EQUIPMENT. COMPACT 12" OF TRENCH TO 95% IN PAVEMENT AREAS.
4. USE NATIVE SOIL BACKFILL, LOWER 10-12" IS SAND
5. MAINTAIN MIN 36" CLEARANCE WHEN PARALLELING STRUCTURAL SUPPORTS. IN NO CASE SHALL CLEARANCE BE LESS THAN 5 TIMES DIAMETER OF DRIVEN PILES.
6. SURFACE ACTIVITIES AND LOADING OVER BURIED CABLES SHALL NOT EXCEED RATED CRUSH CAPACITY OF CABLES OR CONDUITS.
7. MAINTAIN MINIMUM 4" VERTICAL CLEARANCE WHERE DC CIRCUITS CROSS OR PARALLEL DC & AC CIRCUITS FROM OTHER LOW VOLTAGE SYSTEMS.
8. MAINTAIN MINIMUM 12" CLEARANCE BETWEEN ALL UNDERGROUND UTILITIES AND MEDIUM VOLTAGE CIRCUITS. VERIFY EXACT REQUIREMENTS WITH UTILITY BEFORE STARTING UNDERGROUND INSTALLATION.
9. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (DIAL 811) TWO FULL BUSINESS DAYS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES, INCLUDING PAVEMENT REMOVAL, EXCAVATION AND AC OVERLAY, WHICH COULD AFFECT ANY UNDERGROUND UTILITY.
10. MAINTAIN MINIMUM 6" OF SEPARATION BETWEEN DIFFERENT VOLTAGE CLASSES & MIN 3" SEPARATION BETWEEN CONDUITS, GROUND RODS AND UNDERGROUND OBSTRUCTIONS.



