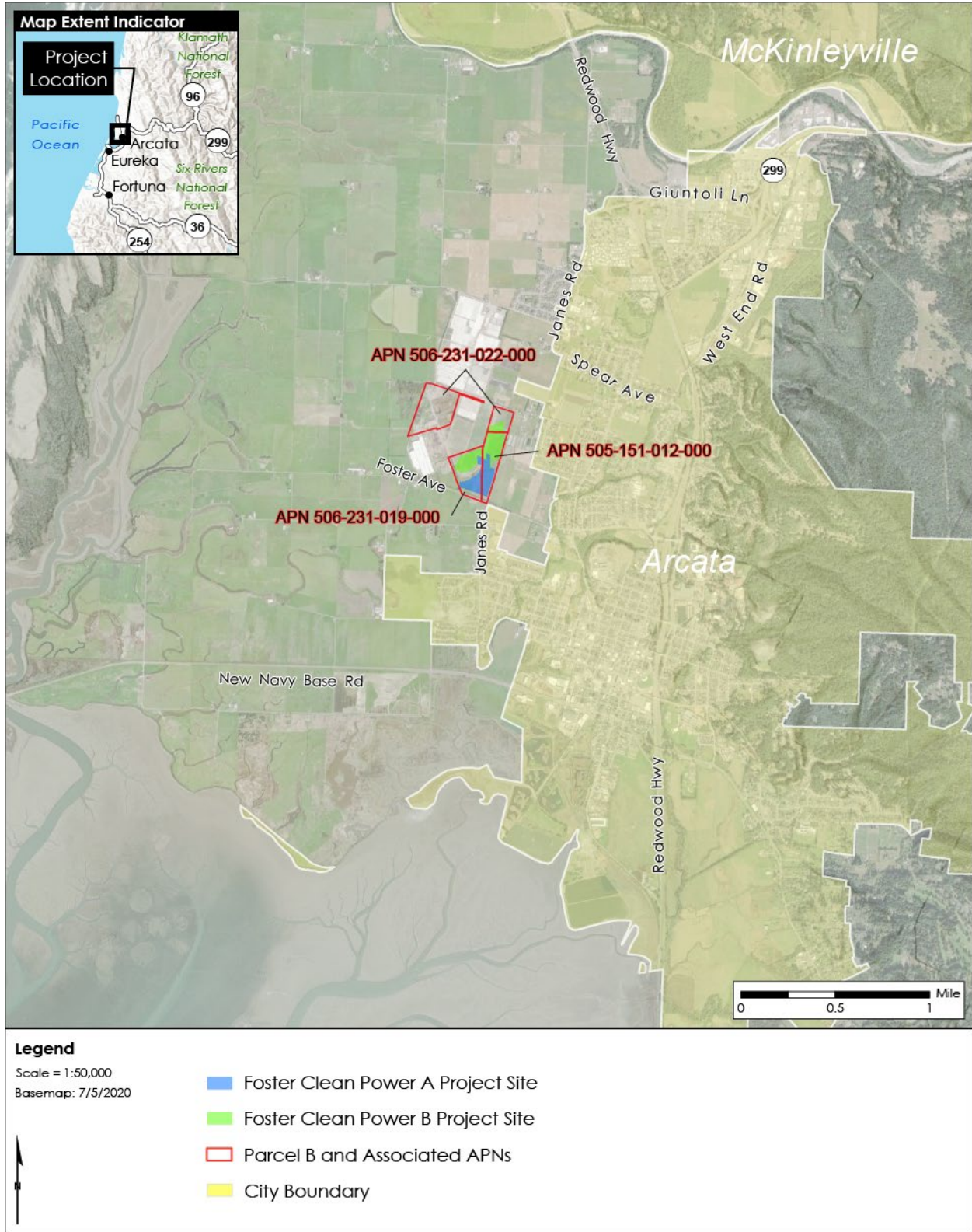


Appendix A Figures

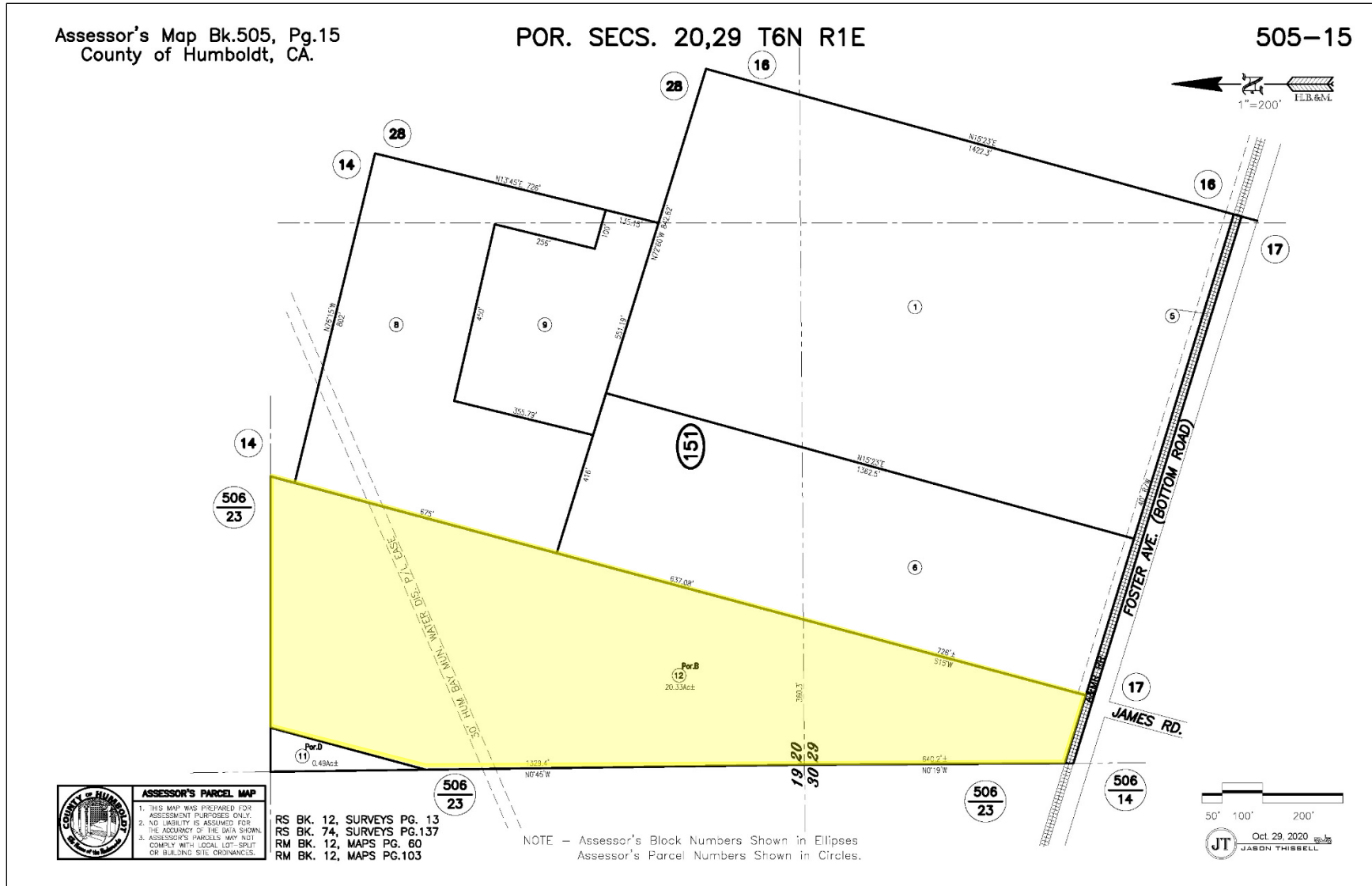
APPENDIX A

Figure A-1 Foster Clean Power Project Location



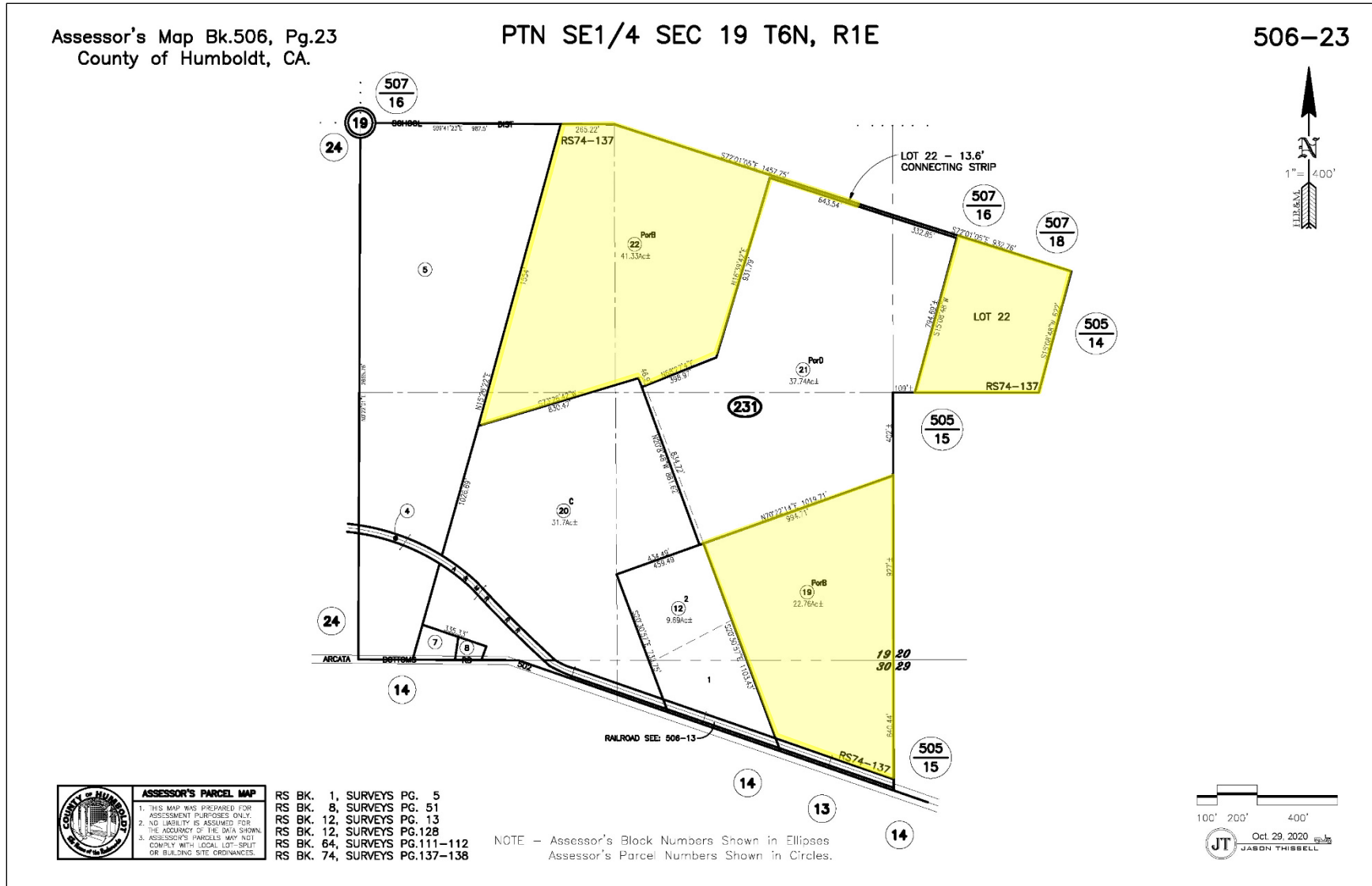
APPENDIX A

Figure A-2 Assessor's Parcel Map 505-15



APPENDIX A

Figure A-3 Assessor's Parcel Map 506-23



APPENDIX A

Figure A-4 Humboldt County General Plan Land Use Designations



RNA
Think Local. Act Local.

RENEWABLE AMERICA LLC
4675 Stevens Creek Blvd, Ste 250
Santa Clara, CA 95051
TEL: 408-663-6647 X702
ADMIN@RENEWAM.COM

THIS DRAWING IS A COPYRIGHT PROPERTY OF RENEWABLE AMERICA LLC. IT MAY NOT BE REPRODUCED (IN WHOLE OR PART) FOR OTHER THAN THE PROJECT NAMED WITHOUT THE WRITTEN CONSENT OF RENEWABLE AMERICA LLC.

FOSTER CLEAN POWER A & B GENERAL PLAN DETAILS:

ZONING	
[Blue Box]	AE: Agriculture Exclusive
[Red Box]	RE2.5: Residential Estates 2.5 acres/unit
[Orange Box]	RE2.5-5: Residential Estates 2.5-5 acres/unit
[Green Box]	PF: Public Facilities
[Purple Box]	UR/RM: Urban Reserve/Mixed Use
[Yellow Box]	CITY OF ARCATA

THIS DRAWING IS FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION.

NO.	REVISION / ISSUE	DATE
0.	G002	14-Nov-22

PROJECT NAME:
FOSTER CLEAN POWER A & B

PROPERTY OWNER:
Arcata Land Company LLC

PROPERTY OWNER CONTACT:
(707)-845-7721

PARCEL NUMBER:
506-231-019, 505-151-012, 506-231-022

LOCATION:
Foster Ave, Arcata, CA 95521

POI GPS COORDINATES:
40.881197, -124.100703

DRAWING TITLE:
UNINCORPORATED HUMBOLDT COUNTY GENERAL PLAN

AUTOCAD FILE NAME: 22114-RNA-FOSTA-PP	SHEET: GENERAL PLAN
PLOT FILE NAME: 22114-RNA-FOSTA-PP	PLOT DATE: 14-Nov-22
DRAWN BY: UR	CHECKED BY: UR
SCALE: 1" = 190'	PLOT TIME: 09:54

APPENDIX A

Figure A-5 Humboldt County Zoning Ordinance

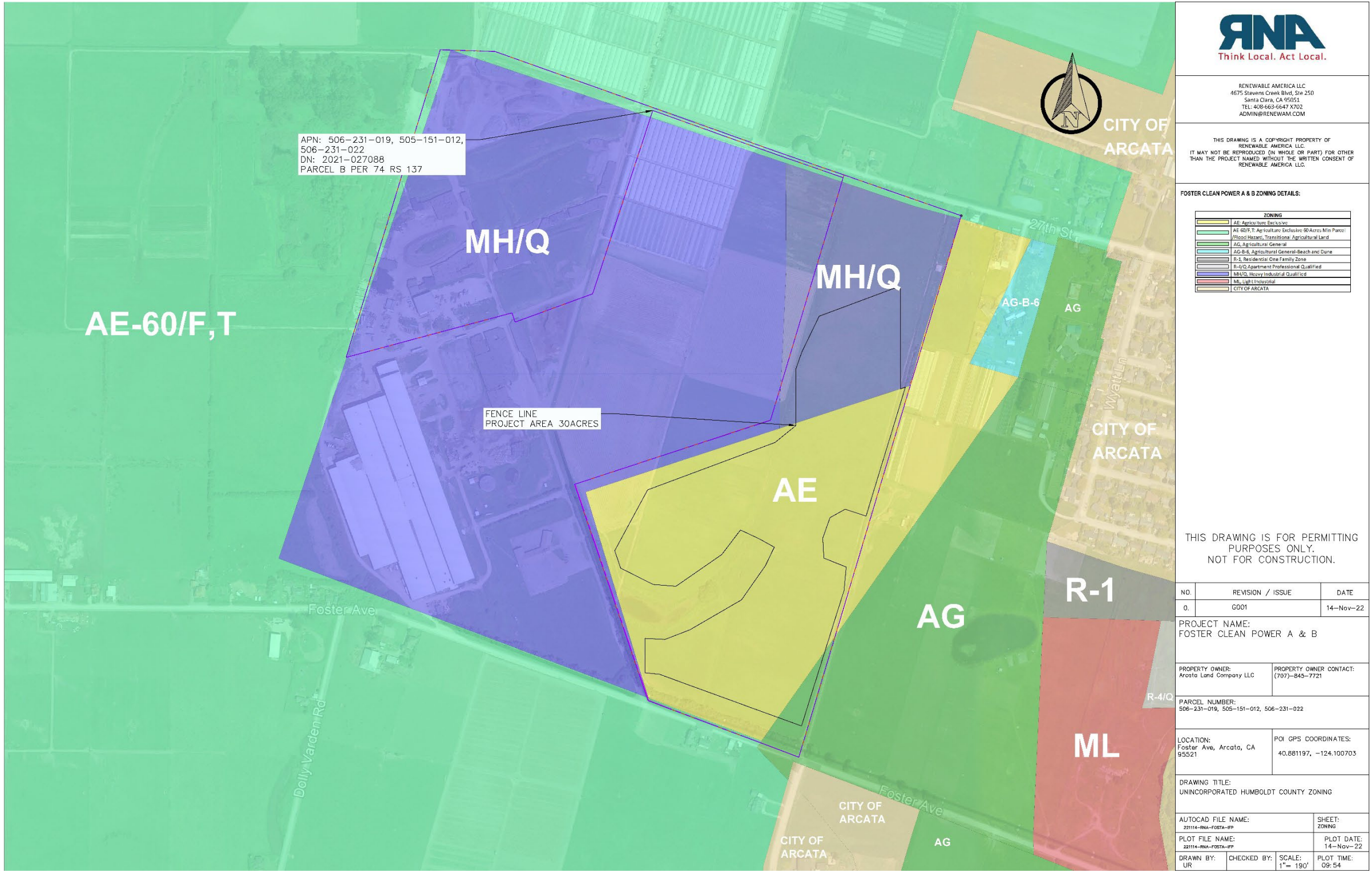


Figure A-6 Foster Clean Power A Project Site Plan

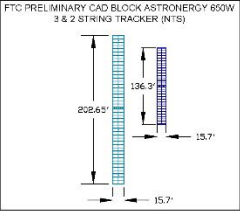


RENEWABLE AMERICA LLC
4675 Stevens Creek Blvd, Ste 250
Santa Clara, CA 95051
TEL: 408-663-6647 X7102
ADMIN@RENEWAM.COM

THIS DRAWING IS A COPYRIGHT PROPERTY OF RENEWABLE AMERICA LLC. IT MAY NOT BE REPRODUCED (IN WHOLE OR PART) FOR OTHER THAN THE PROJECT NAMED WITHOUT THE WRITTEN CONSENT OF RENEWABLE AMERICA LLC.

FOSTER CLEAN POWER A PV SYSTEM SPECS:

MODULE SPECIFICATION	
MANUFACTURER	A1-162
WARRANTY PERIOD	10-YEAR/30-YEAR
PV MODULE POWER PERM (W)	360
SUPPLY VOLTAGE (V)	48.26
VOLTAGEM -TYPE (V)	0.27
INVERTER SPECIFICATION	
MANUFACTURER	DELTA-ELECTRONICS
INVERTER MODEL	57500A
MAX DC INPUT POWER (KW)	3000
MAX DC INPUT CURRENT (A)	2700
NOMINAL VOLTAGE (VDC)	600
MAX INPUT CURRENT (A)	340
MIN VOLTAGE START UP (V)	475
MAX INPUT VOLTAGE (V)	1000
PV SYSTEM SPECIFICATION	
DC SYSTEM VOLTAGE (V)	600
DC SYSTEM CURRENT (A)	1500
AC SYSTEM VOLTAGE (V)	208
AC SYSTEM FREQUENCY (HZ)	60
AC SYSTEM PHASE	1
AC SYSTEM WAVEFORM	SINUSOIDAL
AC SYSTEM HARMONIC THD (%)	5
AC SYSTEM EFFICIENCY (%)	97
AC SYSTEM LOSS (%)	3
DC-DC CONVERSION EFFICIENCY (%)	98
DC-AC CONVERSION EFFICIENCY (%)	98
AC SYSTEM LOSS (%)	3
DC SYSTEM LOSS (%)	2
TOTAL SYSTEM LOSS (%)	5
TOTAL BATTERY CAPACITY (KWH)	8200



THIS DRAWING IS FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION.

NO.	REVISION / ISSUE	DATE
0.	A001	14-Nov-22

PROJECT NAME:
FOSTER CLEAN POWER A & B

PROPERTY OWNER:
Arcato Land Company LLC

PROPERTY OWNER CONTACT:
(707)-845-7721

PARCEL NUMBER:
506-231-019, 506-151-012, 506-231-022

LOCATION:
Foster Ave, Arcata, CA 95521

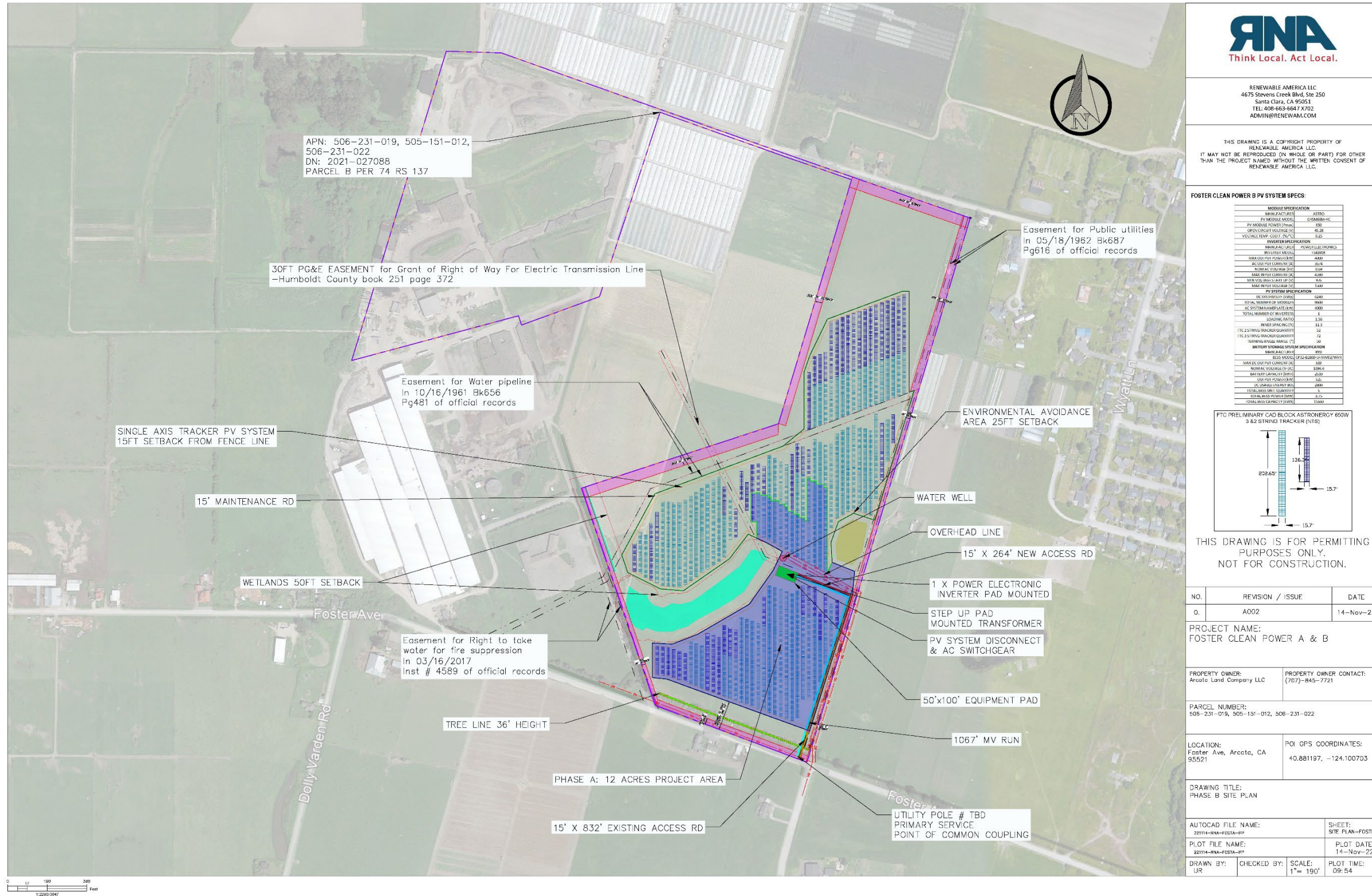
POI GPS COORDINATES:
40.881197, -124.100703

DRAWING TITLE:
PHASE A SITE PLAN

AUTOCAD FILE NAME: 22114-RNA-FOSTA-RP	SHEET: SITE PLAN-FOSTA
PLOT FILE NAME: 22114-RNA-FOSTA-RP	PLOT DATE: 14-Nov-22
DRAWN BY: UR	CHECKED BY: SCALE: 1"= 190' PLOT TIME: 09:54

APPENDIX A

Figure A-7 Foster Clean Power B Project Site Plan

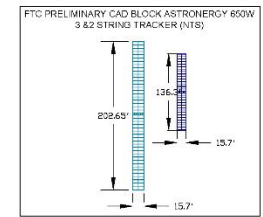


RENEWABLE AMERICA LLC
4675 Stevens Creek Blvd, Ste 250
Santa Clara, CA 95051
TEL: 408-663-6647 X702
ADMIN@RENEWAM.COM

THIS DRAWING IS A COPYRIGHT PROPERTY OF
RENEWABLE AMERICA LLC.
IT MAY NOT BE REPRODUCED (IN WHOLE OR PART) FOR OTHER
THAN THE PROJECT NAMED WITHOUT THE WRITTEN CONSENT OF
RENEWABLE AMERICA LLC.

FOSTER CLEAN POWER B PV SYSTEM SPECS:

MODULE SPECIFICATION	
MODULE TYPE	6700
PV MODULE MODEL	CHR600A-HC
PV MODULE POWER (Watt)	390
OPEN CIRCUIT VOLTAGE (V)	40.28
VOLTAJE TEMP. COEFF. (%/C)	-0.25
INVERTER SPECIFICATION	
INVERTER TYPE	POWER ELECTRONICS
MAX DC INPUT POWER (KW)	4000
AC OUTPUT VOLTAGE (V)	208V
MAX AC OUTPUT (KW)	2000
MAX AC OUTPUT (V)	240V
MAX AC OUTPUT (A)	100
PV SYSTEM SPECIFICATION	
DC SYSTEM VOLTAGE (V)	400V
TOTAL NUMBER OF INVERTERS	1000
AC SYSTEM AMPERAGE (A)	1000
TOTAL NUMBER OF INVERTERS	1
STRINGING RATIO	3:16
NUMBER OF STRINGS	14.3
DC STRINGING RATIO QUANTITY	24
DC STRINGING RATIO QUANTITY	72
INVERTER MODEL	30
BATTERY STORAGE SYSTEM SPECIFICATION	
MAX DC INPUT (KW)	970
MAX DC INPUT CURRENT (A)	100
MAXIMUM VOLTAGE (V)	208V
MAX AC OUTPUT (KW)	2000
MAX AC OUTPUT (V)	240V
MAX AC OUTPUT (A)	100
TOTAL BATTERY STORAGE	8.0
STORAGE CAPACITY (KWH)	15660



THIS DRAWING IS FOR PERMITTING
PURPOSES ONLY.
NOT FOR CONSTRUCTION.

NO.	REVISION / ISSUE	DATE
0.	A002	14-Nov-22

PROJECT NAME:
FOSTER CLEAN POWER A & B

PROPERTY OWNER: Arcata Land Company LLC
PROPERTY OWNER CONTACT: (707)-845-7721

PARCEL NUMBER:
506-231-019, 505-131-012, 506-231-022

LOCATION: Foster Ave, Arcata, CA 95521
POI GPS COORDINATES: 40.881197, -124.100703

DRAWING TITLE:
PHASE B SITE PLAN

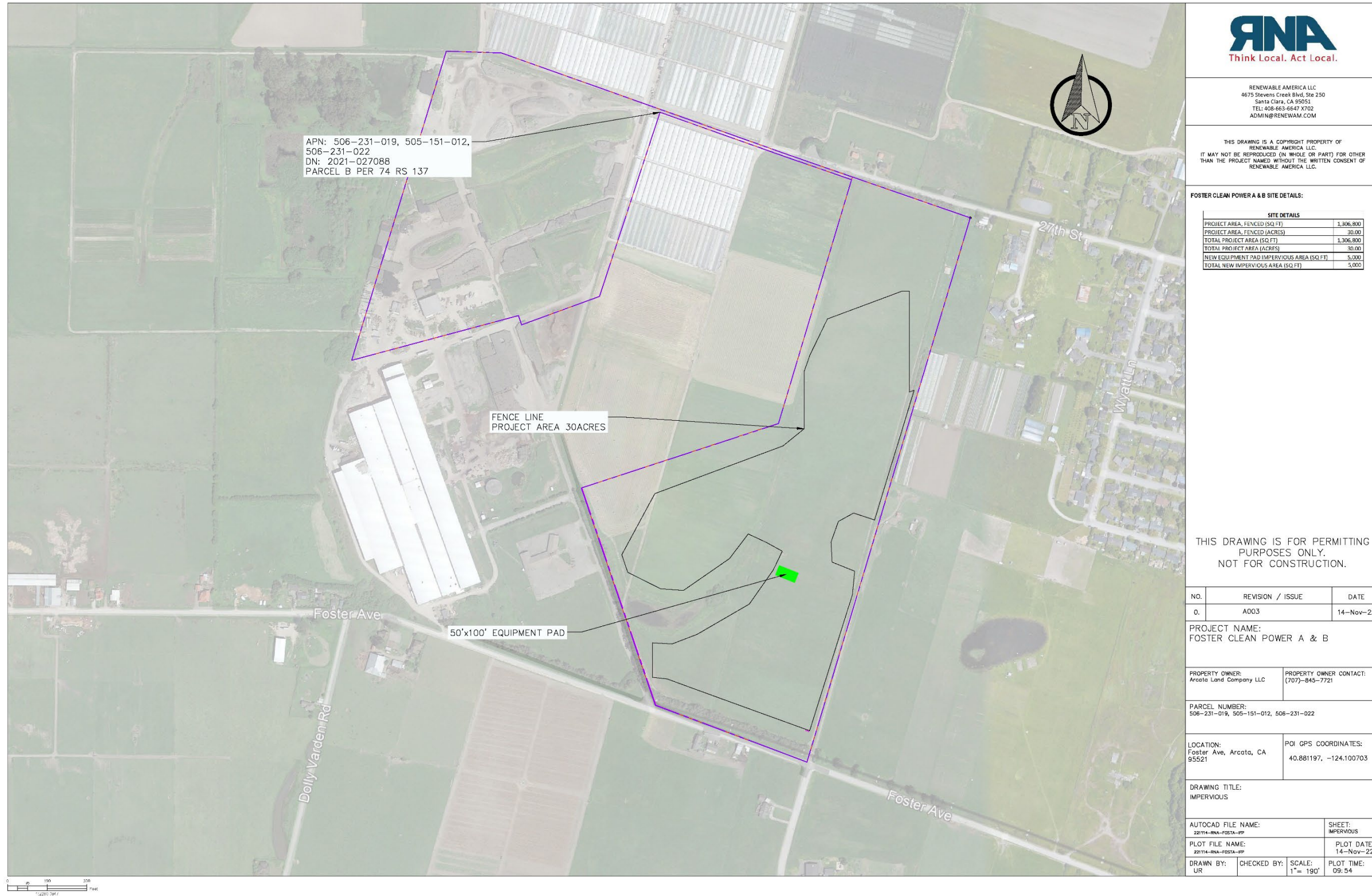
AUTOCAD FILE NAME: 22114-RNA-FOSTA-RP
SHEET: SITE PLAN-FOSTB

PLOT FILE NAME: 22114-RNA-FOSTA-RP
PLOT DATE: 14-Nov-22

DRAWN BY: UR
CHECKED BY: UR
SCALE: 1"= 190'
PLOT TIME: 09:54

APPENDIX A

Figure A-8 Impervious Surface



APPENDIX A

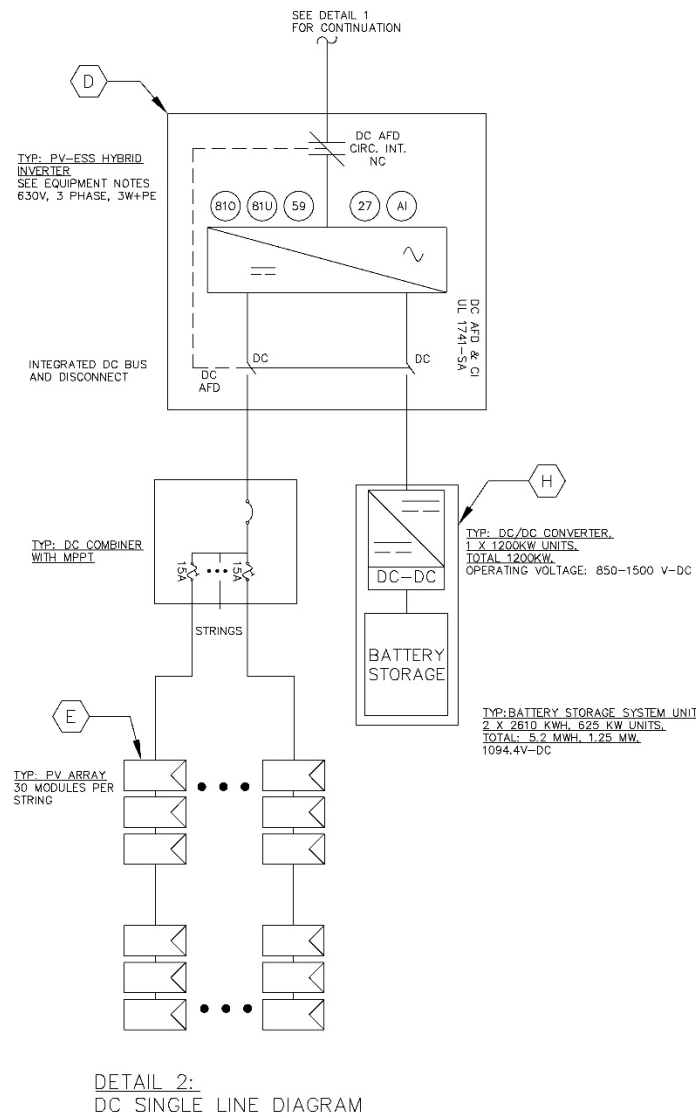
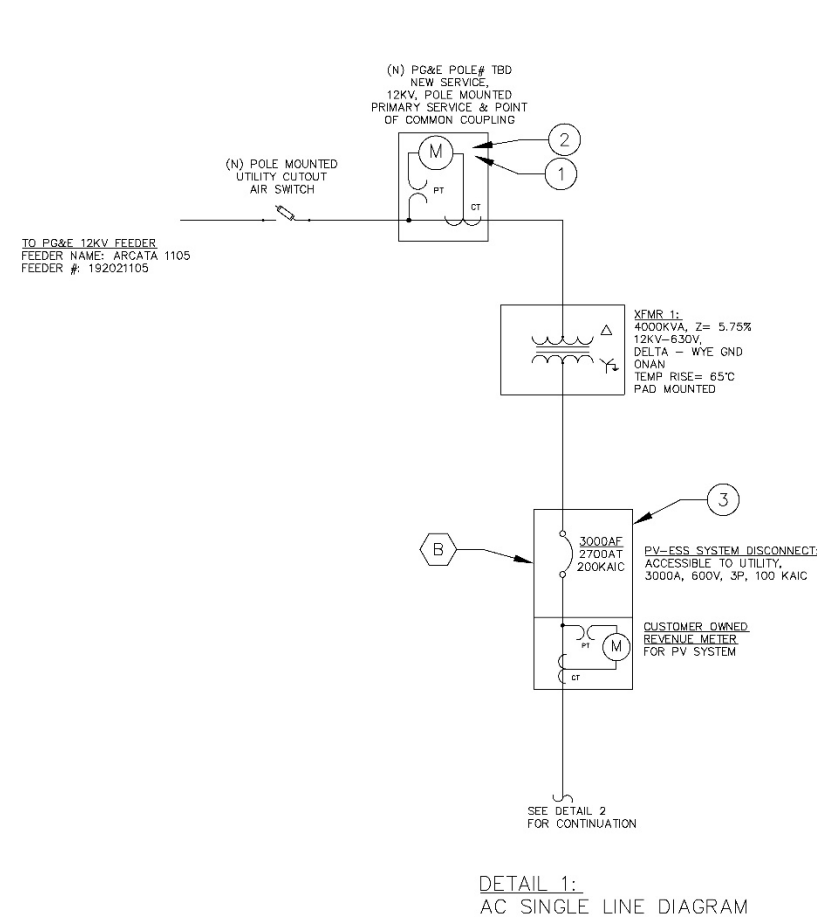
Figure A-9 Foster Clean Power A Single Line Diagram

EQUIPMENT NOTES:

- A. NOT USED .
- B. 3000A, 630V, 3P, 65KAIC, EATON MAGNUM DS CIRCUIT BREAKER. AS PV SYSTEM LOCKABLE DISCONNECT
- C. NOT USED.
- D. INV-1: 3000KW, 690V-AC, 2756A, 3φ, 3W CENTRAL HYBRID INVERTER TYPE, POWER ELECTRONICS FS3290K (1500V-DC MAX INPUT VOLTAGE), UL1741-SA CERTIFIED INVERTER MAX. OUTPUT POWER SHALL BE ELECTRONICALLY CURTAILED TO 3000KW-AC BY MANUFACTURER.
- E. (6,840) X MODULES: 650W, 1500V-DC, UL LISTED SOLAR PV MODULE, TYPE ASTROENERGY CHSM66M-HC.
- F. NOT USED.
- G. NOT USED.
- H. (2) X ENERGY STORAGE SYSTEM (ESS), DC-COUPLED, BYD CP32-B2800-U-R4M02/WVR , UL9540 CERTIFIED, 2610 KWH, 625KW, 1094.4V-DC.

KEY NOTES:

1. NEW SERVICE AND METERING SYSTEM (BY UTILITY).
2. POINT OF COMMON COUPLING (PCC). SYMMETRICAL FAULT CURRENT FROM PV SYSTEM AT PCC = 249.7A @ 12000V.
3. PROVIDE ACCESSIBLE LOCKABLE DISCONNECT AND PROTECTION DEVICE PER UTILITY INTERCONNECTION GUIDELINES TO ISOLATE GENERATING FACILITY FROM UTILITY DISTRIBUTION SYSTEM.
4. SYMMETRICAL FAULT CURRENT FROM PV SYSTEM AT PV SYSTEM DISCONNECT = 3,745A @ 630V.



RENEWABLE AMERICA LLC
4675 Stevens Creek Blvd, Ste 250
Santa Clara, CA 95051
TEL: 408-663-6647 X702
ADMIN@RENEWAM.COM

THIS DRAWING IS A COPYRIGHT PROPERTY OF RENEWABLE AMERICA LLC. IT MAY NOT BE REPRODUCED (IN WHOLE OR PART) FOR OTHER THAN THE PROJECT NAMED WITHOUT THE WRITTEN CONSENT OF RENEWABLE AMERICA LLC.

FOSTER CLEAN POWER A PV SYSTEM SPECS:

MODULE SPECIFICATION	
MANUFACTURER	ASTRO
PV MODULE MODEL	CHSM66M-HC
PV MODULE POWER (Pmax)	652
DC VOLTAGE (Voc)	45.38
VOLTAJE TEMP. COEFF. (Voc)	-0.37
INVERTER SPECIFICATION	
MANUFACTURER	POWER ELECTRONICS
INVERTER MODEL	FS3290K
MAX OUTPUT POWER (KW)	3000
AC OUTPUT CURRENT (A)	2756
MAX AC VOLTAGE (V)	690
MAX INPUT CURRENT (A)	865
MIN VOLTAGE STARTUP (V)	600
MAX INPUT VOLTAGE (V)	1500
PV SYSTEM SPECIFICATION	
DC VOLTAGE (V)	850
TOTAL NUMBER OF MODULES	6840
DC SYSTEM WATTAGE (KW)	3000
TOTAL NUMBER OF INVERTERS	1
WINDING RATIO	1.88
INVERTER TRACKING	
PTC 2 STRING TRACKER QUANTITY	36
PTC 4 STRING TRACKER QUANTITY	60
TOTAL TRACKING ENERGY (KWh)	60
BATTERY STORAGE SYSTEM SPECIFICATION	
MANUFACTURER	BYD
ESS MODEL	CP32-B2800-U-R4M02/WVR
MAX DC OUTPUT CURRENT (A)	625
MAX AC VOLTAGE (V)	1094.4
BATTERY CAPACITY (KWH)	2610
OUTPUT POWER (KW)	625
DC VOLTAGE (V)	1094.4
TOTAL BATTERY QUANTITY	2
TOTAL BATTERY POWER (KW)	1.25
TOTAL BATTERY CAPACITY (KWH)	5.2

NOTE: ELECTRICAL SINGLE LINE DIAGRAM IS NOT FOR CONSTRUCTION AND WILL BE UPDATED PRIOR TO CONSTRUCTION START.

THIS DRAWING IS FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION.

NO.	REVISION / ISSUE	DATE
0.	E001	14-Nov-22

PROJECT NAME:
FOSTER CLEAN POWER A & B

PROPERTY OWNER: Arcata Land Company LLC	PROPERTY OWNER CONTACT: (707)-845-7721
--	---

PARCEL NUMBER:
506-231-019, 505-151-012, 506-231-022

LOCATION: Foster Ave, Arcata, CA 95521	POI GPS COORDINATES: 40.881197, -124.100703
---	--

DRAWING TITLE:
ELECTRICAL SINGLE LINE DIAGRAM

AUTOCAD FILE NAME: 221114-RNA-FOSTA-EP	SHEET: SLD-FOSTA
PLOT FILE NAME: 221114-RNA-FOSTA-EP	PLOT DATE: 14-Nov-22
DRAWN BY: UR	CHECKED BY: NTS
SCALE: NTS	PLOT TIME: 09:54

APPENDIX A

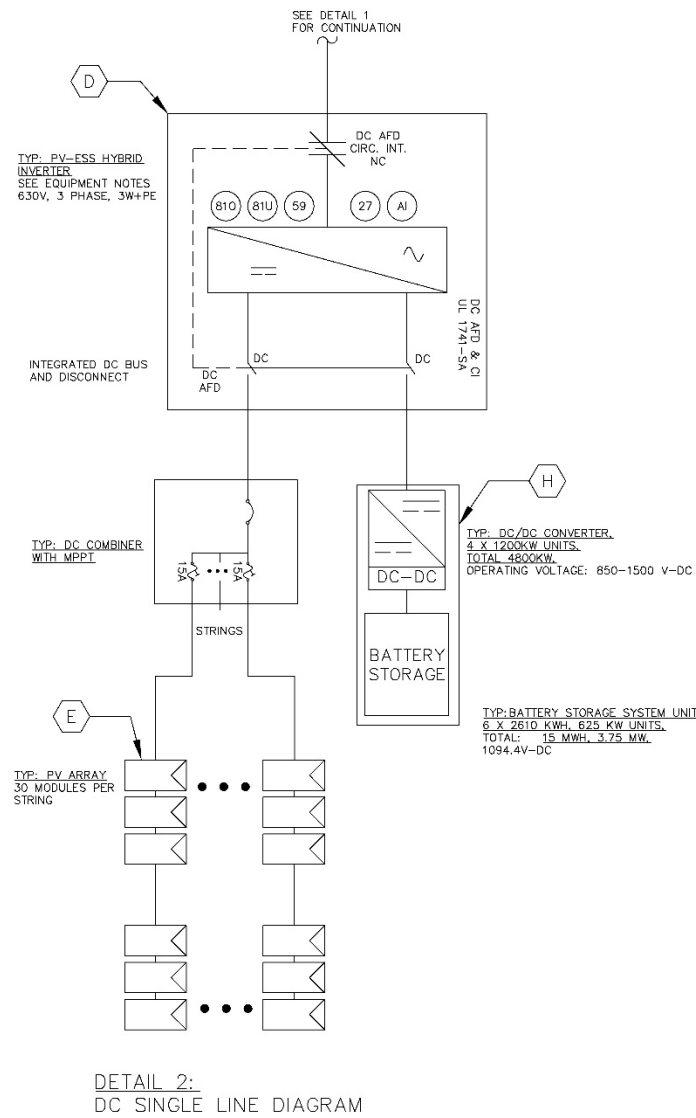
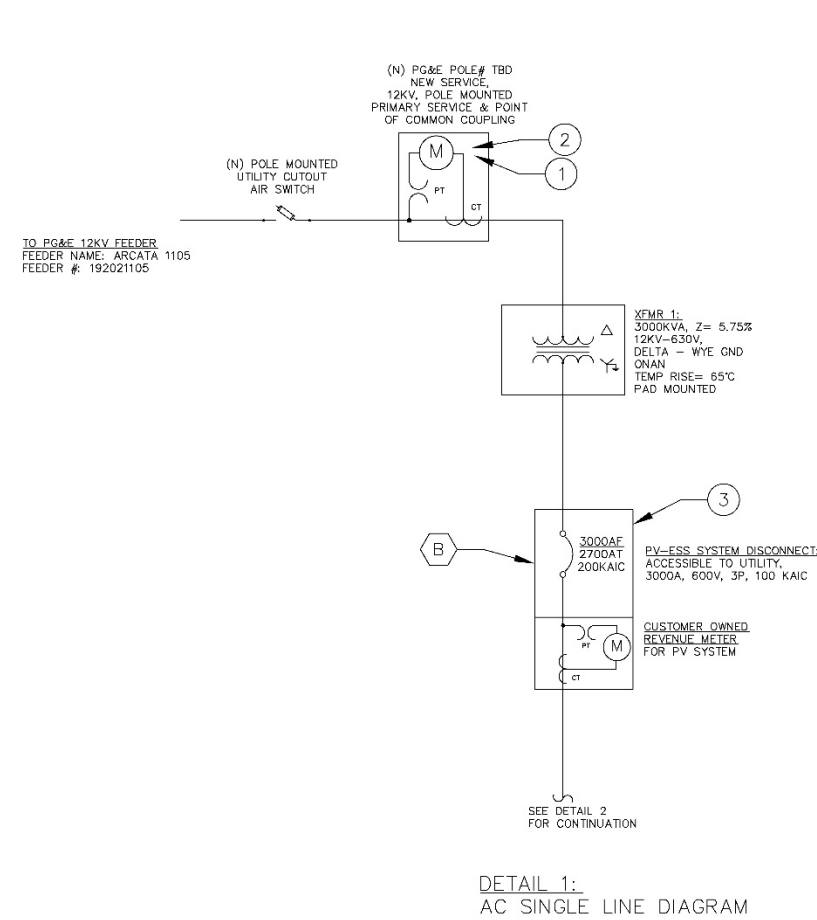
Figure A-10 Foster Clean Power B Single Line Diagram

EQUIPMENT NOTES:

- A. NOT USED .
- B. 3000A, 630V, 3P, 65KAIC, EATON MAGNUM DS CIRCUIT BREAKER. AS PV SYSTEM LOCKABLE DISCONNECT
- C. NOT USED.
- D. INV-1: 4000KW, 690V-AC, 3674A, 3φ, 3W CENTRAL HYBRID INVERTER TYPE, POWER ELECTRONICS FS4390K (1500V-DC MAX INPUT VOLTAGE), UL1741-SA CERTIFIED INVERTER MAX. OUTPUT POWER SHALL BE ELECTRONICALLY CURTAILED TO 4000KW-AC BY MANUFACTURER.
- E. (9,120) X MODULES: 650W, 1500V-DC, UL LISTED SOLAR PV MODULE, TYPE ASTROENERGY CHSM66M-HC.
- F. NOT USED.
- G. NOT USED.
- (6) X ENERGY STORAGE SYSTEM (ESS), DC-COUPLED, BYD CP32-B2800-U-R4M02/WVR , UL9540 CERTIFIED, 2610 KWH, 625KW, 1094.4V-DC.

KEY NOTES:

1. NEW SERVICE AND METERING SYSTEM (BY UTILITY).
2. POINT OF COMMON COUPLING (PCC). SYMMETRICAL FAULT CURRENT FROM PV SYSTEM AT PCC = 249.7A @ 12000V.
3. PROVIDE ACCESSIBLE LOCKABLE DISCONNECT AND PROTECTION DEVICE PER UTILITY INTERCONNECTION GUIDELINES TO ISOLATE GENERATING FACILITY FROM UTILITY DISTRIBUTION SYSTEM.
4. SYMMETRICAL FAULT CURRENT FROM PV SYSTEM AT PV SYSTEM DISCONNECT = 3,745A @ 630V.



RENEWABLE AMERICA LLC
4675 Stevens Creek Blvd, Ste 250
Santa Clara, CA 95051
TEL: 408-663-6647 X702
ADMIN@RENEWAM.COM

THIS DRAWING IS A COPYRIGHT PROPERTY OF RENEWABLE AMERICA LLC. IT MAY NOT BE REPRODUCED (IN WHOLE OR PART) FOR OTHER THAN THE PROJECT NAMED WITHOUT THE WRITTEN CONSENT OF RENEWABLE AMERICA LLC.

FOSTER CLEAN POWER B PV SYSTEM SPECS:

MODULE SPECIFICATION	
MANUFACTURER	ASTRO
PV MODULE MODEL	CHSM66M-HC
PV MODULE POWER (Pmax)	450
OPEN CIRCUIT VOLTAGE (Voc)	45.38
VOLTAGE TEMP. COEFF. (INVT)	0.35
INVERTER SPECIFICATION	
MANUFACTURER	POWER ELECTRONICS
INVERTER MODEL	FS4390K
MAX OUTPUT POWER (kW)	4000
AC OUTPUT CURRENT (A)	2000
MAX AC VOLTAGE (kV)	0.69
MAX INPUT CURRENT (A)	4000
MIN VOLTAGE START UP (V)	276
MAX INPUT VOLTAGE (V)	1500
PV SYSTEM SPECIFICATION	
DC SYSTEM SIZE (kW)	3360
TOTAL NUMBER OF MODULES	9020
# OF SYSTEMS (NUMBER OF INV)	4000
TOTAL NUMBER OF INVERTERS	1
LOADING FACTOR	1.36
INVERTER EFFICIENCY	11.3
PTC 3 STRING TRACKER CLAMPTN	43
PTC 2 STRING TRACKER CLAMPTN	76
TUBING ANGLE RANGE (°)	0°
BATTERY STORAGE SYSTEM SPECIFICATION	
MANUFACTURER	BYD
BYD MODEL#	CP32-B2800-U-R4M02/WVR
MAX DC OUTPUT CURRENT (A)	800
MAXIMUM VOLTAGE (VDC)	2084
BATTERY CAPACITY (kWh)	3610
OUTPUT POWER (kW)	305
DC CHARGE CURRENT (A)	2800
TOTAL BPS (BATT CLAMPTN)	6
10 YEAR LOSS POWER (MWh)	15.5
TOTAL BATT CAPACITY (kWh)	3360

NOTE: ELECTRICAL SINGLE LINE DIAGRAM IS NOT FOR CONSTRUCTION AND WILL BE UPDATED PRIOR TO CONSTRUCTION START

THIS DRAWING IS FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION.

NO.	REVISION / ISSUE	DATE
0.	E001	14-Nov-22

PROJECT NAME:
FOSTER CLEAN POWER A & B

PROPERTY OWNER:
Arcata Land Company LLC

PROPERTY OWNER CONTACT:
(707)-845-7721

PARCEL NUMBER:
506-231-019, 505-151-012, 506-231-022

LOCATION:
Foster Ave, Arcata, CA 95521

POI GPS COORDINATES:
40.881197, -124.100703

DRAWING TITLE:
ELECTRICAL SINGLE LINE DIAGRAM

AUTOCAD FILE NAME:
221114-RNA-FOSTA-EP

SHEET:
SLD-FOSTB

PLOT FILE NAME:
221114-RNA-FOSTA-EP

PLOT DATE:
14-Nov-22

DRAWN BY:
UR

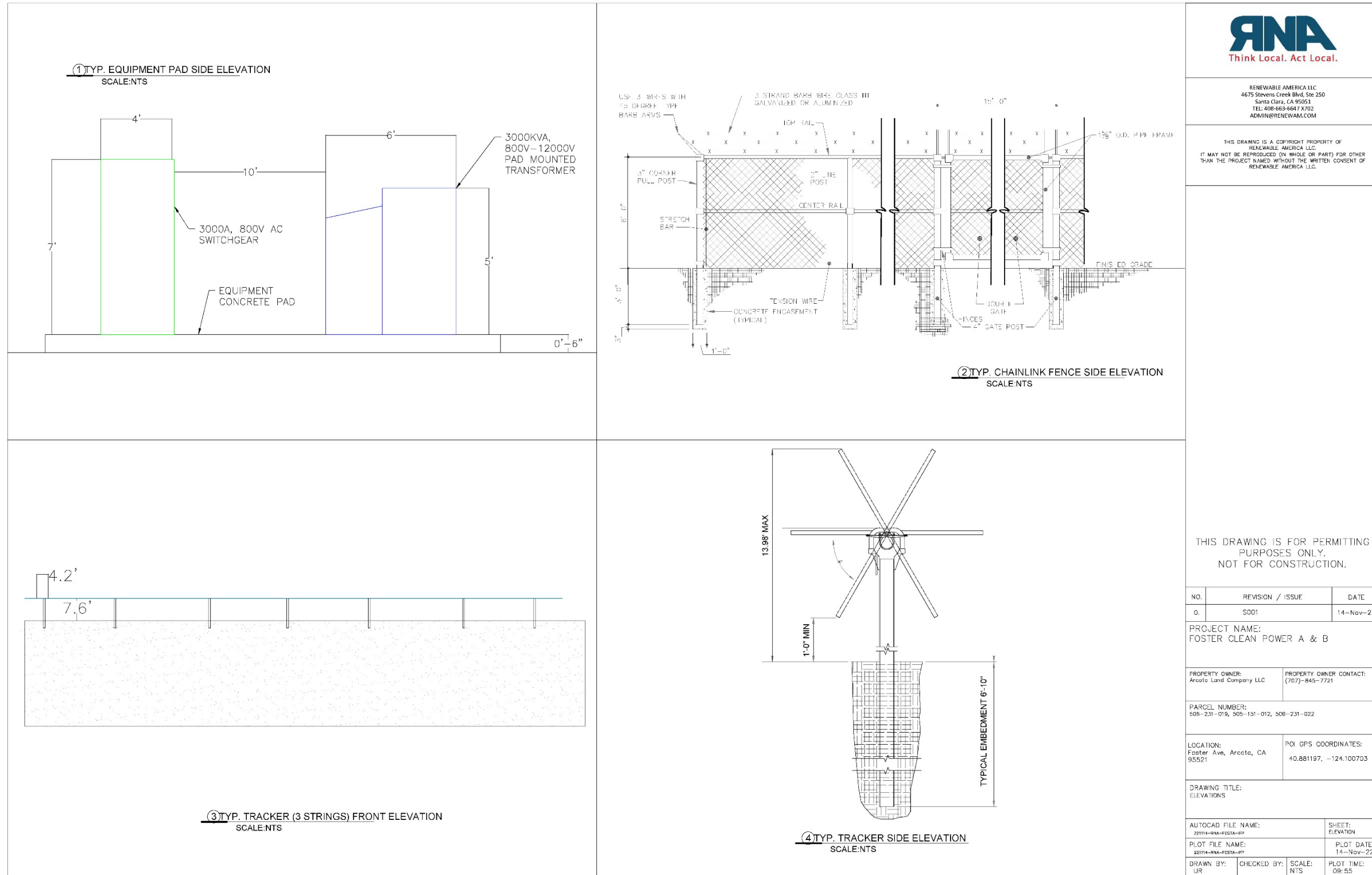
CHECKED BY:

SCALE:
NTS

PLOT TIME:
09:54

APPENDIX A

Figure A-11 Fence, Equipment Pad, and Solar Panel Diagrams



RENEWABLE AMERICA LLC
4675 Stevens Creek Blvd, Ste 250
Santa Clara, CA 95051
TEL: 408-663-6647 X702
ADMIN@RENEWAM.COM

THIS DRAWING IS A COPYRIGHT PROPERTY OF RENEWABLE AMERICA LLC. IT MAY NOT BE REPRODUCED (IN WHOLE OR PART) FOR OTHER THAN THE PROJECT NAMED WITHOUT THE WRITTEN CONSENT OF RENEWABLE AMERICA LLC.

THIS DRAWING IS FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION.

NO.	REVISION / ISSUE	DATE
0.	S001	14-Nov-22

PROJECT NAME:
FOSTER CLEAN POWER A & B

PROPERTY OWNER:
Arcata Land Company LLC

PROPERTY OWNER CONTACT:
(707)-845-7721

PARCEL NUMBER:
505-231-015, 505-131-012, 506-231-022

LOCATION:
Foster Ave, Arcata, CA 95521

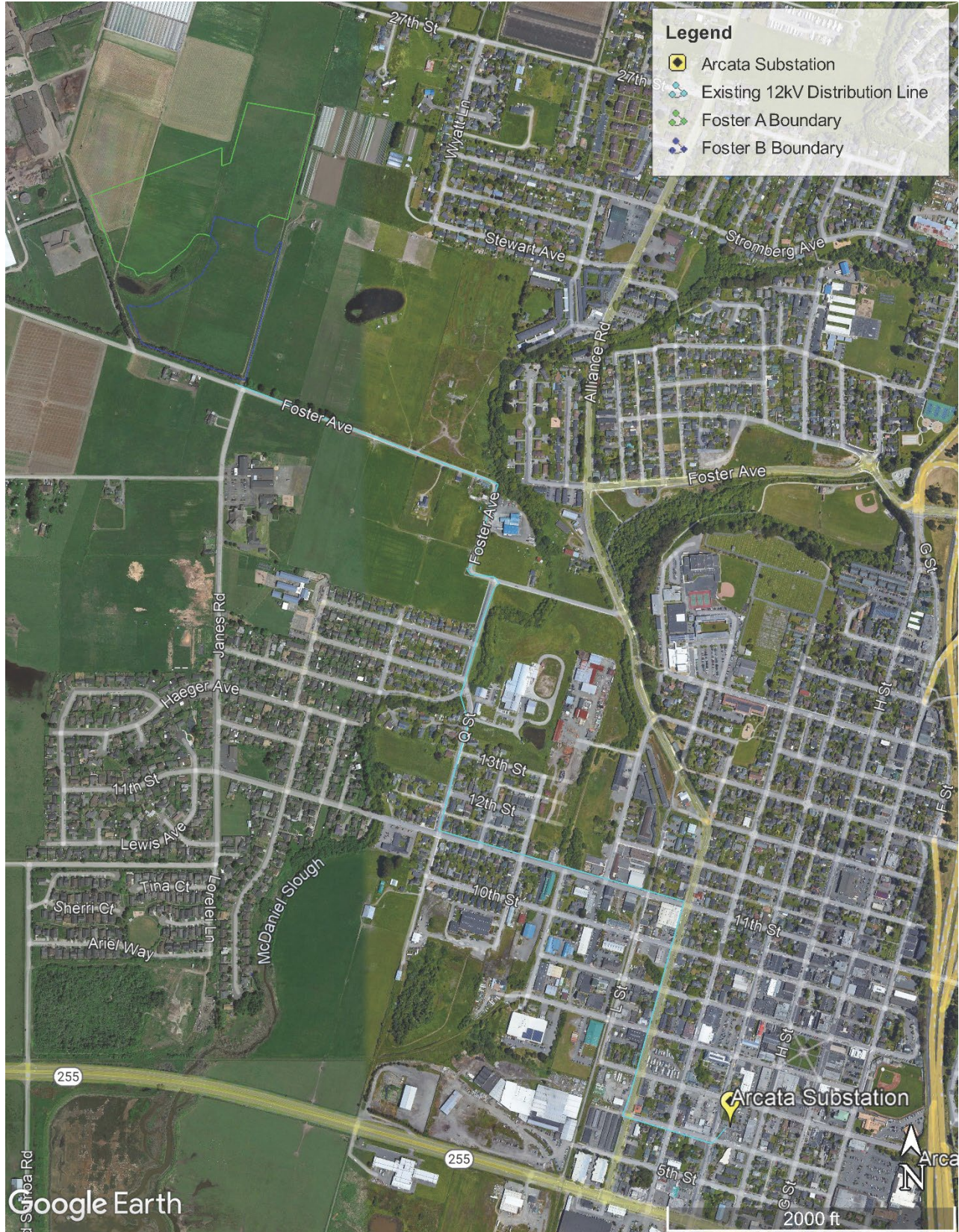
POI GPS COORDINATES:
40.881197, -124.100703

DRAWING TITLE:
ELEVATIONS

AUTOCAD FILE NAME: 22114-RNA-FOSTA-RP	SHEET: ELEVATION
PLOT FILE NAME: 22114-RNA-FOSTA-RP	PLOT DATE: 14-Nov-22
DRAWN BY: UR	CHECKED BY: NTS
SCALE: NTS	PLOT TIME: 09:55

APPENDIX A

Figure A-12 Existing Distribution Interconnection Route



APPENDIX A

Figure A-13 Drone Image 1 – North (April 15, 2021)



Figure A-14 Drone Image 2 – East (April 15, 2021)



APPENDIX A

Figure A-15 Drone Image 3 – South (April 15, 2021)



Figure A-16 Drone Image 4 – Southwest (April 15, 2021)



APPENDIX A

Figure A-17 Drone Image 5 – Southwest-West (June 10, 2021)



Figure A-18 Drone Image 6 – East (June 10, 2021)



APPENDIX A

Figure A-19 Example of a Battery Storage Unit and Equipment Housing



Figure A-20 Location of Anticipated Tree Removal on Foster Avenue

