CONSTRUCT DIRECT CURRENT FAST CHARGING STATIONS

MONTAUK AND ROARING RIVER STATE PARK
SALEM & CASSVILLE, MISSOURI

OWNER:
STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

DEPARTMENT OF NATURAL RESOURCES,
DIVISION OF STATE PARKS

PROJECT MANAGEMENT:
OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT
DESIGN AND CONSTRUCTION

APPLICABLE CODES:
2020 NATIONAL ELECTRICAL CODE
2021 INTERNATIONAL BUILDING CODE

DESIGNER:
CASCO DIVERSIFIED CORPORATION

PROJECT NUMBER:
X2222-01

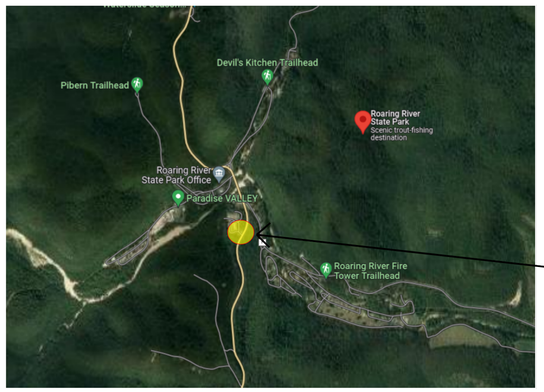
SITE NUMBER:
5307 (MONTAUK)
5309 (ROARING)

ASSET NUMBER:
7815307018 (MONTAUK)
7815309028 (ROARING)

CASCO
12 SUNNEN DR. SUITE 100
ST. LOUIS, MO 63143
ARCHITECTS / ENGINEERS
314-821-1100

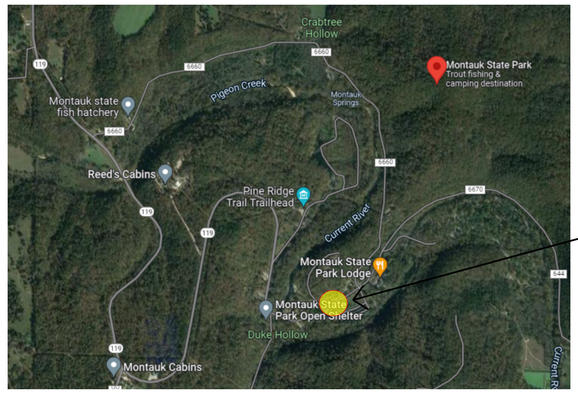
CASCO DIVERSIFIED CORPORATION
MISSOURI STATE CERTIFICATE OF AUTHORITY #000613 (ENG)

SHEET INDEX



ADDRESS:
24667 STATE HWY 112
CASSVILLE, MO 65625

ROARING RIVER STATE PARK



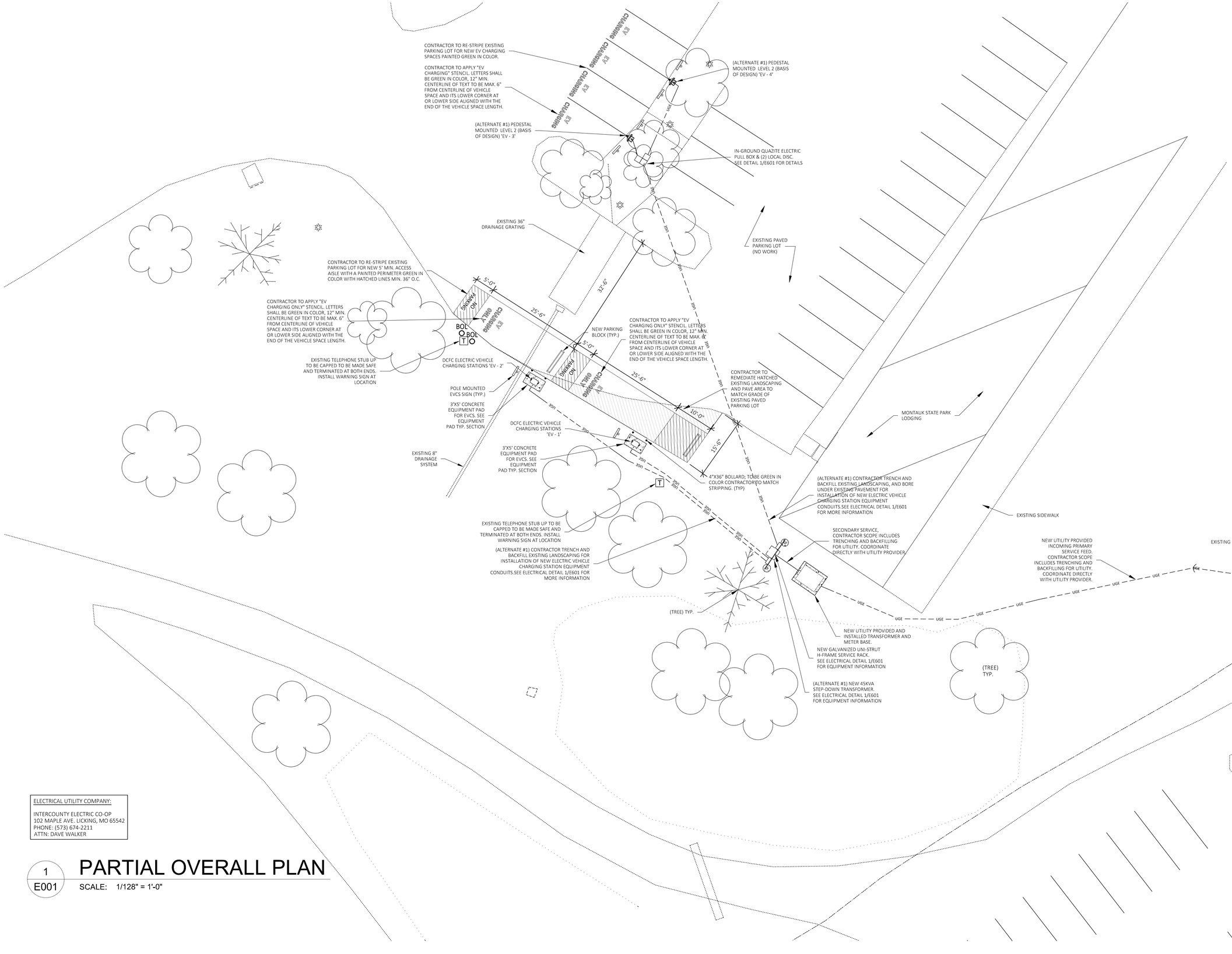
ADDRESS:
420 COUNTY RD 6670
SALEM, MO 65560

MONTAUK STATE PARK

VICINITY MAP

NORTH

SHEET NUMBER:
G-001



ELECTRICAL UTILITY COMPANY:

INTERCOUNTY ELECTRIC CO-OP
102 MAPLE AVE. LICKING, MO 65542
PHONE: (573) 674-2211
ATTN: DAVE WALKER

1
E001

PARTIAL OVERALL PLAN

SCALE: 1/128" = 1'-0"

STATE OF MISSOURI
MICHAEL L. PARSON, GOVERNOR

STATE OF MISSOURI
DAVID ANTHONY TRETTER
NUMBER E-21293
REGISTERED PROFESSIONAL ENGINEER
4/13/23

PROFESSIONAL SEAL
DAVID A. TRETTER
LICENSE: 021293
EXPIRES: 12/31/23

CASCO Diversified Corporation
MO Certificate of Authority #000613 Eng.

CASCO
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF NATURAL RESOURCES, STATE PARKS

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7815309028 (ROARING)

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 04/13/2023

CAD DWG FILE:
DRAWN BY: DM
CHECKED BY: DAT
DESIGNED BY: DM

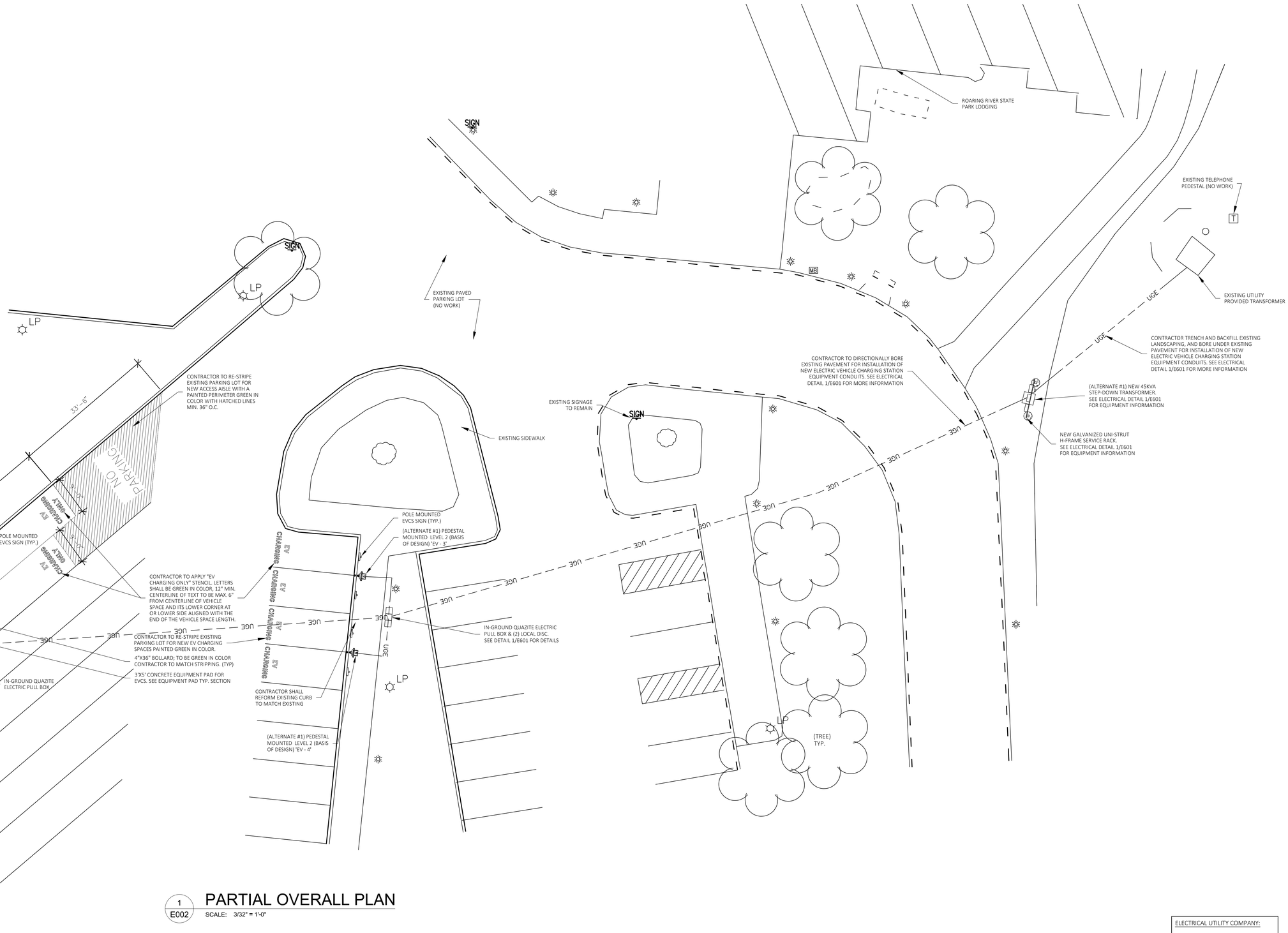
SHEET TITLE:

ELECTRICAL SITE PLAN - MONTAUK

SHEET NUMBER:

E-001

2 OF 5 SHEETS
APRIL 13, 2023



1 E002 PARTIAL OVERALL PLAN

SCALE: 3/32" = 1'-0"

ELECTRICAL UTILITY COMPANY:

BARRY ELECTRIC CO-OP
4015 MAIN ST. CASSVILLE, MO 65625
PHONE: (417) 847-2131

STATE OF MISSOURI
MICHAEL L. PARSON, GOVERNOR

STATE OF MISSOURI DAVID ANTHONY TRETTER NUMBER E-21293 REGISTERED PROFESSIONAL ENGINEER

4/13/23

PROFESSIONAL SEAL
DAVID A. TRETTER
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CAD DWG FILE:
DRAWN BY:
CHECKED BY:
DESIGNED BY:

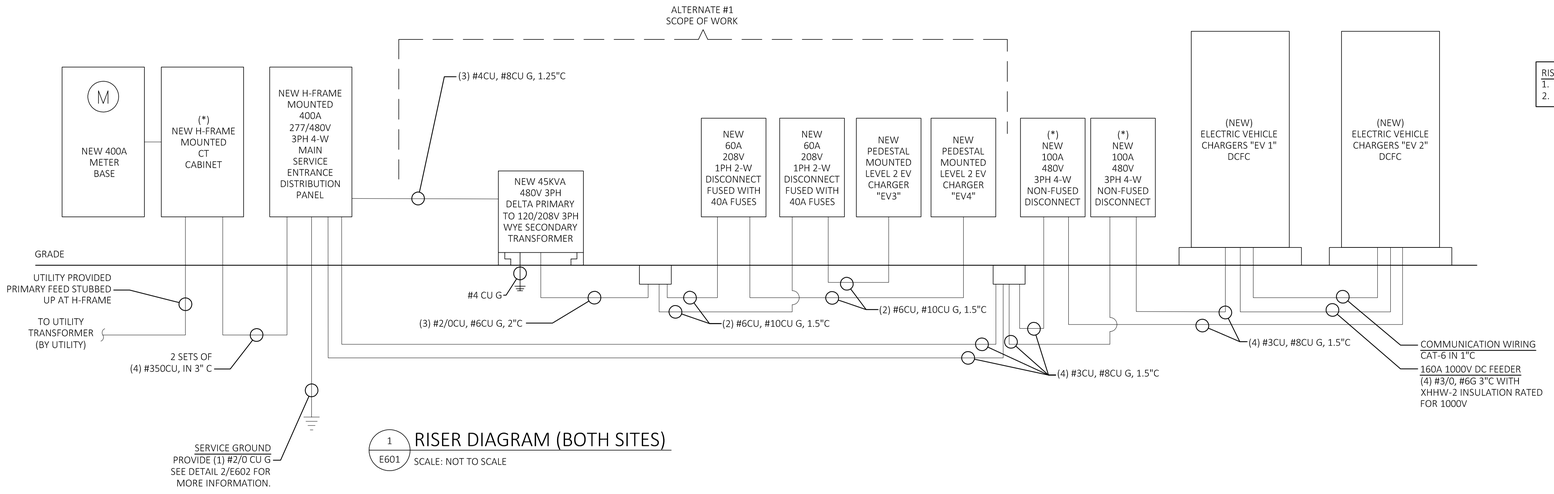
SHEET TITLE:

ELECTRICAL SITE PLAN - ROARING

SHEET NUMBER:

E-002

3 OF 5 SHEETS
APRIL 13, 2023



1 / E601 RISER DIAGRAM (BOTH SITES)
SCALE: NOT TO SCALE

RISER DIAGRAM NOTES:
1. ALL EQUIPMENT SHALL BE NEMA 3R RATED
2. ITEMS MARKED "(*)" ARE FOR ROARING RIVER SITE ONLY

UT. XFRM FAULT CALC		2202557.xlsm
SERVICE ENTRANCE		CALCULATION
VOLTAGE (L-L):	480V	I-FLA=[RATED KVA * 1000]/
PHASE (PH):	3	[V-LL*SQRT(PHASE)]
AMPS:	400A	
FULL LOAD KVA:	333KVA	I-FLA= 601A
TRANSFORMER:	500KVA	M=100/%Z= 76.9
IMPEDANCE (%Z):	1.3%Z	I-SC=I-FLA*M= 46.3 KA
CALCULATION IS BASED ON ESTIMATED TRANSFORMER SIZE WITH %Z FROM BUSSMANN SPD. CONTRACTOR SHALL CONTACT UTILITY AND VERIFY I-SC AVAILABLE AT SECONDARY OF TRANSFORMER. CONTACT ENGINEER FOR RE-CALCULATION IF LARGER THAN CALCULATED.		

MDP FEEDER FAULT CALC		2202557.xlsm
STARTING I-SC:	46 KA	IMPEDANCE BASED ON 3 SINGLE
VOLTAGE (L-L):	480V	CONDUCTORS IN NON-MAGNETIC
PHASE (PH):	3	CONDUIT (WORSE CASE)
FEEDER SIZE:	350	CALCULATION
FEEDER MATERIAL:	CU	f=[SQRT(PHASE)*L*IS-C]/
PARALLEL SETS (Q):	2 SETS	[Q*C*V-LL]
FEEDER LENGTH (L):	20FT	f= 0.073
FEET PER OHMS (C):	22,737 FT/OHMS	M=1/(1+f)= 0.932
		I-SC=I-SC*M= 43.1 KA
NOTE: CALCULATION BASED ON BUSSMANN SPD		

EV 1 FEEDER FAULT CALC		2202557.xlsm
STARTING I-SC:	43 KA	IMPEDANCE BASED ON 3 SINGLE
VOLTAGE (L-L):	480V	CONDUCTORS IN NON-MAGNETIC
PHASE (PH):	3	CONDUIT (WORSE CASE)
FEEDER SIZE:	3	CALCULATION
FEEDER MATERIAL:	CU	f=[SQRT(PHASE)*L*IS-C]/
PARALLEL SETS (Q):	1 SETS	[Q*C*V-LL]
FEEDER LENGTH (L):	35FT	f= 1.131
FEET PER OHMS (C):	4,811 FT/OHMS	M=1/(1+f)= 0.469
		I-SC=I-SC*M= 20.2 KA
NOTE: CALCULATION BASED ON BUSSMANN SPD		

EV 2 FEEDER FAULT CALC		2202557.xlsm
STARTING I-SC:	43 KA	IMPEDANCE BASED ON 3 SINGLE
VOLTAGE (L-L):	480V	CONDUCTORS IN NON-MAGNETIC
PHASE (PH):	3	CONDUIT (WORSE CASE)
FEEDER SIZE:	3	CALCULATION
FEEDER MATERIAL:	CU	f=[SQRT(PHASE)*L*IS-C]/
PARALLEL SETS (Q):	1 SETS	[Q*C*V-LL]
FEEDER LENGTH (L):	48FT	f= 1.552
FEET PER OHMS (C):	4,811 FT/OHMS	M=1/(1+f)= 0.392
		I-SC=I-SC*M= 16.9 KA
NOTE: CALCULATION BASED ON BUSSMANN SPD		

EV 3 FEEDER FAULT CALC		2202557.xlsm
STARTING I-SC:	20 KA	IMPEDANCE BASED ON 3 SINGLE
VOLTAGE (L-L):	480V	CONDUCTORS IN NON-MAGNETIC
PHASE (PH):	3	CONDUIT (WORSE CASE)
FEEDER SIZE:	3	CALCULATION
FEEDER MATERIAL:	CU	f=[SQRT(PHASE)*L*IS-C]/
PARALLEL SETS (Q):	1 SETS	[Q*C*V-LL]
FEEDER LENGTH (L):	48FT	f= 0.728
FEET PER OHMS (C):	4,811 FT/OHMS	M=1/(1+f)= 0.579
		I-SC=I-SC*M= 11.7 KA
NOTE: CALCULATION BASED ON BUSSMANN SPD		

EV 4 FEEDER FAULT CALC		2202557.xlsm
STARTING I-SC:	17 KA	IMPEDANCE BASED ON 3 SINGLE
VOLTAGE (L-L):	480V	CONDUCTORS IN NON-MAGNETIC
PHASE (PH):	3	CONDUIT (WORSE CASE)
FEEDER SIZE:	3	CALCULATION
FEEDER MATERIAL:	CU	f=[SQRT(PHASE)*L*IS-C]/
PARALLEL SETS (Q):	1 SETS	[Q*C*V-LL]
FEEDER LENGTH (L):	48FT	f= 0.608
FEET PER OHMS (C):	4,811 FT/OHMS	M=1/(1+f)= 0.622
		I-SC=I-SC*M= 10.5 KA
NOTE: CALCULATION BASED ON BUSSMANN SPD		

CONTROL	MOUNT: SURFACE		277/480			3-PHASE, 4W		PANEL MDP			CAPACITY: 400A			INT CAP: 65KA				CONTROL
	LOCATION: REFER TO SITE PLAN							LUGS: MCB			DEMAND LOAD: 245A			AV. FAULT: 43.1 KA				
	CKT	CONT	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	Φ	AMP	POLE	DESCRIPTION	CONT	REC	HVAC	MISC	NP	CKT	
		21.6					EV 1			A			EV 2	21.6						
	1	21.6						100	3	B	100	3		21.6					2	
		21.6								C				21.6						
		11.09					XFMR: T-1 SERV. EV 3&4			A										
	3	11.09					RATED 45 KVA	70	3	B		3	PROVISIONS						4	
		11.09					LOAD 33 KVA			C										

PHASE BALANCE			LOAD TYPE	CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
Φ	LOAD	%	CONTINUOUS	163.0 KVA	203.7 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
A	67.9 KVA	33%	REC	0.0 KVA	0.0 KVA	10KVA + 50% REMAINDER NEC 220.44	163.0 KVA	203.7KVA
B	67.9 KVA	33%	HVAC	0.0 KVA	0.0 KVA	LOAD X 80% (USED MCA IN CALCULATION)	196.0A	245.0A
C	67.9 KVA	33%	MISC	0.0 KVA	0.0 KVA	LOAD X 100% NEC 210.19 NON-CONT.	FILENAME:	
			NP	0.0 KVA	0.0 KVA	0 NONCOINCIDENTAL LOADS NEC 220.60	2202557.xlsm	

NOTES:
A. THIS IS THE BREAKER SCHEDULE OF THE NEW SERVICE ENTRANCE RATED MAIN DISTRIBUTION PANEL
B. ALL CIRCUIT BREAKERS TO BE FURNISHED WITH PADLOCKING AND SHUNT TRIP PROVISIONS

ABBREVIATIONS
(NOTE: NOT ALL ABBREVIATIONS ARE USED)

AFF	ABOVE FINISHED FLOOR	EVCS	ELECTRIC VEHICLE CHARGING STATION
AL	ALUMINUM	EWC	ELECTRIC WATER COOLER
AMP	AMPERE	EXIST'G	EXISTING
ATS	AUTO-TRANSFER-SWITCH	GFCI OR GFI	GROUND FAULT CURRENT INTERUPTER
BFG	BELOW FINISHED GRADE	GRS	GALVANIZED RIGID STEEL CONDUIT
BLDG	BUILDING	FL	FLOOR
CB	CIRCUIT BREAKER	FLUOR	FLUORESCENT
CKT	CIRCUIT	GND OR (G)	GROUND
CLG	CEILING	IG	ISOLATED GROUND
COND OR "C"	CONDUIT	JB	JUNCTION BOX
CONN	CONNECT	MCB	MAIN CIRCUIT BREAKER
CONT	CONTRACTOR	MDP	MAIN DISTRIBUTION PANEL
CU	COPPER	MLO	MAIN LUG ONLY
C/T	CURRENT TRANSFORMER	MTD HT	MOUNTING HEIGHT
DCFC	DIRECT CURRENT FAST CHARGING	NF	NON FUSED
DIM	DIMMER	NIC	NOT IN CONTRACT
DISC SW	DISCONNECT SWITCH	RTU	ROOF TOP UNIT
DP	DOUBLE POLE	SW	SWITCH
DT	DOUBLE THROW	UG	UNDER GROUND
DPP	DISTRIBUTION POWER PANEL	UNO	UNLESS NOTED OTHERWISE
EC	ELECTRICAL CONTRACTOR	VIF	VERIFY IN FIELD
EF	EXHAUST FAN	WP	WEATHER-PROOF
EM	EMERGENCY	XFMR	TRANSFORMER
EV	ELECTRIC VEHICLE		

EQUIPMENT SCHEDULE — FILE: 2202557.xlsm

PLAN MARK	EQUIPMENT SERVED	LOAD	VOLT/ PHASE	MCA	MOCPD	REMARKS
EV 1	ELECTRIC VEHICLE CHARGING STATION	64.85KVA	480/277/3	78.0A	100A	DCFC STATION WITH (2) POWER MODULES. EV CHARGERS TO BE EQUAL TO THE BASIS OF DESIGN. EVCS INPUT SHALL MATCH MCA.
EV 2	ELECTRIC VEHICLE CHARGING STATION	64.85KVA	480/277/3	78.0A	100A	DCFC STATION WITH (2) POWER MODULES. EV CHARGER TO BE EQUAL TO BASIS OF DESIGN. EVCS INPUT SHALL MATCH MCA.
EV 3	ELECTRIC VEHICLE CHARGING STATION	8.32KVA	208/1	40.0A	50A	LEVEL 2 EV CHARGER TO BE EQUAL TO BASIS OF DESIGN. EVCS INPUT SHALL MATCH MCA.
EV 4	ELECTRIC VEHICLE CHARGING STATION	8.32KVA	208/1	40.0A	50A	LEVEL 2 EV CHARGER TO BE EQUAL TO BASIS OF DESIGN. EVCS INPUT SHALL MATCH MCA.

ALTERNATE #1
SCOPE OF WORK

STATE OF MISSOURI
MICHAEL L. PARSON, GOVERNOR

DAVID ANTHONY TRETTER NUMBER E-21293 REGISTERED PROFESSIONAL ENGINEER STATE OF MISSOURI
4/13/23

PROFESSIONAL SEAL
DAVID A. TRETTER
LICENSE: 021293
EXPIRES: 12/31/23

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MO Certificate of Authority #000613 Eng.

CASCO
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CONSTRUCT DIRECT CURRENT FAST CHARGING STATIONS

ROARING RIVER STATE PARK
MONTAUK STATE PARK

PROJECT # X2222-01
SITE # 5307 (MONTAUK)
5309 (ROARING)
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REVISION: DATE:
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ISSUE DATE: 04/13/2023

CAD DWG FILE:
DRAWN BY: DM
CHECKED BY: DAT
DESIGNED BY: DM

SHEET TITLE:
ELECTRICAL SCHEDULE - MONTAUK & ROARING RIVER

SHEET NUMBER:
E-601

CONTRACTOR RESPONSIBILITIES:

1. CONTRACTOR MAY ONLY UTILIZE ONE MANUFACTURER FOR BOTH SITES WHEN SELECTING CHARGING STATIONS. CHARGEPOINT IS THE BASIS OF DESIGN, BUT THE CONTRACTOR MAY SELECT ANOTHER MANUFACTURER AS IDENTIFIED IN THE SPECIFICATIONS. THIS IS NOT A SOLE SOURCE PROJECT. IT IS IMPERATIVE THAT ONE MANUFACTURER IS UTILIZED FOR ALL SITES TO ALLOW THE STATE ONE SOLE CONTACT FOR MAINTENANCE, SYSTEM UPGRADES, AND PAYMENT FOR CHARGING. NO EXCEPTIONS.
2. CONTRACTOR WILL BE RESPONSIBLE FOR DIRECT COORDINATION AND COMMUNICATION WITH THE CHARGING STATION MANUFACTURER FROM START TO FINISH TO ENSURE WARRANTIES ARE IN PLACE, SYSTEM IS ONLINE (IN COORDINATION WITH STATE IT), PAYMENT SYSTEM AND APPLICATIONS ARE READY FOR USE, COMPLETE INSTALLATION OF ALL EQUIPMENT, MANUFACTURER COMMISSIONING/CERTIFICATION OF UNITS, TRAINING OF TATE PERSONNEL WITH STEP BY STEP INSTRUCTIONS DOCUMENTED, AND TROUBLE SHOOTING GUIDE.
3. COORDINATION WITH STATE PERSONNEL IS CRITICAL TO ASSURE SUCCESS ON THIS PROJECT. WHICH MAY INCLUDE BUT ARE NOT LIMITED TO: DIRECTIONAL SIGNAGE AND CHARGING STATION SIGNAGE PLACEMENT. NETWORK COORDINATION WITH STATE INFORMATION TECHNOLOGY GROUP, AND REGULAR COMMUNICATION WITH STATE CONSTRUCTION MANAGER AND PARKS STAFF.
4. CHARGING STATIONS WILL CONNECT TO STATE PROVIDED WIRELESS INTERNET (LOCATED WITHIN THE FACILITY AT EACH LOCATION (OR AT A LOCATION DETERMINED BY STATE IT). HARDWIRED INTERNET CONNECTION IS NOT PROPOSED TO EACH CHARGING STATION.

GENERAL NOTES (ALL SHEETS):

1. ALL WORK SHOWN SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR, UNO.
2. BEFORE SUBMITTING THE BID PROPOSAL, CONTRACTOR SHALL VISIT THE JOB SITE AND FULLY ACQUAINT THEMSELVES WITH THE JOB CONDITIONS AND VERIFY SERVICE CONNECTION.
3. COORDINATE UNDERGROUND ROUTING. INCLUDING ALL NECESSARY PULL BOXES, SIZE AND NUMBER OF CONDUITS, CONDUCTORS, AND SWITCHGEAR TO MAKE A COMPLETE AND OPERATING ELECTRICAL SERVICE WITHOUT ADDITIONAL COST TO THE OWNER.
4. ELECTRICAL WORK AND MATERIALS SHALL COMPLY WITH '20 NEC AND ALL STATE CODES AND ORDINANCES. (IN THE CASE OF CONFLICT AMONG REQUIREMENTS, THE MORE RESTRICTIVE SHALL APPLY.)
5. ALL SPECIFIED MANUFACTURER'S ARE PER A BASIS OF DESIGN AND CAN BE REPLACED WITH APPROVED EQUIVALENTS.

ALTERNATE #1: CONTRACTOR SHALL PROCURE AND INSTALL LEVEL 2 CHARGING STATIONS AT EACH STATE PARK AS NOTED ON THE SITE PLANS. ALL WORK UNDER ALTERNATE #1 SHALL INCLUDE STEP DOWN TRANSFORMER, CONNECTIONS, UNDERGROUND CONDUIT AND WIRE, SITE WORK, TRENCHING, CONCRETE, PAINTING OF STALLS, AND SIGNAGE. A COMPLETE INSTALLATION FROM TRANSFORMER TO PARKING SPACES TO ALLOW FOR FULL USE OF EQUIPMENT AND PARKING SPACES.

GENERAL GROUNDING NOTES:

A. FULL SIZE GROUND MEANS THAT GROUND CONNECTOR SIZE SHALL BE AS SHOWN ON SERVICE EQUIPMENT ON THE POWER RISER DIAGRAM.

B. AFTER GROUNDING SYSTEM IS INSTALLED, GROUND RESISTANCE SHALL BE MEASURED, TO ASSURE THAT GROUND VALUE OF 15 OHM MAXIMUM RESISTANCE IS ACHIEVED. IF NOT, ADDITIONAL GROUNDING SHALL BE PROVIDED TO MEET THE SPECIFIC VALUE.

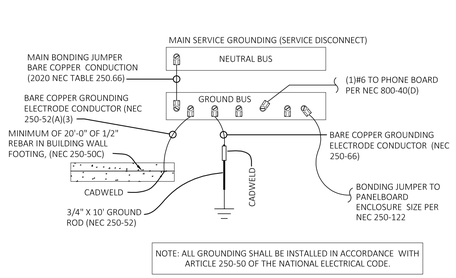
C. ALL CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC WELD CONNECTIONS

D. TOP OF GROUND ROD SHALL BE 12" (MINIMUM) BELOW GRADE. PROVIDE NON-METALIC INSPECTION WELL WITH REMOVABLE COVER.

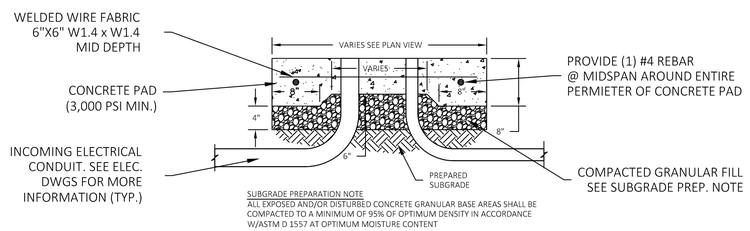
E. GROUND CONNECTOR SHALL BE LOCATED WITHIN OR NEAR BOTTOM OF CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, AND SHALL CONSIST OF AT LEAST 20 FEET OF ONE OR MORE STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2 INCH DIAMETER OR OF AT LEAST 20 FEET OF BARE COPPER CONDUCTOR.

F. SEE THE RISER DIAGRAM DETAIL 1/E601 FOR THE SIZE OF THE MAIN BONDING JUMPER AND BARE COPPER GROUNDING ELECTRODE CONDUCTORS.

G. NOT ALL GROUNDING OPTIONS MAY APPLY. CONTRACTOR TO VERIFY AVAILABLE GROUNDING METHODS.

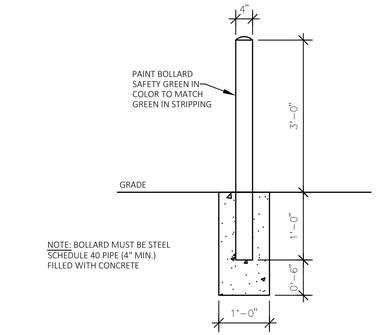


1 / E602 GROUNDING DETAIL
SCALE: NOT TO SCALE

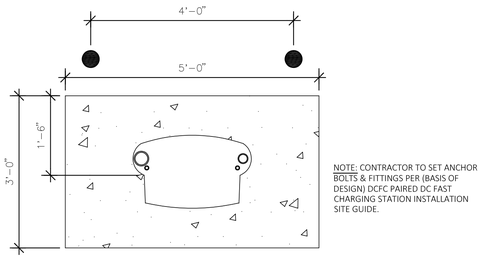


SUBGRADE PREPARATION NOTE
ALL EXPOSED AND/OR DISTURBED CONCRETE GRANULAR BASE AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF OPTIMUM DENSITY IN ACCORDANCE W/ASTM D 1557 AT OPTIMUM MOISTURE CONTENT

2 / E602 EV CONC. PAD & EQUIPMENT PAD TYPICAL SECTION
SCALE: NOT TO SCALE



NOTE: BOLLARD MUST BE STEEL SCHEDULE 40 PIPE (4" MIN.) FILLED WITH CONCRETE



NOTE: CONTRACTOR TO SET ANCHOR BOLTS & FITTINGS PER (BASIS OF DESIGN) DCFC PAIRED DC FAST CHARGING STATION INSTALLATION SITE GUIDE.

3 / E602 EV EQUIPMENT PAD/BOLLARD DIMENSIONS
SCALE: NOT TO SCALE

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SHEET TITLE:

DETAILS - MONTAUK & ROARING RIVER

SHEET NUMBER:
E-602

5 OF 5 SHEETS
APRIL 13, 2023