**1** AC FEEDER TRENCH WITH DC SOURCE CIRCUIT & DATA  
SCALE:NTS

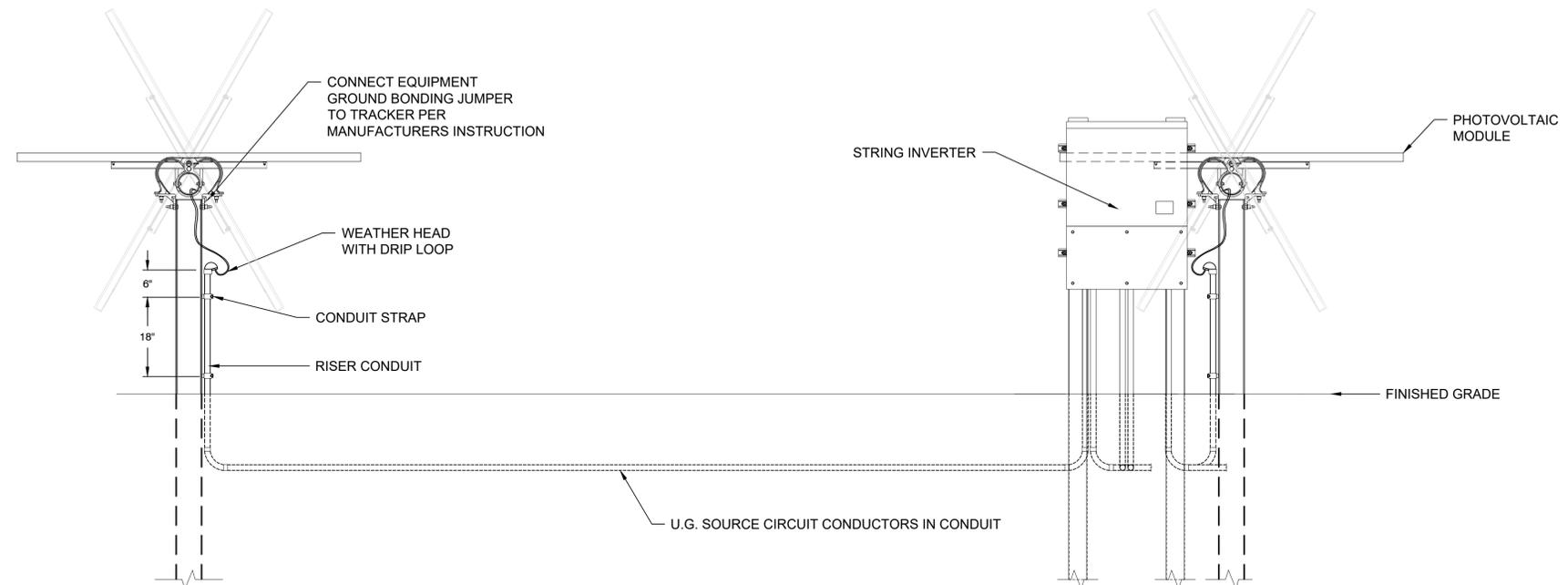


**2** AC FEEDER TRENCH  
SCALE:NTS



- NOTES:
1. DIMENSION BETWEEN RISER CONDUIT AND RACKING STRUCTURAL MEMBER TBD BY CONTRACTOR IN FIELD. USE CODE APPROVED MEANS AND METHODS.
  2. USE APPROVED CONDUIT FOR EXPOSED AREA PER NEC 352-10 (f) & NEC 352-12 (c).

**4** RISER CONDUIT DETAIL  
SCALE:NTS



**3** DC SOURCE CIRCUIT (JUMPER) TRENCH DETAIL  
SCALE:NTS



ENGINEER:  
CALIFORNIA  
ENGINEERING CO.  
OWNER OF RECORD:  
KIMBAL GRIGGS GILES &  
THERESE BLODGETT-GILES  
PROJECT APPLICANT:  
RP NAPA SOLAR 2, LLC

**SOSCOL FERRY SOLAR**

SOSCOL FERRY RD,  
NAPA, CA 94559, USA

LAT: 38.237851°  
LON: -122.275392°

REV. NO.	DESCRIPTION	DATE
0	FOR UTILITY APPLICATION	09/17/19

SHEET TITLE:

**TRENCH DETAILS**

DRAWING NO.:

**PV-103**

DRAWN BY:

LR

REVIEWED BY:

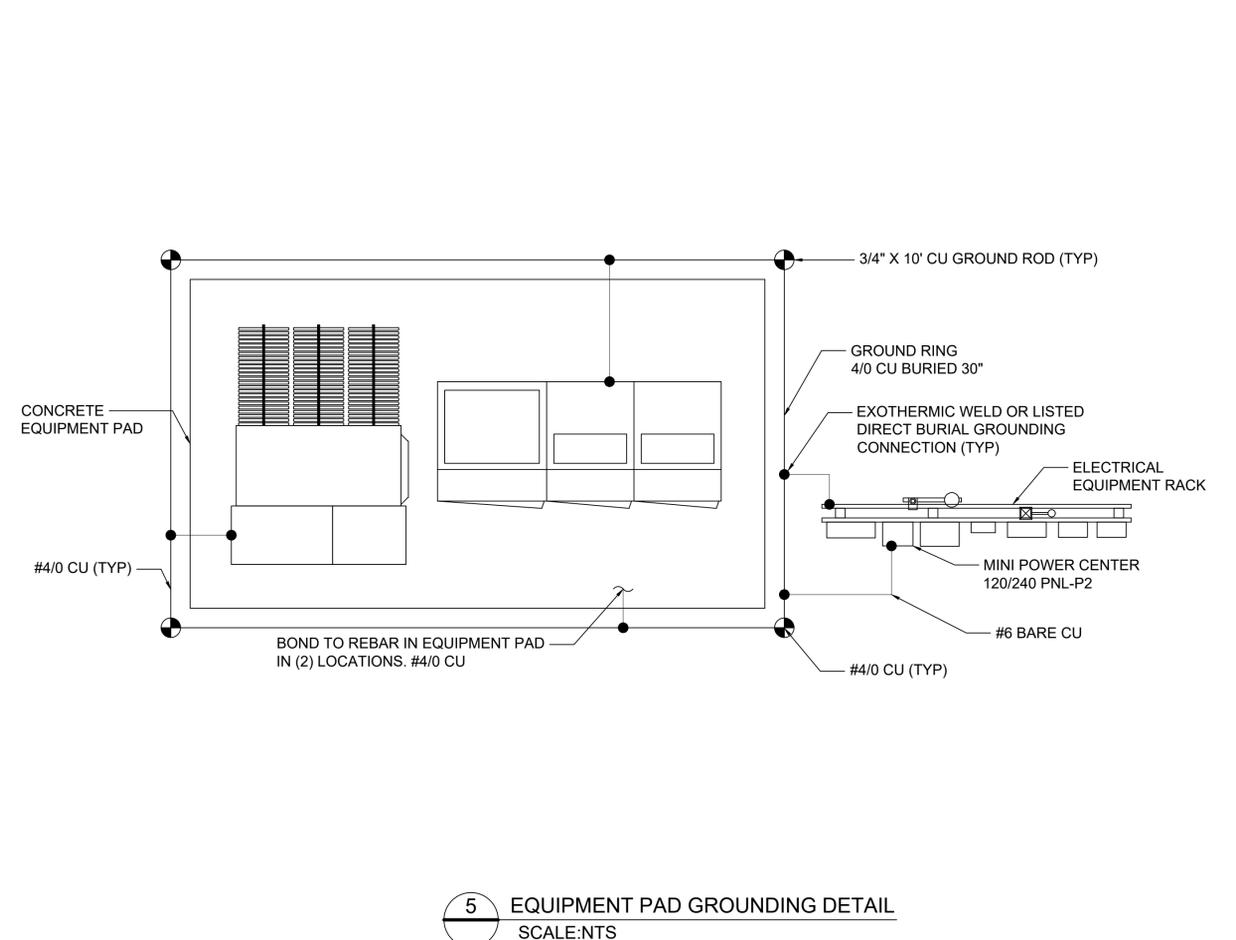
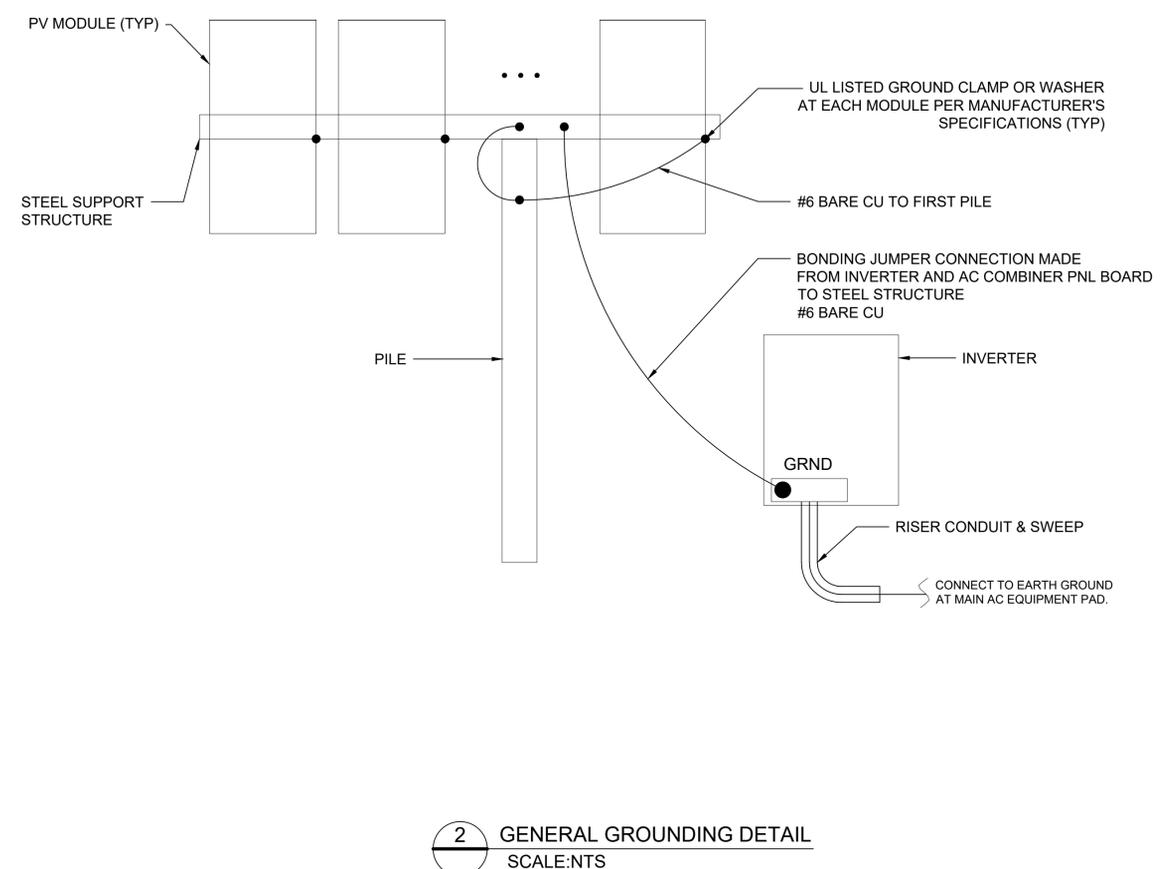
