



LAKE HERMAN SOLAR

LAKE HERMAN RD,
BENICIA, CA 94510, USA

LAT: 38.097075°
LON: -122.141678°

REV. NO.	DESCRIPTION	DATE
0	FOR UTILITY APPLICATION	02/22/20

SHEET TITLE:
PRELIMINARY LAYOUT

DRAWING NO.:
PV-100

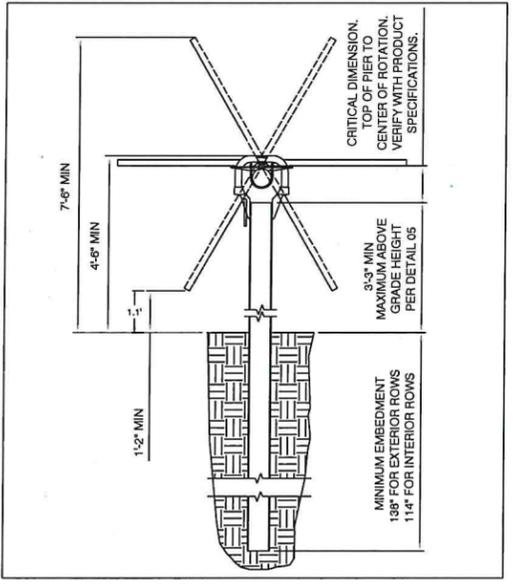
DRAWN BY: LR
REVIEWED BY:
DATE: 02/22/20
SCALE: AS SHOWN
PROJECT NO.:

SYSTEM SPECIFICATIONS	
SYSTEM SIZE DC	7,001.12 kW
SYSTEM SIZE AC	5,000.00 kW
DC/AC RATIO	1.400
MODULE MODEL	JKM380M-72H
MODULE RATING	380 W
TOTAL MODULE QTY	18,424
MODULES PER STRING	28
TOTAL NO. OF STRINGS	658
INVERTER MODEL	SUNGROW SG125HV
INVERTER RATING	125 kW
INVERTER QTY	40
STEP-UP TRANSFORMER	(2) 12KV/600V, 2500KVA
RACKING	ATI HSAT
# OF 58 MODULE RACKS	62
# OF 84 MODULE RACKS	178
INTER-ROW SPACING	13.2'
PITCH	19.8'
GCR	33%
SITE AREA INSIDE FENCE	35.00 Ac

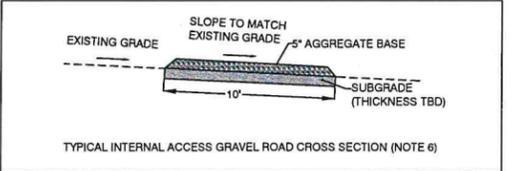
PROJECT SETBACKS	
	LAKE HERMAN SOLAR
FRONT	20'
REAR	20'
SIDE	20'
STREAMS	25'

LEGEND	
	ATI 84 MODULE TRACKER ROW
	ATI 58 MODULE TRACKER ROW
	POWER STATION (TYP. OF 2) - (1) MV TRANSFORMER, (1) DAS, (1) WEATHER STATION
	EQUIPMENT RACK (TYP. OF 10) - (4) SUNGROW 125KW STRING INVERTER, (1) 600A MLO PANEL
	20' WIDE SITE ACCESS GRAVEL ROAD
	12' WIDE PERIMETER DIRT ROAD
	(E) WETLAND
	PUBLIC ROAD
	HIGH SLOPE AREAS
	UNEVEN SLOPE AREAS
	VEGETATIVE SCREEN
	PROPERTY LINE
	PROPERTY LINE
	SETBACK
	(E) OH LINES
	OVERHEAD MV CABLE
	UNDERGROUND MV CABLE

