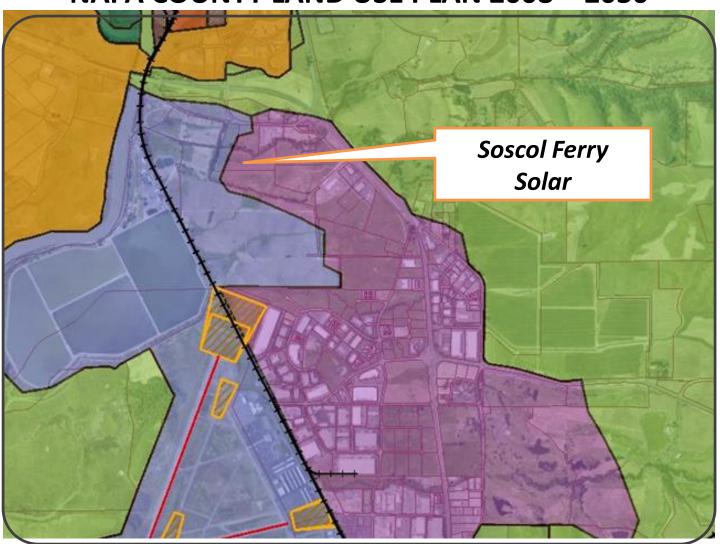


Graphics

NAPA COUNTY LAND USE PLAN 2008 - 2030





LEGEND

APN: 057-210-056

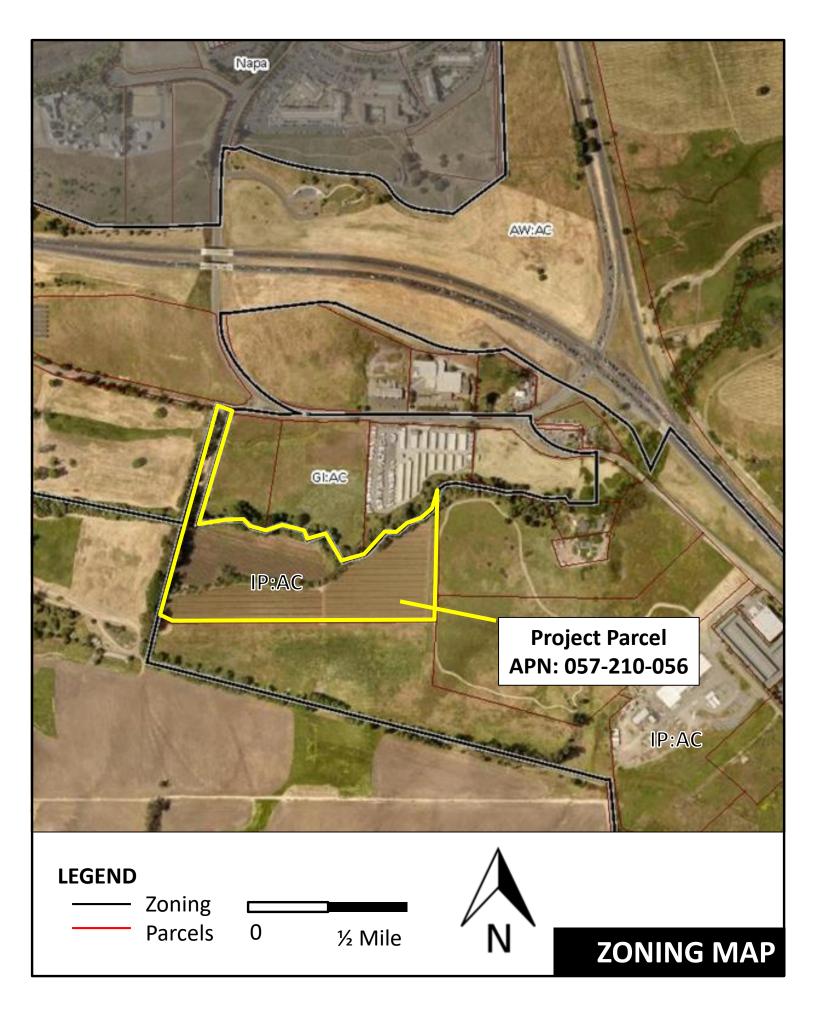


URBANIZED OR NON-AGRICULTURAL Study Area Cities Urban Residential* Rural Residential* Industrial Public-Institutional Napa Pipe Mixed Use OPEN SPACE Agriculture, Watershed & Open Space

TRANSPORTATION Mineral Resource
Limited Access Highway
American Canyon ULL
City of Napa RUL
Landfill - General Plan
Road
Airport
Railroad
Airport Clear Zone