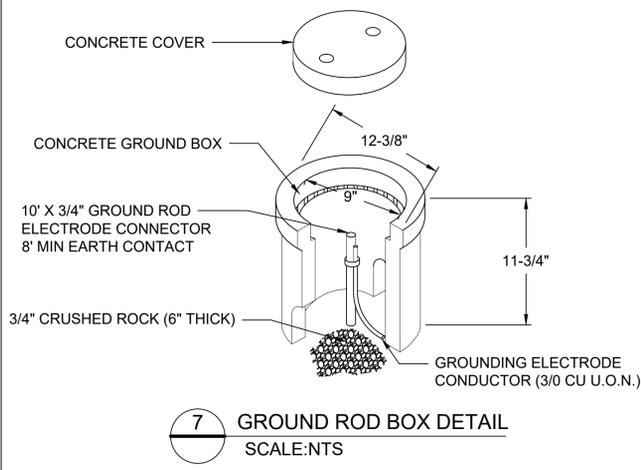
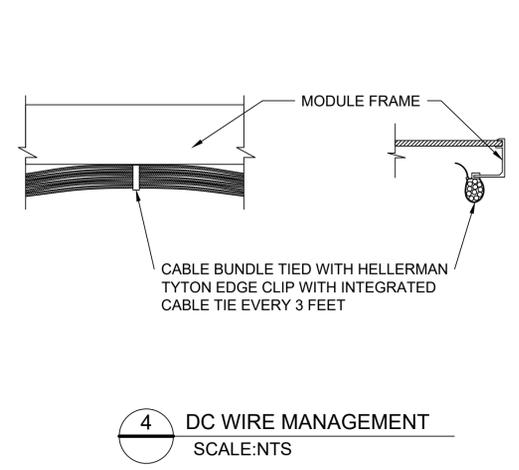
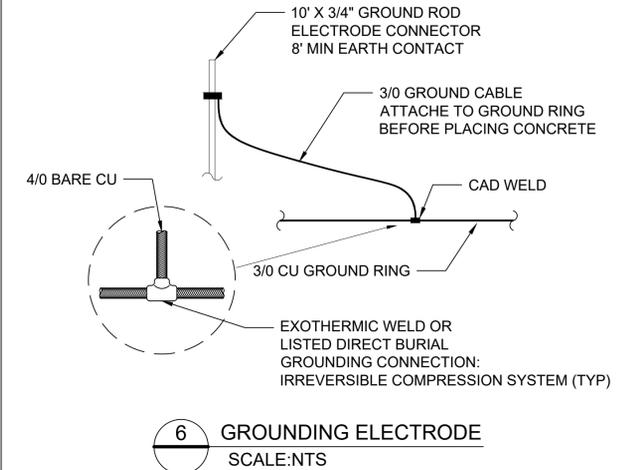
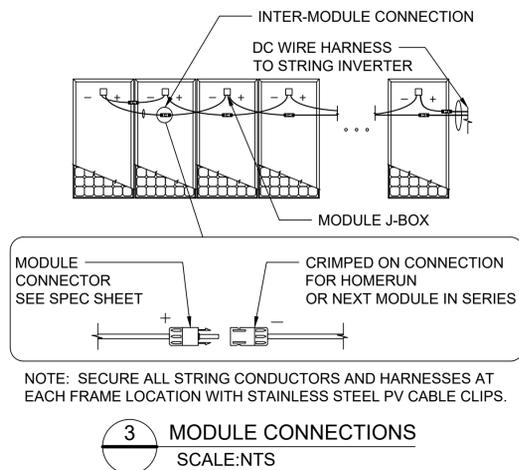
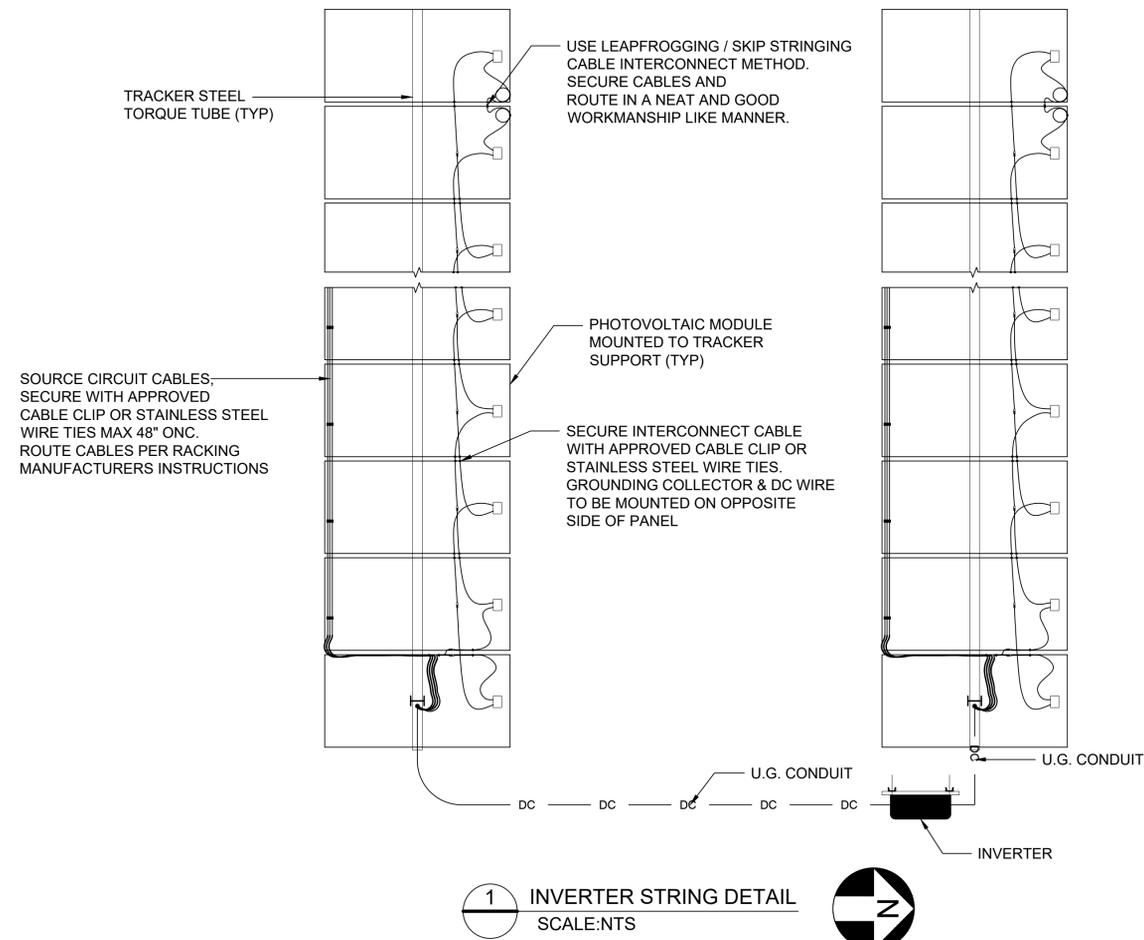
DATE:

09/17/19

SCALE:

AS SHOWN

PROJECT NO.:



ENGINEER:  
CALIFORNIA  
ENGINEERING CO.  
OWNER OF RECORD:  
KIMBAL GRIGGS GILES &  
THERESE BLODGETT-GILES  
PROJECT APPLICANT:  
RP NAPA SOLAR 2, LLC

**SOSCOL FERRY SOLAR**

SOSCOL FERRY RD,  
NAPA, CA 94559, USA

LAT: 38.237851°  
LON: -122.275392°

REV. NO.	DESCRIPTION	DATE
0	FOR UTILITY APPLICATION	09/17/19

SHEET TITLE:

**ELECTRICAL DETAILS**

DRAWING NO.:

**PV-104**

DRAWN BY:

LR

REVIEWED BY:

DATE:

09/17/19

SCALE:

AS SHOWN

PROJECT NO.:



(E) GRAVEL ACCESS ROAD TO REMAIN

EXISTING CONDITIONS	
ITEM	VALUE
PROJECT AREA, FENCED (SQFT)	680,622
PROJECT AREA, FENCED (ACRES)	15.62
PROPOSED GRAVEL ROAD OUTSIDE OF FENCED AREA (SQFT)	1,982
TOTAL PROJECT AREA (SQFT)	682,604
TOTAL PRE-PROJECT IMPERVIOUS (SQFT)	0
GENERAL TERRAIN SLOPE	WEST
SLOPE %	~1.5%

GENERAL NOTES	
1. ELEVATION DATA SOURCE:	
1.1.	TITLE: NATIONAL ELEVATION DATA 3 METER OR BETTER
1.2.	ORIGINATOR: USDS / NRCS NATIONAL GEOSPATIAL CENTER OF EXCELLENCE



**SOSCOL FERRY SOLAR**

1605 SOSCOL FERRY RD.  
NAPA, CA 94559

LAT: 38.237851°  
LON: -122.275392°

REV. NO.	DESCRIPTION	DATE
0	USE PERMIT APPLICATION	09/13/19

SHEET TITLE:

DRAINAGE PLAN

EXISTING

DRAWING NO.:

C-100

DRAWN BY:

CA

REVIEWED BY:

DATE:

09/13/19

SCALE:

AS SHOWN

PROJECT NO.:



EXISTING CONDITIONS	
ITEM	VALUE
PROJECT AREA, FENCED (SQFT)	680,622
PROJECT AREA, FENCED (ACRES)	15.62
PROPOSED GRAVEL ROAD OUTSIDE OF FENCED AREA (SQFT)	1,982
TOTAL PROJECT AREA (SQFT)	682,604
TOTAL PRE-PROJECT IMPERVIOUS (SQFT)	0
GENERAL TERRAIN SLOPE	WEST
SLOPE %	~1.5%
TOTAL NEW GRAVEL ROADS (SQFT)	7,620
TOTAL NEW POWER STATIONS (SQFT)	314
TOTAL NEW MODULE ARRAYS (SQFT)	170,595
TOTAL NEW IMPERVIOUS SURFACE (SQFT)	178,529
TOTAL POST-CONSTRUCTION IMPERVIOUS SURFACE (SQFT)	178,529
PERVIOUS SURFACE AREA REDUCTION (SQFT)	26.15%

**GENERAL NOTES**

- ELEVATION DATA SOURCE:
  - TITLE: NATIONAL ELEVATION DATA 3 METER OR BETTER
  - ORIGINATOR: USDS / NRCS NATIONAL GEOSPATIAL CENTER OF EXCELLENCE
- NEW IMPERVIOUS AREAS (DRAINAGE MANAGEMENT AREA, DMA'S) TO DRAIN TO SURROUNDING PERVIOUS AREAS OF NON-NATIVE ANNUAL GRASSLAND AND EXISTING MATURE VEGETATION, WITH MAX RATIO OF 2:1, PERVIOUS TO IMPERVIOUS.
- NO GRADING IN EXCESS OF 50 CY IS ANTICIPATED.



**SOSCOL FERRY SOLAR**

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LAT: 38.237851°  
LON: -122.275392°

REV. NO.	DESCRIPTION	DATE
0	USE PERMIT APPLICATION	09/13/19

SHEET TITLE:

**DRAINAGE AND GRADING PLAN**

PROPOSED

DRAWING NO.:

**C-101**

DRAWN BY:	CA
REVIEWED BY:	
DATE:	09/13/19
SCALE:	AS SHOWN
PROJECT NO.:	