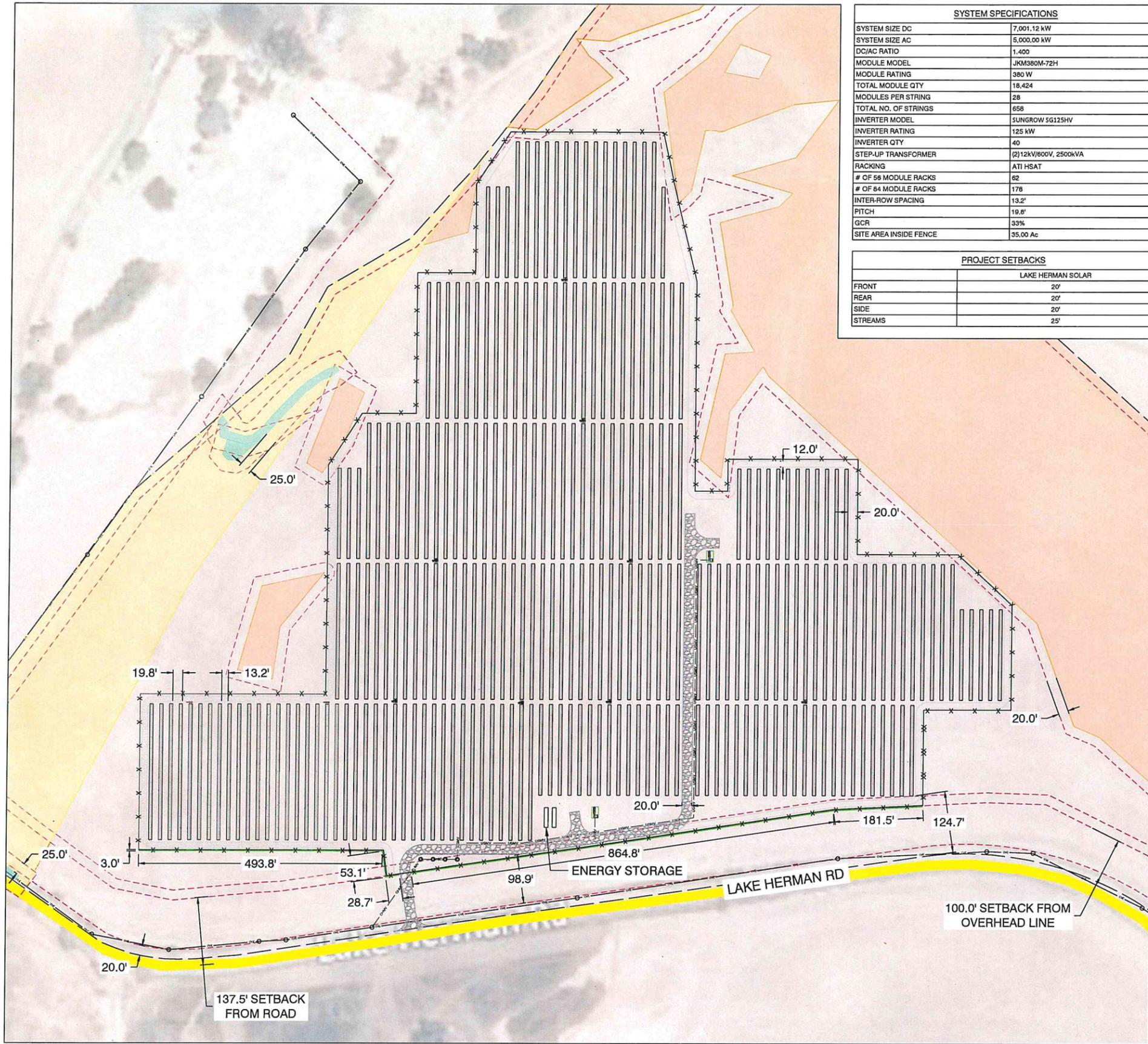
- GENERAL NOTES**
- REFER TO SINGLE LINE DIAGRAM FOR DETAILS.
 - INSTALLATION TO COMPLY WITH NEC 2014 ARTICLE 690 AND ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES OR REGULATIONS.
 - EQUIPMENT SHALL BE LABELED PER NEC 690 AND UTILITY REGULATIONS.
 - 20' ACCESS ROADS SHALL BE DESIGNED TO ACCOMMODATE ALL CONSTRUCTION, OPERATIONS, MAINTENANCE, AND UTILITY TRAFFIC THROUGHOUT THE SITE.
 - DIMENSIONS TO PROPERTY LINES AND EXISTING FEATURES ARE APPROXIMATE PENDING SURVEY.
 - THE CROSS SECTION OF THE PROPOSED 10 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.
 - ALL DRIVE AISLES WILL COMPLY WITH BMC CHAPTER 17.74.