Map Date: 12-18-19

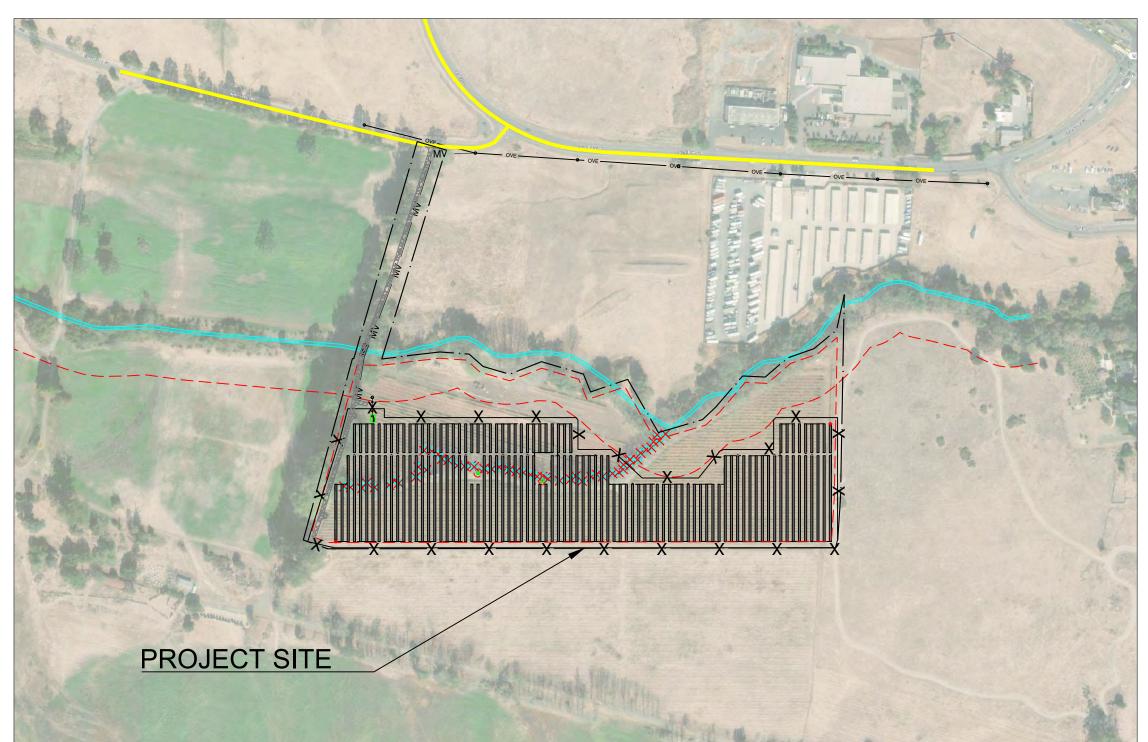
Agricultural Resource



P19-0338-UP APN: 057-210-056 Map Date: 12-18-19

SOSCOL FERRY SOLAR SINGLE AXIS TRACKER PHOTOVOLTAIC SYSTEM SOSCOL FERRY ROAD, NAPA, CA 94559

AERIAL MAP VIEW



GENERAL PROJECT SCOPE OF WORK

DEVELOP NEW SOLAR PHOTOVOLTAIC ELECTRICAL GENERATING FACILITIES ON APPROXIMATELY 14 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: 2,808.96 kW AC RATING: 1,980.00 kW

SOLAR MODULE QTY & MODEL: (7,392) TRINA TSM-DE14H(II), 380W

INVERTER QTY & MODEL: (16) SUNGROW SG125HV, 125KW

INDEX OF DRAWINGS

SHEET#	SHEET TITLE
T-001	COVER SHEET
PV-001	EXISTING SITE CONDITIONS
PV-100	SOLAR PV ARRAY LAYOUT
PV-101	ELEVATION DETAILS
PV-102	POWER STATION ELEVATION DETAILS
PV-103	TRENCH DETAILS
PV-104	ELECTRICAL DETAILS

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°

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

SHEET TITLE:

COVER SHEET

DRAWING NO.:

T-000

DRAWN BY:

REVIEWED BY:

DATE:

09/17/19 SCALE:

AS SHOWN
PROJECT NO.:

OWNER INFORMATION, PROJECT TEAM

OWNER OF RECORD: KIMBAL GRIGGS GILES & THERESE BLODGETT-GILES

PROJECT APPLICANT: RP NAPA SOLAR 2, LLC

PROJECT ENGINEER: CALIFORNIA ENGINEERING CO.

CODES & REGULATIONS

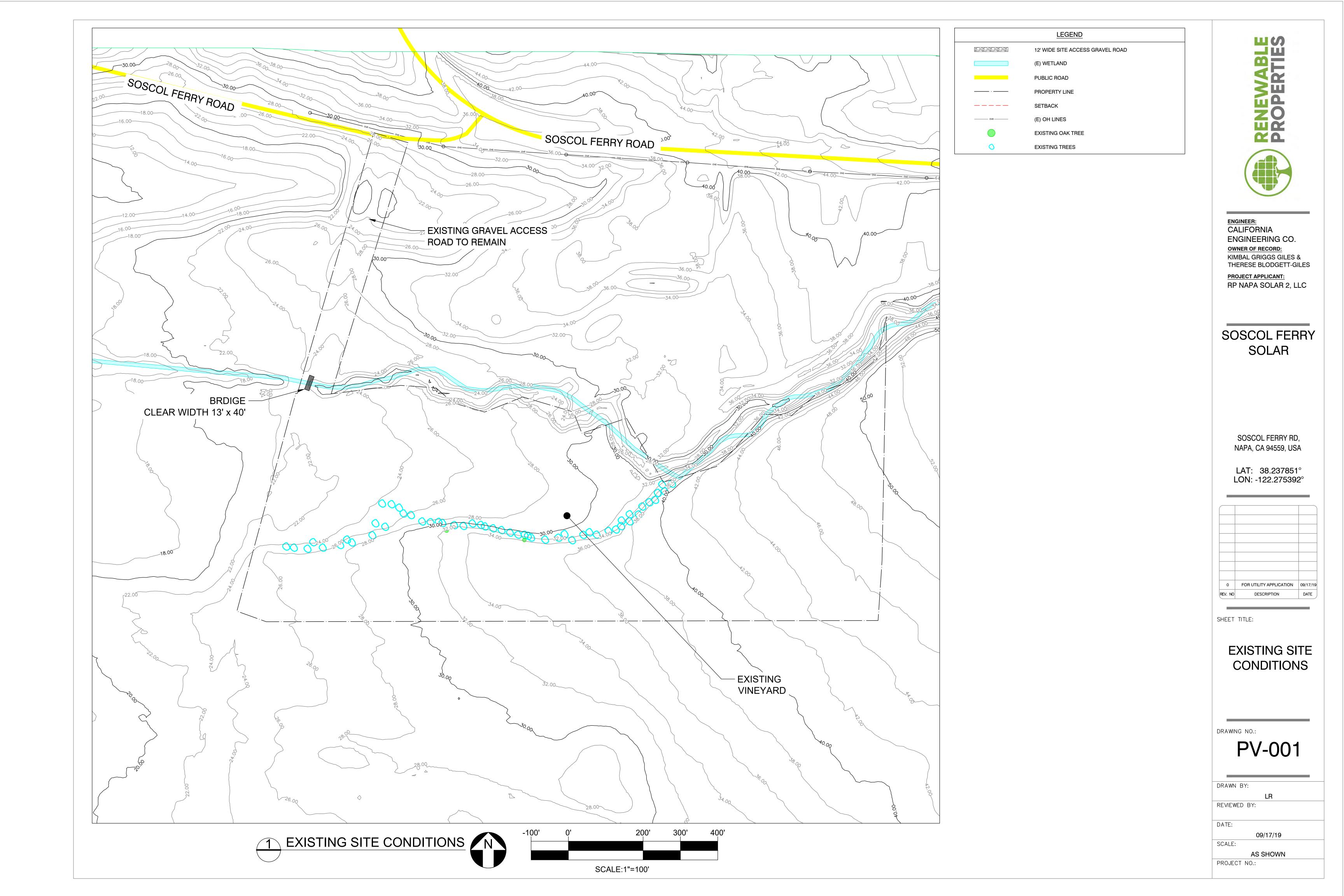
WORK PERFORMED AND MATERIALS FURNISHED SHALL CONFORM TO THE APPLICABLE PUBLICATIONS AND STANDARDS OF THE ORGANIZATIONS LISTED BELOW:

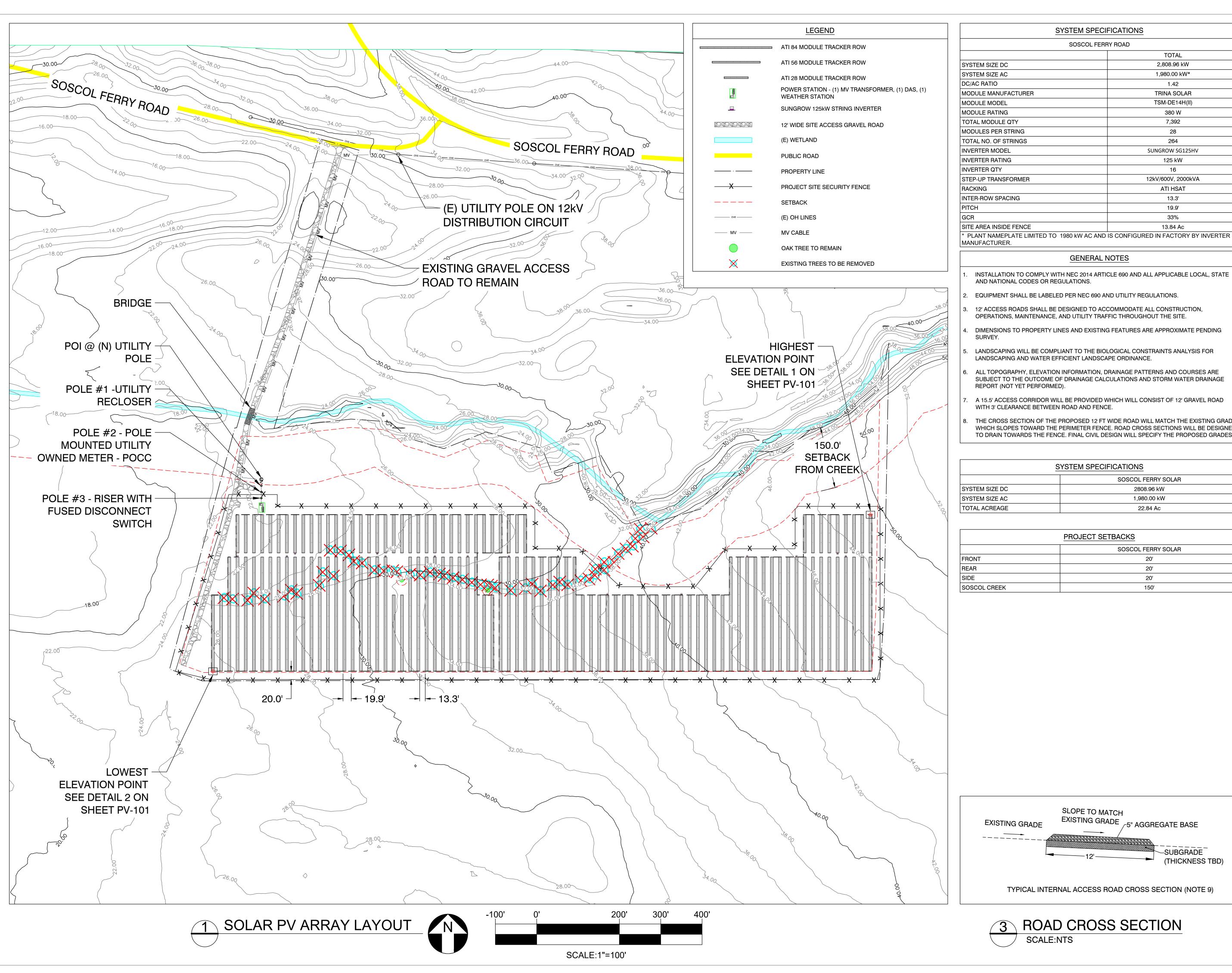
NATIONAL

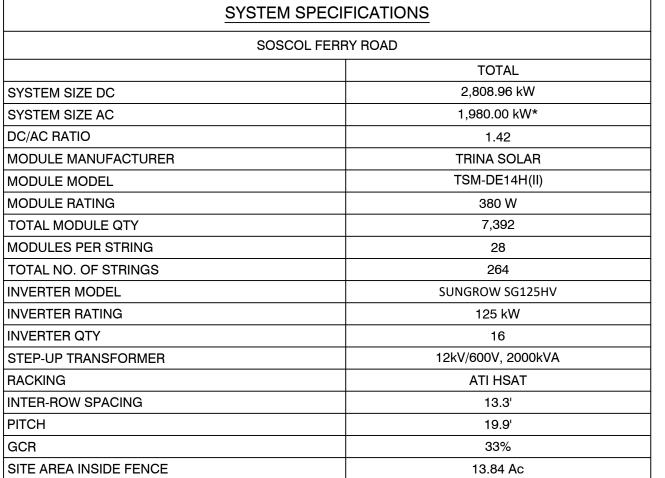
- 2015 INTERNATIONAL BUILDING CODE (IBC)
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
- NATIONAL ELECTRIC CODE, 2017 EDITION
- UNDERWRITERS LABORATORIES INV. (UL)
- US DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEATH ACT (OSHA)

STATE

- 2016 CALIFORNIA BUILDING CODE
- 2016 CALIFORNIA ELECTRICAL CODE
- 2016 CALIFORNIA ENERGY CODE
- 2016 CALIFORNIA FIRE CODE
- RULE 21 GUIDELINES
- CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT (CAL OSHA)







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
- 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
- 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.

<u> </u>	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:

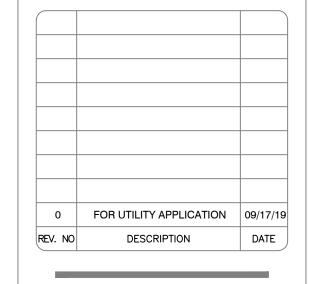
CALIFORNIA ENGINEERING CO. **OWNER OF RECORD:** KIMBAL GRIGGS GILES & THERESE BLODGETT-GILES

PROJECT APPLICANT: RP NAPA SOLAR 2, LLC

SOSCOL FERRY SOLAR

> SOSCOL FERRY RD, NAPA, CA 94559, USA

LAT: 38.237851° LON: -122.275392°



SHEET TITLE:

SOLAR PV ARRAY LAYOUT

DRAWING NO .:

PV-100

DRAWN BY:

REVIEWED BY:

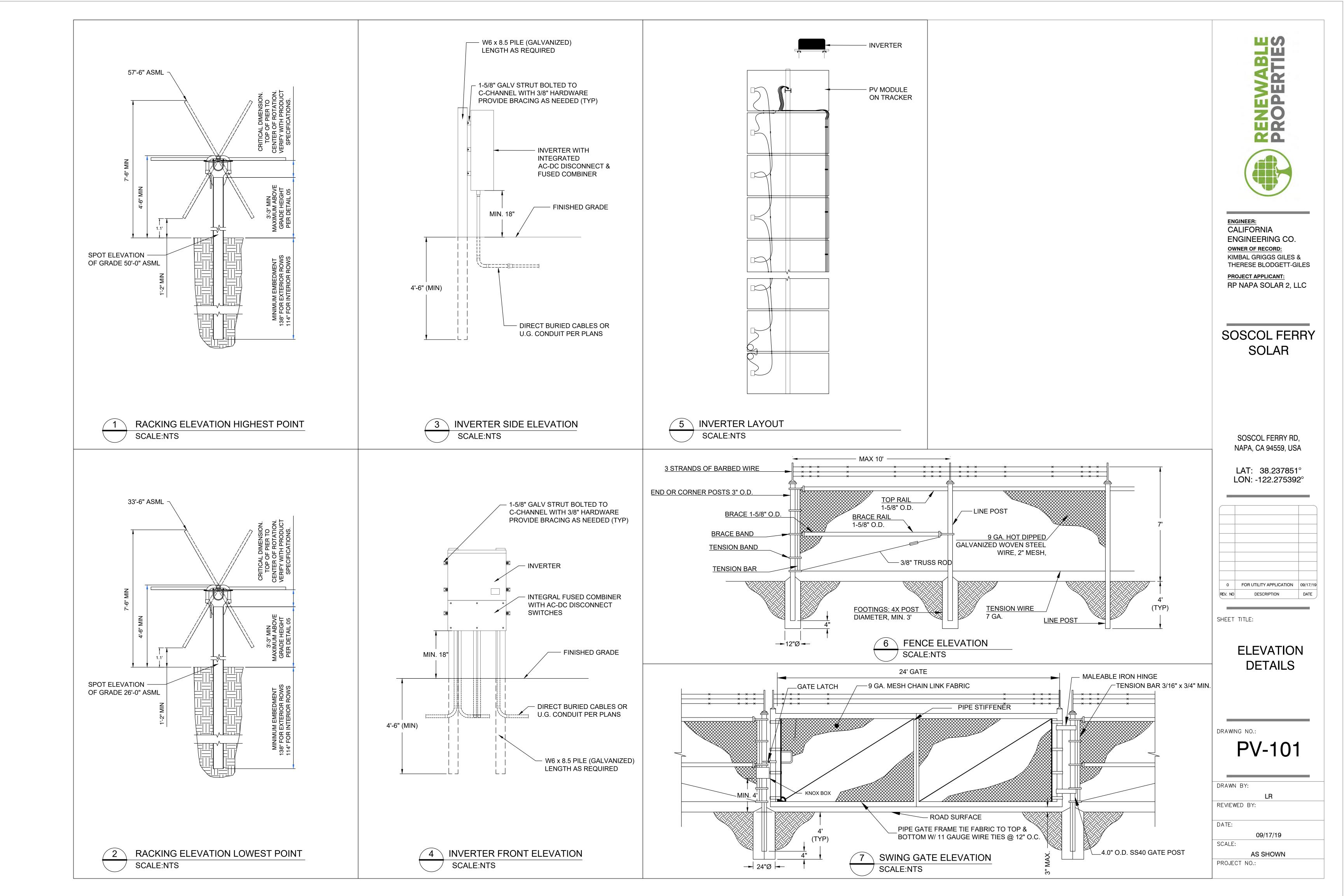
09/17/19

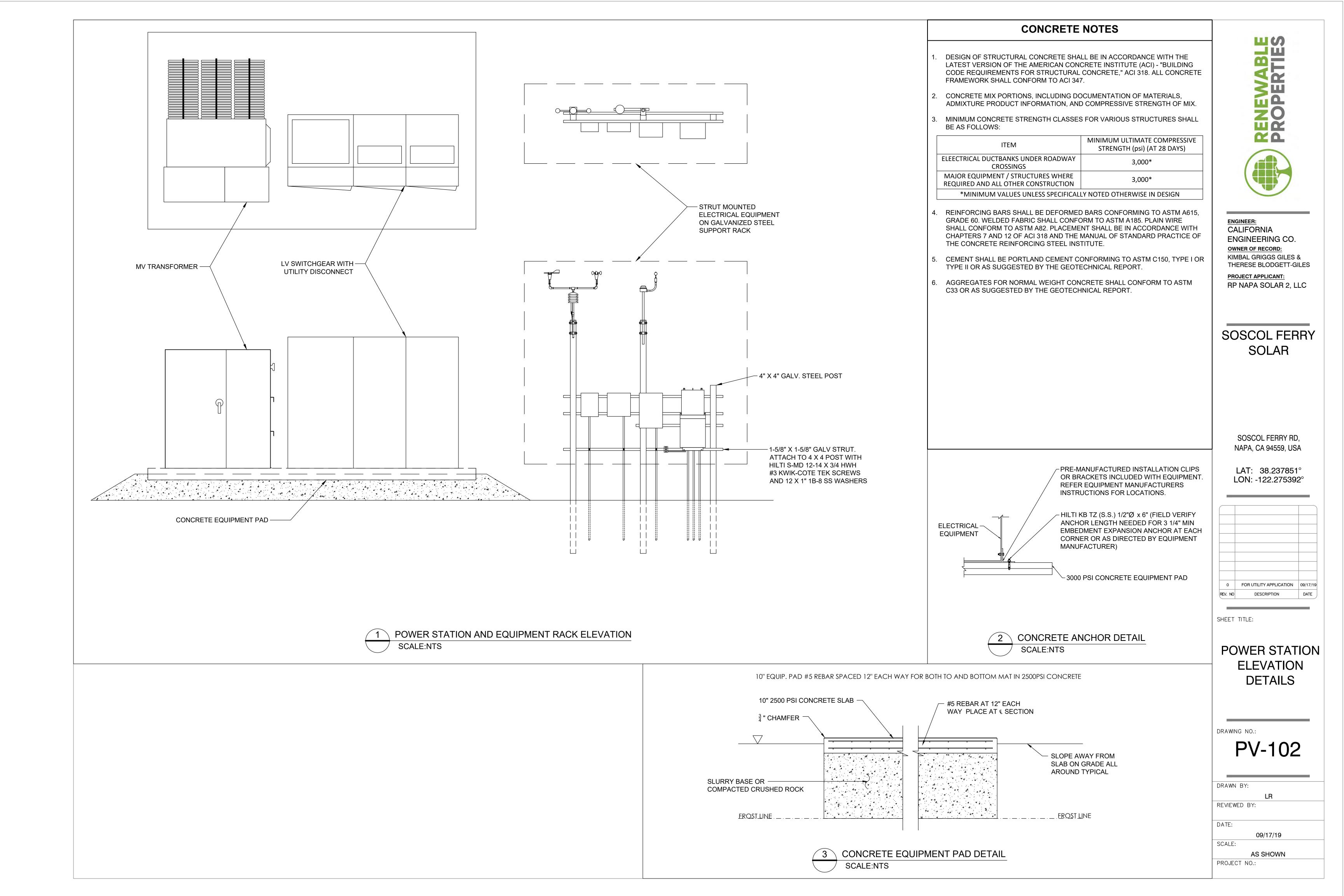
SCALE: AS SHOWN PROJECT NO.:

ROAD CROSS SECTION SCALE:NTS

SLOPE TO MATCH

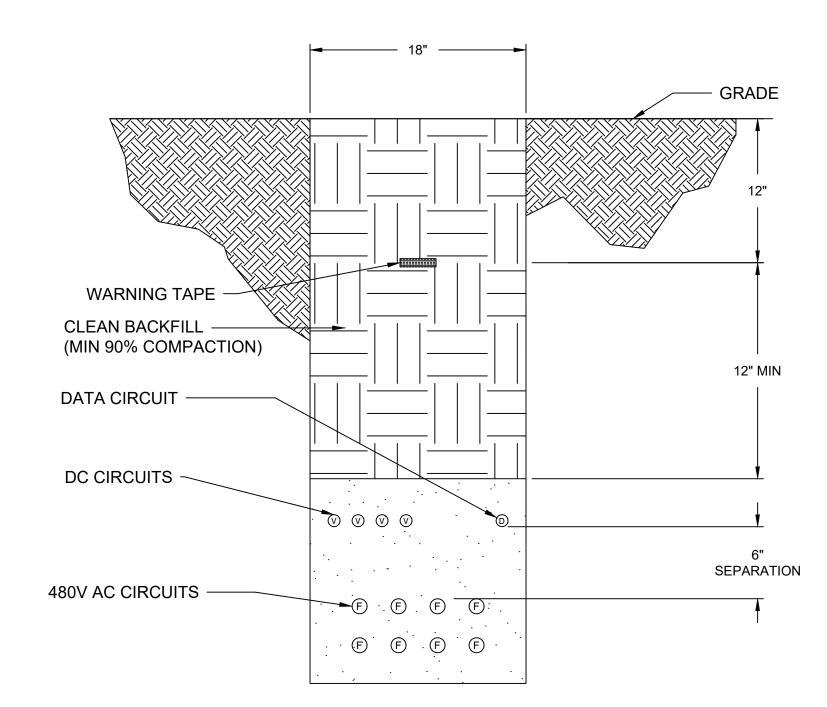
EXISTING GRADE _5" AGGREGATE BASE

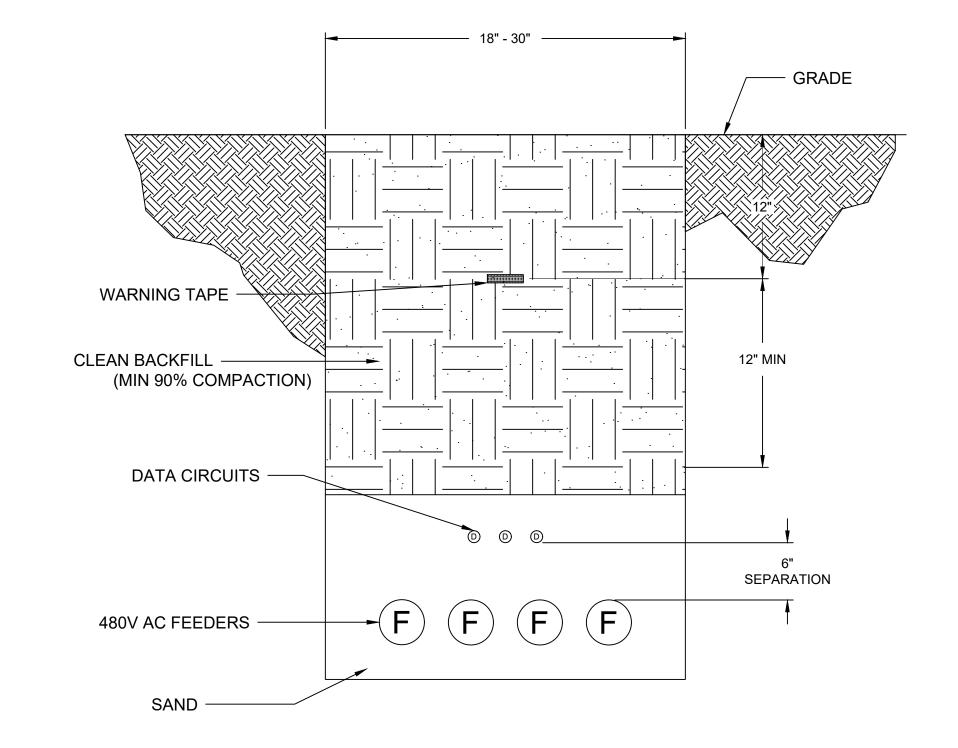




TRENCH NOTES

- 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.







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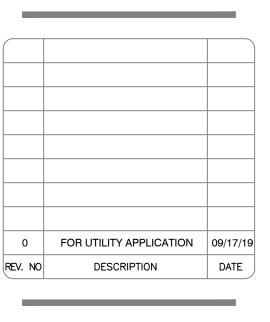
ROPER

20

SOSCOL FERRY SOLAR

> SOSCOL FERRY RD, NAPA, CA 94559, USA

LAT: 38.237851° LON: -122.275392°



SHEET TITLE:

- PHOTOVOLTAIC

MODULE

→ FINISHED GRADE

TRENCH DETAILS

DRAWING NO.:

PV-103

DRAWN BY:

LR

REVIEWED BY:

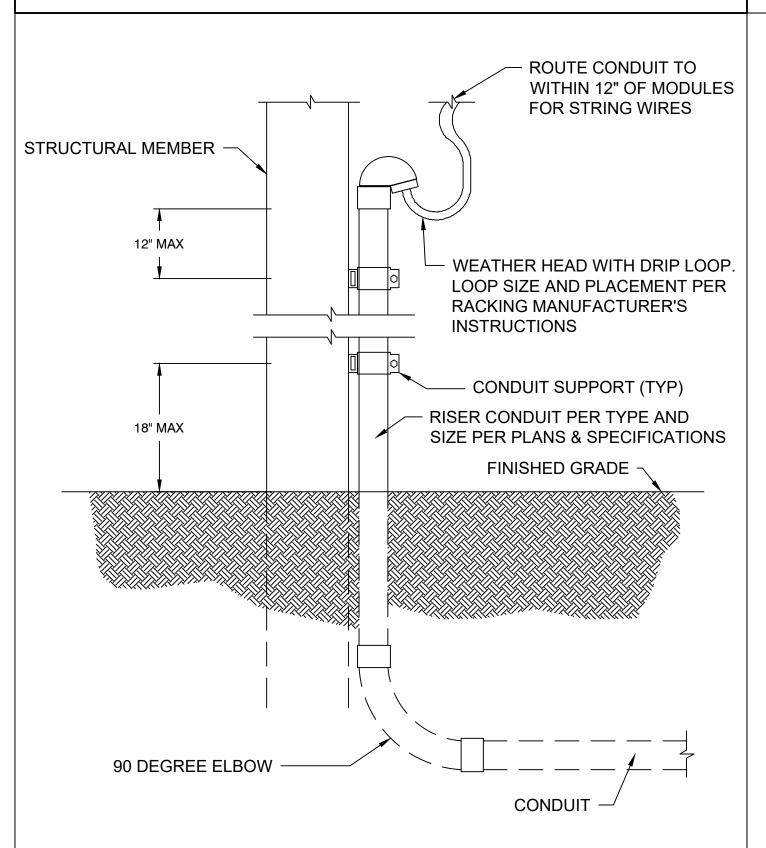
DATE: **09/17/19**

PROJECT NO .:

SCALE:
AS SHOWN

DC SOURCE CIRCUIT (JUMPER) TRENCH DETAIL
SCALE:NTS

U.G. SOURCE CIRCUIT CONDUCTORS IN CONDUIT

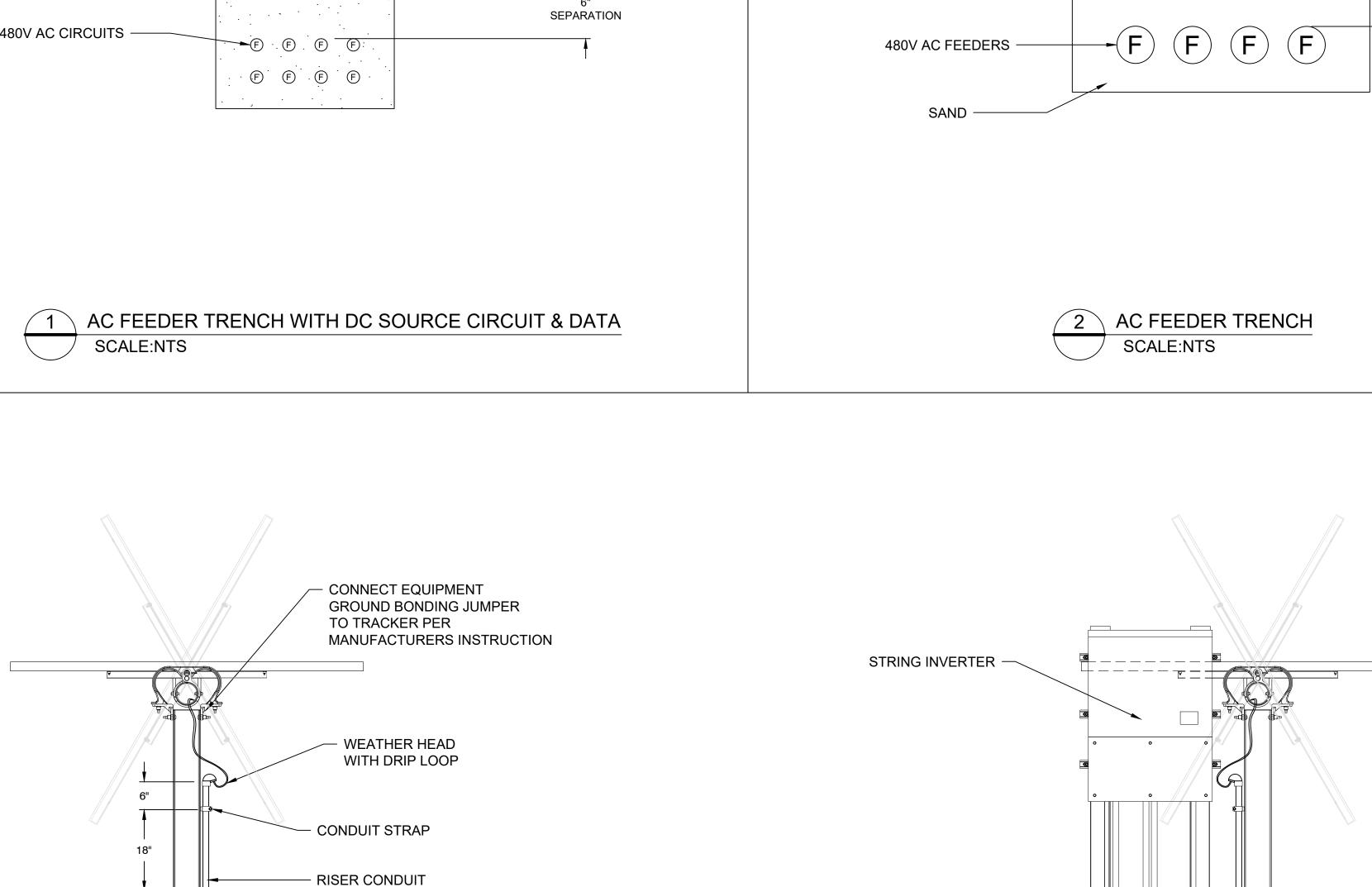


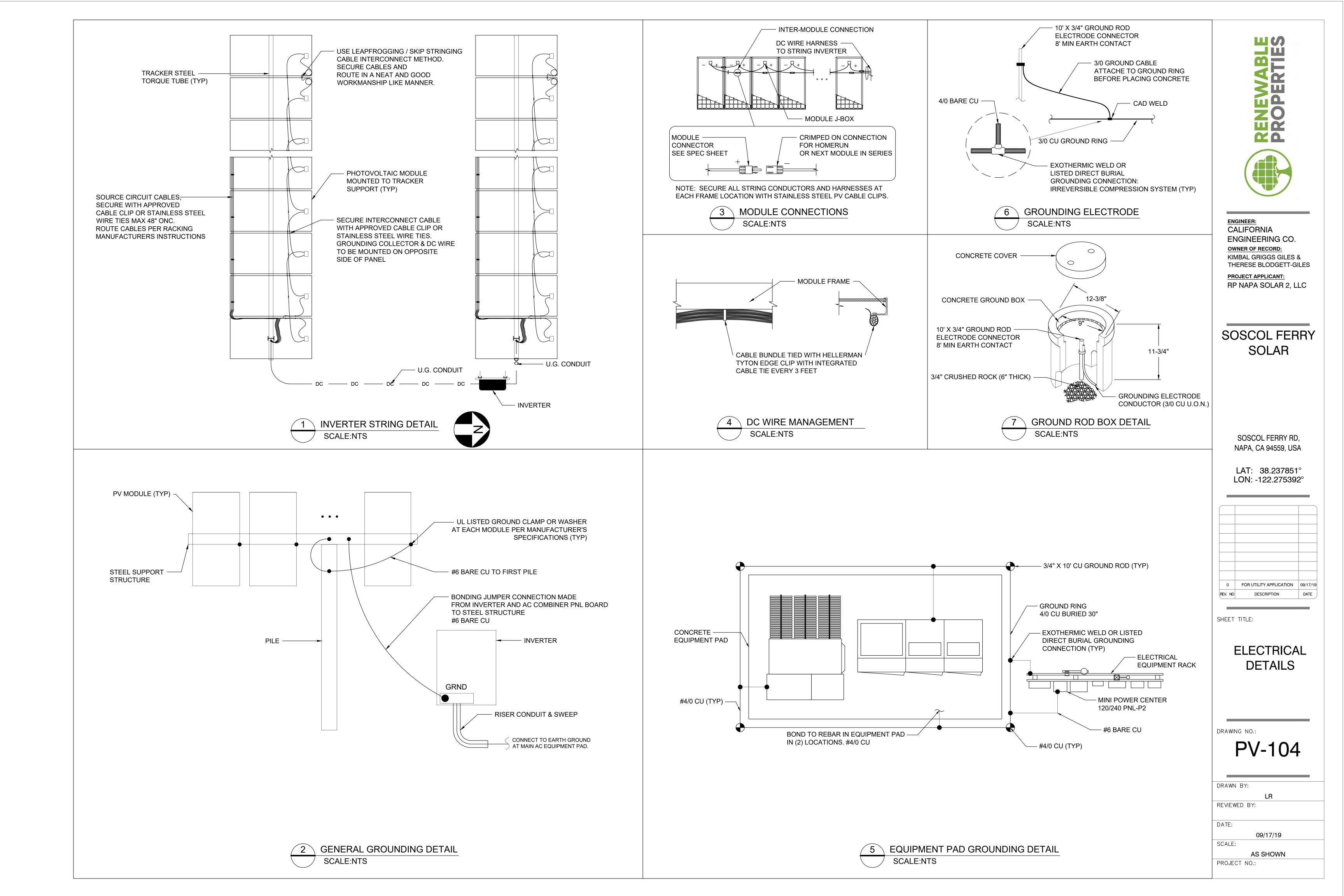
NOTES:

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).









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%	



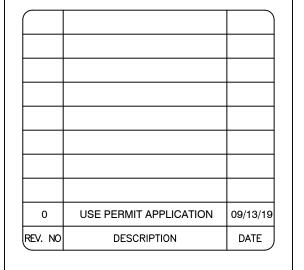
GENERAL NOTES

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

SOSCOL FERRY SOLAR

1605 SOSCOL FERRY RD. NAPA, CA 94559

LAT: 38.237851° LON: -122.275392°



SHEET TITLE:

DRAINAGE PLAN

EXISTING

DRAWING NO .:

DRAWN BY: 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:
 1.1. TITLE: NATIONAL ELEVATION DATA 3 METER OR BETTER
 ORIGINATOR: USDS / NRCS NATIONAL GEOSPATIAL CENTER OF EXCELLENCE

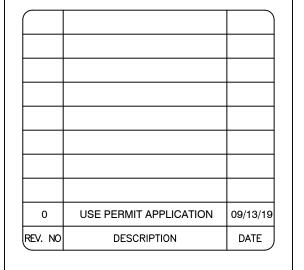
2. NEW IMPERVIOUS AREAS (DRAINAGE MANAGEMENT AREA, DMA's) TO DRAIN TO SURROUNDING PERVIOUS AREAS OF NON-NATIVE ANNUAL GRASSLAND AND EXISTING MATURE VEGETATION, WITH MAX RATIO OF 2:1, PERVIOUS TO IMPERVIOUS.

3. NO GRADING IN EXCESS OF 50 CY IS ANTICIPATED.

SOSCOL FERRY SOLAR

1605 SOSCOL FERRY RD. NAPA, CA 94559

LAT: 38.237851° LON: -122.275392°



SHEET TITLE:

DRAINAGE AND GRADING PLAN

PROPOSED

DRAWING NO .:

DRAWN BY: REVIEWED BY:

DATE:

09/13/19 SCALE:

AS SHOWN

PROJECT NO.: