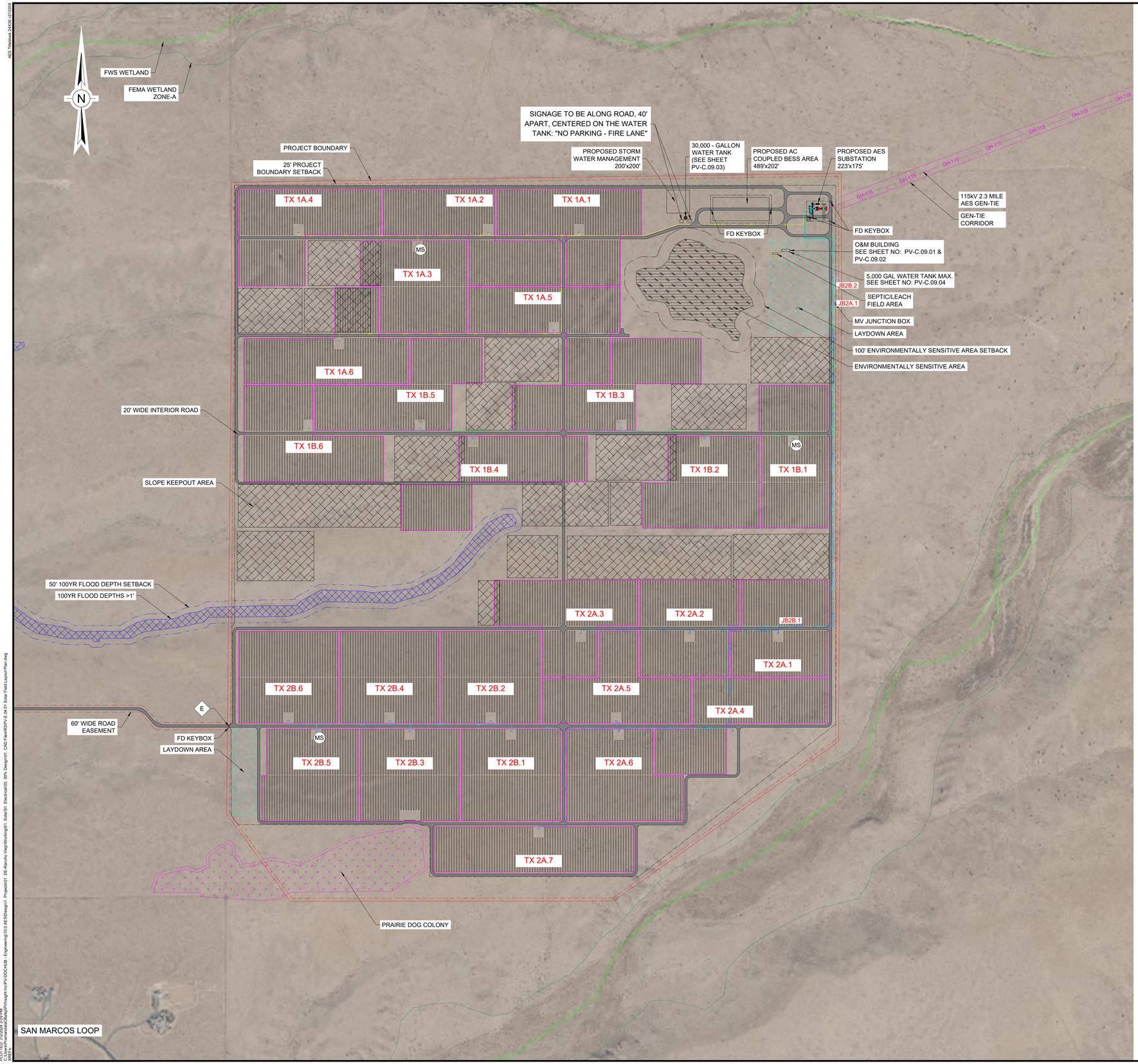

SYSTEM INFORMATION	
MW-AC @ POI:	96
NAMEPLATE MVA:	110
POI VOLTAGE (kV):	115
COLLECTION SYSTEM VOLTAGE (kV)	34.5
MW-DC:	115.2
SITE DC-AC RATIO @ POI	1.2
SITE INFORMATION	
ASHRAE STATION NAME:	SANTA FE, NM, USA
ASHRAE 0.4% DB MAX. TEMPERATURE:	33.6°C
ASHRAE ANNUAL DB MEAN MIN. TEMP.:	-16.7°C
LATITUDE:	35.5415
LONGITUDE:	-106.0106
MODULE	
MODULE MANUFACTURER:	BYD SOLAR
MODULE MODEL #:	MLTK-36
STC WATTAGE (W):	560
VOLTAGE RATING (V):	1500 (VDC)
DIMENSIONS	2278x1134x35MM
MODULES PER STRING:	26
PV ARRAY	
MODULE QUANTITY:	205,712
TOTAL STRINGS:	7912
LOAD BREAK DISCONNECT QUANTITY:	456
PV INVERTER	
INVERTER MANUFACTURER:	SUNGROW
INVERTER MODEL #:	SG4400UD-MV-US
KVA @ 40° C:	4400
KVA @ DESIGN TEMP:	4400
MAX. INPUT VOLTAGE (V-DC):	1500
INV QUANTITY:	25
TRACKER	
TRACKER MANUFACTURER AND MODEL:	ATI DURATRACK HZ V3
AZIMUTH (DEG):	180
CONFIGURATION:	1-HIGH PORTRAIT
ROTATION ANGLE LIMITS:	52°±
78 MODULE (3-STRING) TRACKER QUANTITY:	104
104 MODULE (4-STRING) TRACKER QUANTITY:	1900
TOTAL TRACKER QUANTITY:	2004
PITCH (FT) / GCR (%):	21.98' / 34%
MIN INTER-ROW SPACING (FT):	14.5

NOTES:

1. ALL DIMENSIONS ARE IN FEET OTHERWISE SPECIFIED.
2. THIS DRAWING IS PRELIMINARY AND FOR ESTIMATING PURPOSES ONLY. IT IS NOT FOR CONSTRUCTION.
3. ALL SPECIFIED EQUIPMENTS ARE PRELIMINARY. FINAL EQUIPMENT SELECTION SHALL BE APPROVED BY OWNER.
4. PCS SIZE CONSIDERED FOR THE LAYOUT IS 4400 kVA.
5. LOCATION OF ALL EXISTING ITEMS IS APPROXIMATE AND MUST BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.
6. 50' N/S DISTANCE HAS BEEN MAINTAINED BETWEEN TABLE TO TABLE WHERE PCS's ARE LOCATED AND FOR OTHERS 12' HAS BEEN MAINTAINED.
7. INTERIOR ROADS ARE MAINTAINED AT 20' WIDE.
8. OFFSET OF MINIMUM 16' HAVE BEEN MAINTAINED FROM INTERIOR ROADS CENTER TO PV TRACKERS.
9. OFFSET OF 16' HAVE BEEN MAINTAINED FROM FENCING TO INTERIOR ROADS CENTER.
10. MINIMUM OFFSET OF 25' HAVE BEEN MAINTAINED FROM PROJECT BOUNDARY TO FENCE.
11. CURRENT LAYOUT IS BASED ON THE ALTA SHARED ON 08.10.2022
12. FOR DETAILS RELATED TO THE COLLECTOR SUBSTATION, SWITCHYARD AND BESS DESIGN DRAWINGS, REFER TO THE DRAWING SET AS PREPARED BY SUBSTATION CONTRACTOR.

LEGEND:

- SITE ENTRANCE W/ 20' GATE
- MET STATION
- PROJECT BOUNDARY
- PROJECT BOUNDARY - 25' SETBACK
- 100YR FLOOD DEPTHS >1'
- 100YR FLOOD - 50' SETBACK
- ENVIRONMENTALLY SENSITIVE AREA
- ENVIRONMENTALLY SENSITIVE AREA - 100' SETBACK
- PRAIRIE DOG COLONY
- PRAIRIE DOG COLONY - 25' SETBACK
- SLOPE KEEPOUT AREA
- 115kV OVERHEAD TRANSMISSION LINE
- FWS WETLAND
- FEMA WETLAND (ZONE-A)
- LAYDOWN AREA
- FENCE
- INTERIOR ROADS
- XFMR SKID
- MEDIUM VOLTAGE AC, CIRCUIT #1
- MEDIUM VOLTAGE AC, CIRCUIT #2
- MEDIUM VOLTAGE AC, CIRCUIT #3
- MEDIUM VOLTAGE AC, CIRCUIT #4
- XFMR SKID GROUPING
- MV JUNCTION BOX
- PV PANELS 1P 4 STRING
- PV PANELS 1P 3 STRING
- 30,000-GALLON WATER TANK

aes
2180 South 1300 East, Suite 600
Salt Lake City, UT 84106-2749
(801) 679 - 3500

PVinsight Inc
DELIVERING EXCELLENCE
5717 Legacy Dr Suite 250,
Plano, Texas 75024

PE STAMP:

30% DESIGN
NOT FOR CONSTRUCTION

KEY PLAN:

REVISIONS:

NO.	DATE	DESCRIPTION
0	08/02/2023	ISSUED FOR 30% DESIGN
1	08/11/2023	UPDATED 30% DESIGN
2	03/04/2024	UPDATED 30% DESIGN
3	07/02/2024	UPDATED 30% DESIGN

PROJECT TITLE:

RANCHO VIEJO SOLAR UTILITY

PROJECT LOCATION:

SANTA FE COUNTY, NEW MEXICO
(35.5415, -106.0106)

SHEET TITLE & DESCRIPTION:

SOLAR FIELD LAYOUT PLAN

96 MWAC/115.2 MWDC

PROJ NUM:

DES:	PC BALAJI
DWN:	J RAJESHWAR
CHK:	M AJAY
APV:	P KRISHNA
DATE:	07/02/2024

SCALE AT 24" x 36":
0 200' 400' 600' 800'
1" = 400'

SHEET NO: PV-E.04.01
REV: 3