2 RACKING ELEVATION
SCALE: NTS



3 GRAVEL ROAD CROSS SECTION
SCALE: NTS



1 ARRAY PLAN
SCALE: 1"=100'





LEGEND

- ATI 84 MODULE TRACKER ROW
- ATI 58 MODULE TRACKER ROW
- POWER STATION (TYP. OF 2) - (1) MV TRANSFORMER, (1) DAS, (1) WEATHER STATION
- EQUIPMENT RACK (TYP. OF 10)- (4) SUNGROW 125kW STRING INVERTER, (1) 800A MLO PANEL
- 20' WIDE SITE ACCESS GRAVEL ROAD
- 12' WIDE PERIMETER DIRT ROAD
- (E) WETLAND
- PUBLIC ROAD
- HIGH SLOPE AREAS
- UNEVEN SLOPE AREAS
- VEGETATIVE SCREEN
- PROPERTY LINE
- PROPERTY LINE
- SETBACK
- (E) OH LINES
- OVERHEAD MV CABLE
- UNDERGROUND MV CABLE

- GENERAL NOTES**
1. REFER TO SINGLE LINE DIAGRAM FOR DETAILS.
 2. INSTALLATION TO COMPLY WITH NEC 2014 ARTICLE 690 AND ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES OR REGULATIONS.
 3. EQUIPMENT SHALL BE LABELED PER NEC 690 AND UTILITY REGULATIONS.
 4. 20' ACCESS ROADS SHALL BE DESIGNED TO ACCOMMODATE ALL CONSTRUCTION, OPERATIONS, MAINTENANCE, AND UTILITY TRAFFIC THROUGHOUT THE SITE.
 5. DIMENSIONS TO PROPERTY LINES AND EXISTING FEATURES ARE APPROXIMATE PENDING SURVEY.
 6. THE CROSS SECTION OF THE PROPOSED 10 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.
 7. ALL DRIVE AISLES WILL COMPLY WITH BMC CHAPTER 17.74.

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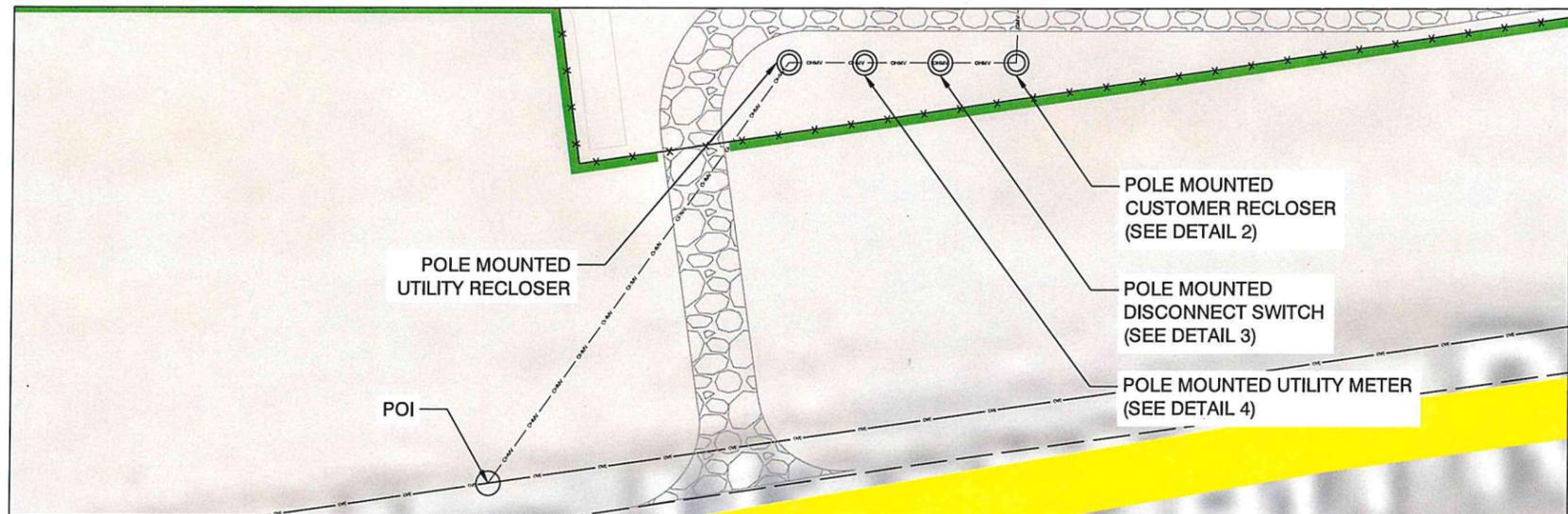
REV. NO.	DESCRIPTION	DATE
0	FOR UTILITY APPLICATION	02/22/20

SHEET TITLE:
CIRCULATION PLAN FOR VEHICLES

DRAWING NO.:
PV-101

DRAWN BY: LR
 REVIEWED BY:
 DATE: 02/22/20
 SCALE: AS SHOWN
 PROJECT NO.:

1 CIRCULATION PLAN FOR VEHICLES
SCALE: 1"=45'



1 INTERCONNECTION DETAILS
SCALE: NTS



RECEIVED
MAR 02 2020
CITY OF BENICIA
COMMUNITY DEVELOPMENT

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SOLAR

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REV. NO.	DESCRIPTION	DATE
0	FOR UTILITY APPLICATION	02/22/20

SHEET TITLE:

INTERCONNECTION
DETAILS

DRAWING NO.:

PV-102

DRAWN BY:

LR

REVIEWED BY:

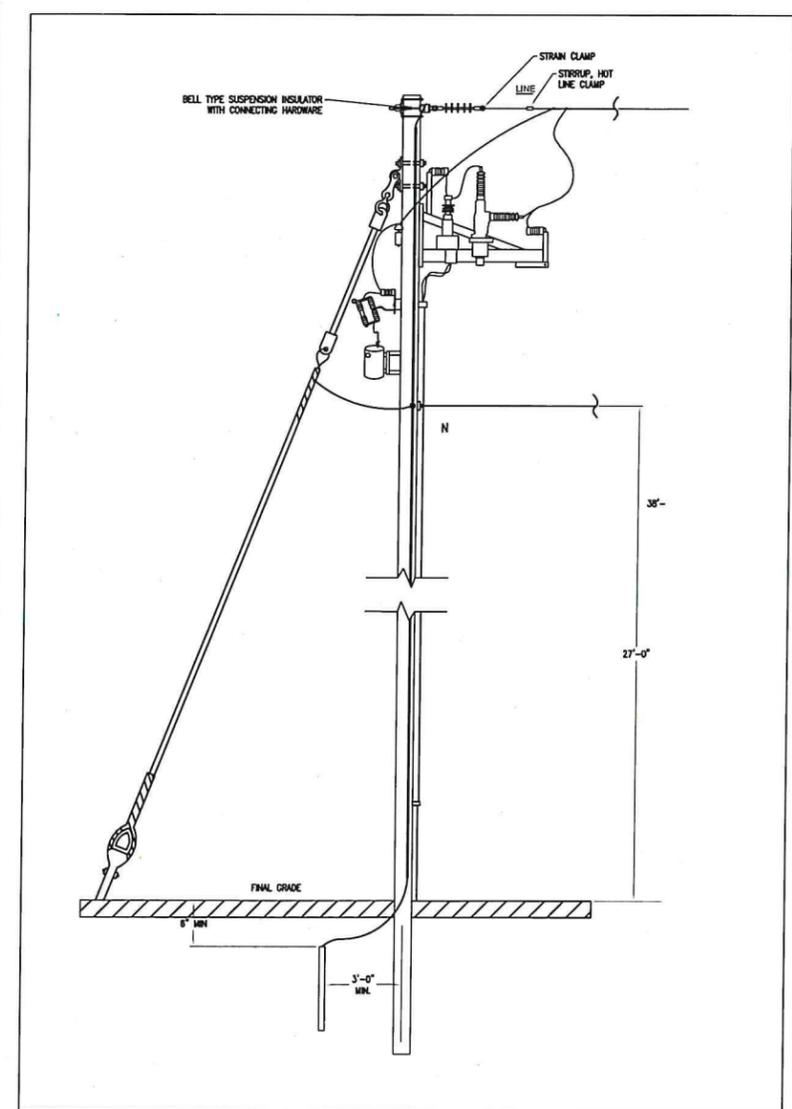
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02/22/20

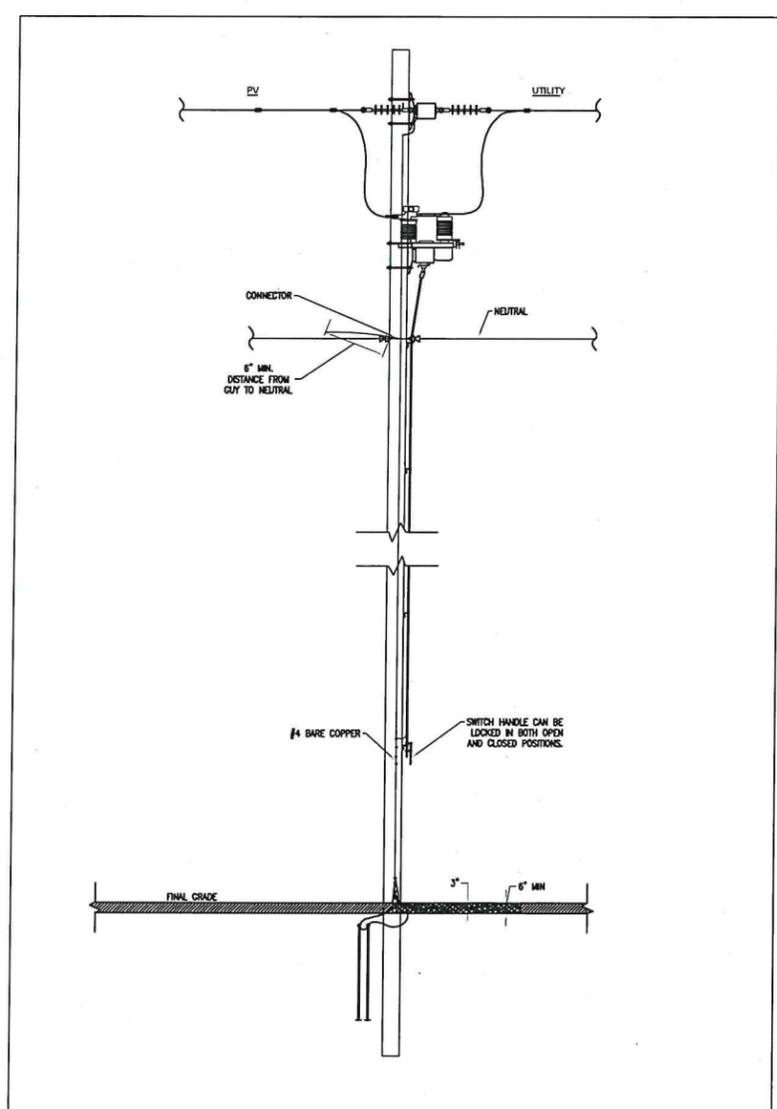
SCALE:

AS SHOWN

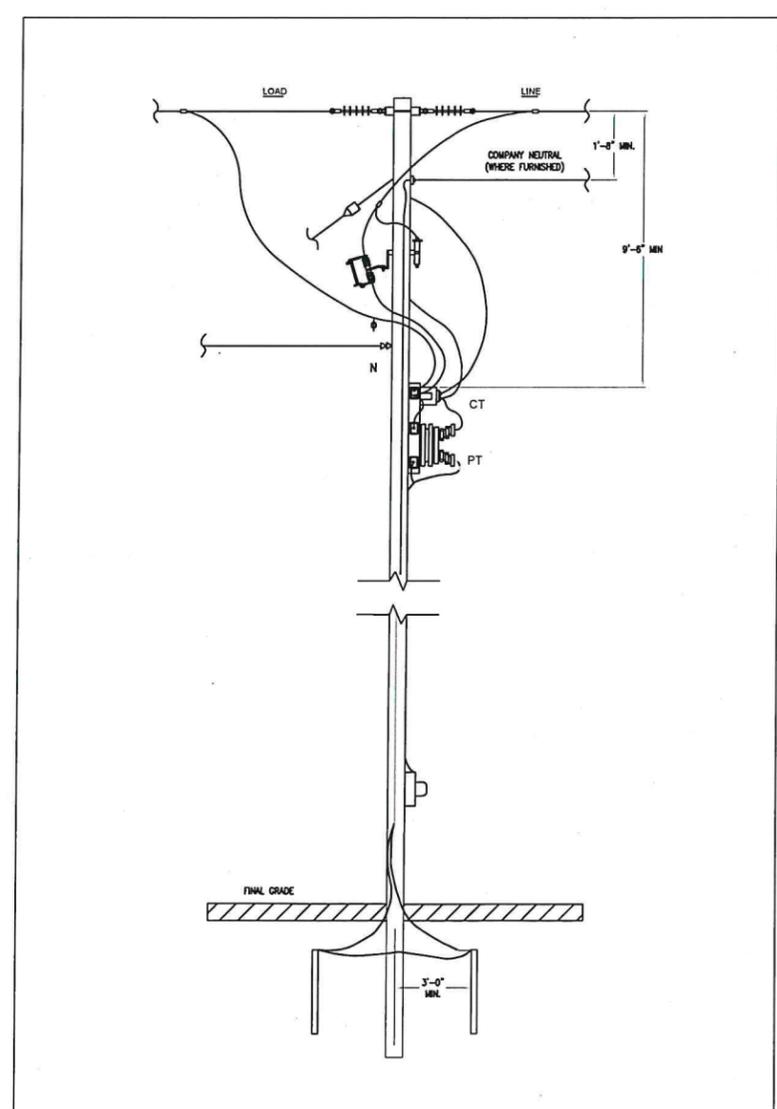
PROJECT NO.:



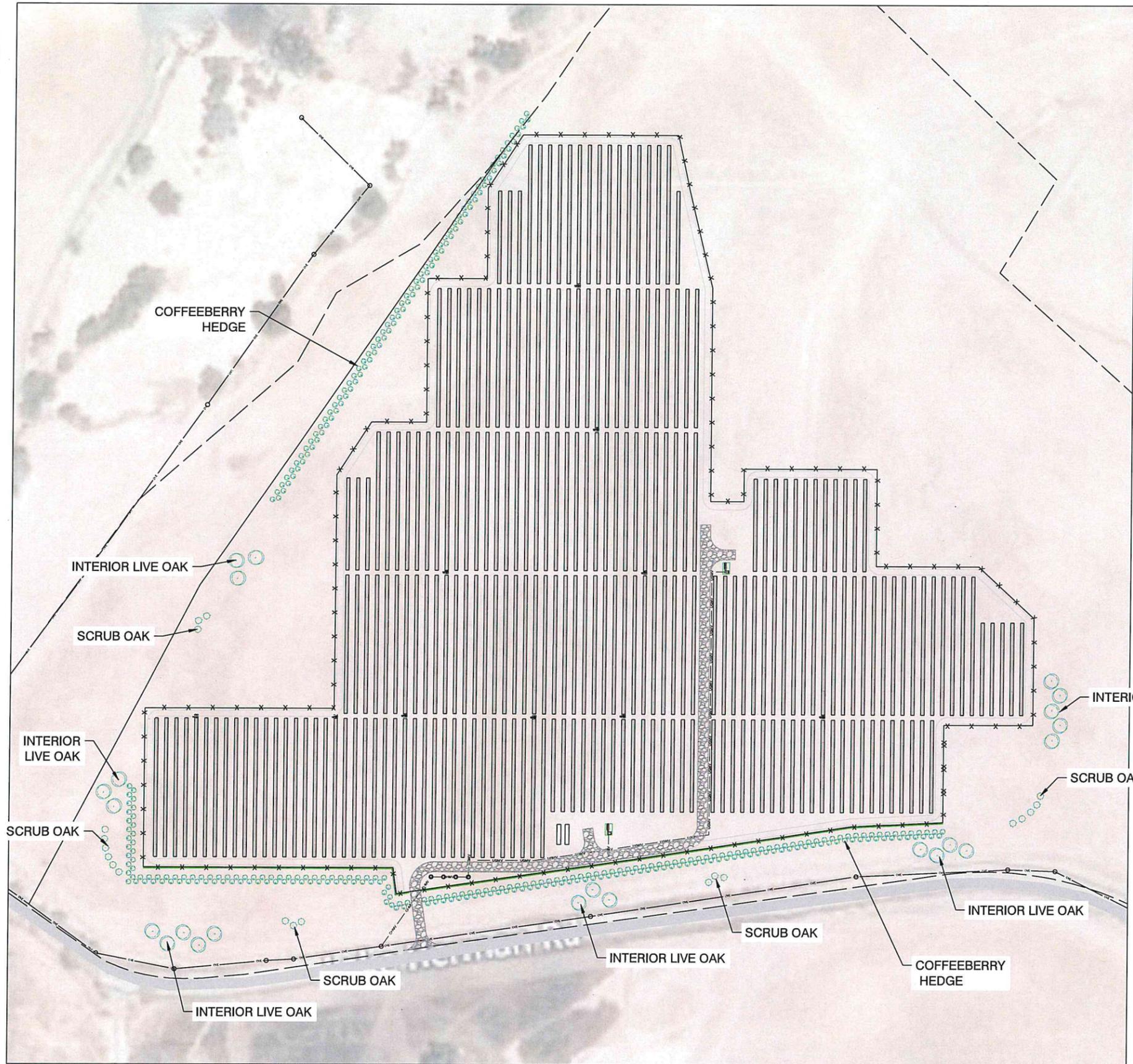
2 RISER POLE WITH CUSTOMER RECLOSER
SCALE: NTS



3 DISCONNECT SWITCH
SCALE: NTS



4 REVENUE METER
SCALE: NTS



1 PRELIM PLANTING PLAN
SCALE: 1"=100'

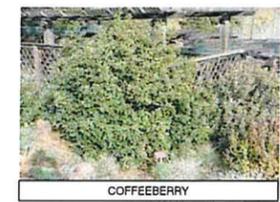


PLANT LIST

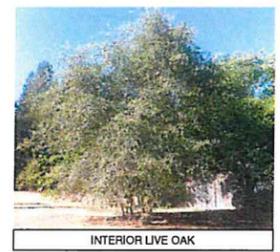
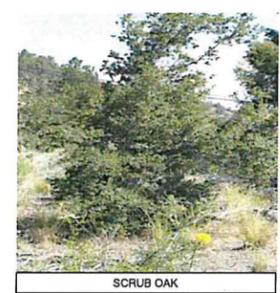
Symbol	Latin Name	Common Name	Height	Diameter	Size	Quantity
SHRUBS/PERENNIALS						
●	Rhamnus californica	Coffeeberry	2-3meters	2-3meters	5 gal	350
TREES						
○	Quercus berberidifolia	Scrub Oak	2-7meters	2-5meters	5 gal	20
○	Quercus wislizeni	Interior Live Oak	5-15meters	3-10meters	5 gal	23

PLANT PALETTE

SHRUBS/PERENNIALS



TREES



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REV. NO.	DESCRIPTION	DATE
0	FOR UTILITY APPLICATION	02/21/20

SHEET TITLE:

LANDSCAPE PLAN

DRAWING NO.:

PV-103

DRAWN BY:

LR

REVIEWED BY:

DATE:

02/21/20

SCALE:

AS SHOWN

PROJECT NO.: