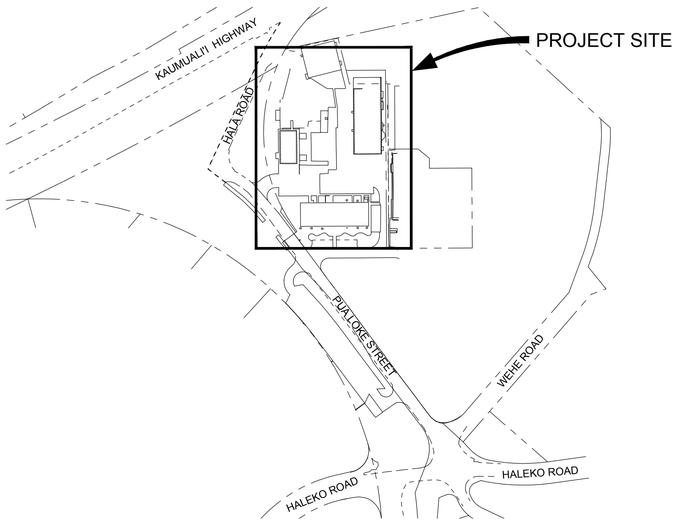
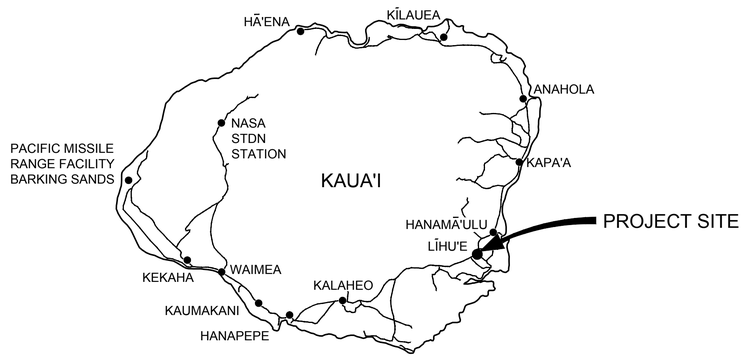
COUNTY OF KAUA'I
DEPARTMENT OF WATER

LĪHU'E BASEYARD ELECTRICAL RELOCATION
TAX MAP KEY: (4) 3-8-005: 013



LOCATION MAP
SCALE: NTS



VICINITY MAP
SCALE: NTS

DRAWING INDEX

SHEET NO	DRAWING NO	DESCRIPTION
GENERAL		
1	G-001	COVER, LOCATION & VICINITY MAPS, AND DRAWING INDEX
2	G-002	GENERAL ABBREVIATIONS
3	G-003	GENERAL LEGEND
4	G-004	GENERAL NOTES
CIVIL		
5	C-001	CIVIL LEGEND
6	C-100	SITE PLAN, DETAIL AND EROSION AND SEDIMENT CONTROL PLAN
7	C-500	EROSION AND SEDIMENT CONTROL DETAILS AND NOTES
ELECTRICAL		
8	E-001	ELECTRICAL SYMBOLS AND GENERAL NOTES
9	E-002	DUCT SECTION DETAILS
10	E-100	ELECTRICAL SITE PLAN
11	E-200	ENLARGED ELECTRICAL PLAN (MICRO-LAB BUILDING)
12	E-300	ONE-LINE DIAGRAMS

APPROVAL

Jason Kagimoto
FOR MANAGER AND CHIEF ENGINEER, DEPARTMENT OF WATER
COUNTY OF KAUA'I

10/17/24
DATE

Kennedy Jenks

ISSUED FOR BID

ANY PRINTS NOT BEARING THIS STAMP MAY HAVE BEEN PRINTED PRIOR TO ADVERTISING AND CANNOT BE CONSIDERED AS BID DOCUMENTS. USERS OF THIS DOCUMENT IN EDITABLE ELECTRONIC FORMATS ARE CAUTIONED AGAINST USE WITHOUT FIRST DETERMINING WHETHER CHANGES MAY HAVE BEEN MADE SUBSEQUENT TO ITS PREPARATION.

NO	REVISION	DATE	BY

SCALES
0 ——— 1"
0 ——— 25mm
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

JON Y. HONDA
LICENSED PROFESSIONAL ENGINEER
No.14441-C
HAWAII, U.S.A.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
APRIL 30, 2024
EXPIRATION DATE OF THE LICENSE

DESIGNED: JYH
DRAWN: CBD
CHECKED: SKK

COUNTY OF KAUA'I
DEPARTMENT OF WATER
LĪHU'E BASEYARD ELECTRICAL RELOCATION
Kennedy Jenks

COVER, LOCATION & VICINITY MAPS, AND DRAWING INDEX

SCALE: NTS
JOB NO: 2367009.01
DATE: MARCH 2024
SHEET 1 OF 12
G-001

ABBREVIATIONS

'	FOOT, FEET
"	INCH, INCHES
#	POUND, NUMBER
%	PERCENT
&	AND
@	AT
±	APPROXIMATELY
℄	CENTERLINE
℔	PLATE
<	LESS THAN
=	EQUALS
>	GREATER THAN
Δ	DEFLECTION
∠	ANGLE
°	DEGREE(-S) (ANGULAR)
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS
AB	AGGREGATE BASE, ANCHOR BOLT(-S)
ABAN(-D)	ABANDON(-ED)
ABS	ACRYLONITRILE-BUTADIENE-STYRENE
AC	ASPHALTIC CONCRETE
ACP	ASBESTOS CEMENT PIPE
ADA	AMERICANS WITH DISABILITIES ACT
ADDIT	ADDITIONAL
ADJ	ADJUST(-ED,-MENT,-ABLE)
ADWF	AVERAGE DRY WEATHER FLOW
AF	ACRE-FEET
AGG	AGGREGATE
ALTD	ALTITUDE
ALUM	ALUMINUM
ANC	ANCHOR
APPROX	APPROXIMATE(-LY)
ARCH	ARCHITECT(-URAL)
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASPH	ASPHALT
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVE	AVENUE
AVG	AVERAGE
AWT	ADVANCED WATER TREATMENT
AWWA	AMERICAN WATER WORKS ASSOCIATION
B/W	BOTTOM OF WALL
BC	BEGINNING OF HORIZONTAL CURVE
BCR	BEGIN CURB RETURN
BF	BLIND FLANGE
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BLK	BLOCK(-S)
BM	BENCH MARK
BO	BLOWOFF
BOC	BACK OF CURB
BOT	BOTTOM
BVC	BEGINNING OF VERTICAL CURVE
C	CURVE
C/C	CENTER-TO-CENTER
CALC(S)	CALCULATION(S)
CATV	CABLE TV
CB	CATCH BASIN
CEM	CEMENT
CFS	CUBIC FEET PER SECOND
CHAN	CHANNEL
CI	CAST IRON
CIP	CAST IRON PIPE
CISP	CAST IRON SOIL PIPE
CJ	CONSTRUCTION JOINT
CLR	CLEAR(-ANCE)
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CMC	CEMENT MORTAR COATED
CML	CEMENT MORTAR LINED
CML&C	CEMENT MORTAR LINED AND COATED
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CNJ	CONTROL JOINT
CNTR	CENTER
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECT (-ED, -S, -ION)
CONST	CONSTRUCTION
CONT	CONTINU(-ED, -OUS, -ATION)
CORP	CORPORATION
COTG	CLEANOUT TO GRADE
CP	CONTROL POINT, CATHODIC PROTECTION
CPLG	COUPLING
CPVC	CHLORINTATED POLYVINYL CHLORIDE
CR	CRUSHED ROCK
CTRL	CONTROL
CTS	CATHODIC TEST STATION
CU FT	CUBIC FOOT, CUBIC FEET
CU YD	CUBIC YARD(-S)
DCA	DOUBLE CHECK ASSEMBLY (TWIN ELEMENT CHECK VALVE)
DEFL	DEFLECTION
DEG	DEGREE(-S)
DEMO	DEMOLISH
DEPT	DEPARTMENT
DI	DUCTILE IRON, DROP INLET
DIA	DIAMETER
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIM(-S)	DIMENSION(-S)
DIP	DUCTILE IRON PIPE
DISCH	DISCHARGE
DISTR	DISTRIBUTION
DL	DEAD LOAD
DN	DOWN
DO	DISSOLVED OXYGEN
DR	DRAIN
DS	DOWN SPOUT
DTL(-S)	DETAIL(-S)
DWG(-S)	DRAWING(-S)
E	EAST
EA	EACH
EC	END OF HORIZONTAL CURVE
ECC	ECCENTRIC
ECD	EPOXY COATED
ECR	END CURB RETURN
EF	EACH FACE
EFFIC	EFFICIENCY
EFFL	EFFLUENT
EG	EXISTING GRADE
EGL	ENERGY GRADE LINE
EL	ELEVATION, EPOXY LINED
EL&C	EPOXY LINED AND COATED
ELEC	ELECTRIC(-AL)
ELL	ELBOW
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EP	EDGE OF PAVEMENT
EPA	ENVIRONMENTAL PROTECTION AGENCY
EQ	EQUAL (-LY, -IZATION)
EQPM	EQUIPMENT
EST	ESTIMATE(-D)
ETC	ET CETERA
ETS	ELECTROLYSIS TEST STATION
EVC	END OF VERTICAL CURVE
EW	EACH WAY
EXC	EXCAVATE
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERNAL
FAC	FACTORY
FACIL	FACILIT(-Y, -IES)
FC	FLEXIBLE COUPLING
FCA	FLANGE COUPLING ADAPTER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDR	FEEDER
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FIG	FIGURE
FIN	FINISH(-ED)
FL	FLOW LINE
FLEX	FLEXIBLE
FLG	FLANGE(-D)
FLOC	FLOCCULATION
FLR	FLOOR
FM	FLOW METER
FO	FIBER OPTIC
FPS	FEET PER SECOND
FRP	FIBERGLASS REINFORCED PLASTIC
FS	FINISHED SURFACE
FT	FOOT, FEET
FTG	FOOTING
FUT	FUTURE
GA	GAUGE
GAC	GRANULAR ACTIVATED CARBON
GAL	GALLON(-S)
GALV	GALVANIZED
GAS	GASOLINE
GB	GRADE BREAK
GI	GALVANIZED IRON
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPR	GROUND-PENETRATING RADAR
GR	GRATE
GRL	GUARDRAIL
GS	GALVANIZED STEEL
H	HIGH, HEIGHT
H2O2	HYDROGEN PEROXIDE
H2S	HYDROGEN SULFIDE
H2SO4	SULFURIC ACID
HB	HOSE BIB
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
HH	HANDHOLE
HM	HOLLOW METAL
HORZ	HORIZONTAL
HP	HORSEPOWER
H-P	HINGE POINT
HPT	HIGH POINT
HR(S)	HOUR(-S)
HT	HEIGHT
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HWL	HIGH WATER LEVEL
HWY	HIGHWAY
HYD	HYDRAULIC
I&C	INSTRUMENTATION AND CONTROL
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH(-ES)
INFL	INFLUENT
INSTR	INSTRUMENT(-ATION)
INV	INVERT
IPS	IRON PIPE SIZE
IRRG	IRRIGATION
ISO	ISOLAT(-E, -ION)
IX	ION EXCHANGE
JB	JUNCTION BOX
JT	JOINT
L	LENGTH, LINE
LAT	LATERAL
LB(-S)	POUND(-S)
LB(-S)/SF	POUND(-S) PER SQUARE FOOT
LF	LINEAR FEET
LG	LONG
LIP	LIP OF GUTTER
LL	LIVE LOAD
LOC	LOCATION
LP	LOW POINT
LPG	LIQUIFIED PETROLEUM GAS (PROPANE OR BUTANE AS NOTED)
LR	LONG RADIUS
LT	LEFT TURN
LTG	LIGHTING
LWL	LOW WATER LEVEL
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MF	MICROFILTRATION
MFR	MANUFACTURER
MG	MILLION GALLON(-S)
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MIL(-S)	ONE-THOUSANDTH OF AN INCH
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MOD(-S)	MODIF(-Y, -ICATIONS)
MON	MONUMENT
MPH	MILES PER HOUR
MSE	MECHANICALLY STABILIZED EARTH
MT(-D, -G)	MOUNT(-ED, -ING)
MTL	METAL
N	NORTH
N/A	NOT APPLICABLE
NAD	NORTH AMERICAN DATUM
NAOCL	SODIUM HYPOCHLORITE
NAOH	SODIUM HYDROXIDE
NAVD	NORTH AMERICAN VERTICAL DATUM
NE	NORTHEAST
NF	NANOFILTRATION
NFC	NOT FOR CONSTRUCTION
NG	NATURAL GAS
NH3	AMMONIA
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NORM	NORMAL
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
NW	NORTHWEST
NWL	NORMAL WATER LEVEL
O3	OZONE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OVERFLOW
OG	ORIGINAL GROUND
OPNG(-S)	OPENING(-S)
ORIG	ORIGINAL
P	PNEUMATIC, PIPE
P/L	PROPERTY LINE
PACP	PERFORATED ASBESTOS CEMENT PIPE
PC(-S)	PIECE(-S) PHOTOCELL, POINT OF CURVE (BEGIN CURVE)
PCC	POINT OF COMPOUND CURVE
PCCP	PRETENSIONED CONCRETE CYLINDER PIPE
PCO	PRESSURE CLEANOUT
PCOTG	PRESSURIZED CLEANOUT TO GRADE
PE	POLYETHYLENE
PERC	PERCOLAT(-E, -ION)
PERF	PERFORAT(-E, -ED, -ES, -ATION)
PF	PROFILE
PI	POINT OF INTERSECTION
PM	PROJECT MANAGER
POT	POTABLE
PP	POWER POLE
PR	PAIR
PRESS	PRESSURE
PROP	PROPERTY
PROT	PROTECT(-OR)
PRV	PRESSURE RELIEF VALVE, PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PIPE SLEEVE
PSTA	PUMP STATION
PSV	PRESSURE SUSTAINING VALVE
PT(-S)	POINT OF TANGENT (END CURVE), PRESSURE-TREATED, POINT(-S)
PVC	POLYVINYL CHLORIDE, POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENCY
PW	POTABLE WATER
PWR	POWER
PWWF	PEAK WET WEATHER FLOW
R, RAD	RADIUS
R/W	RIGHT OF WAY
RCCP	REINFORCED CONCRETE CYLINDER PIPE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RED	REDUCE(-R)
REG	REGULAT(-E, -OR, -ION, -ING)
REINF	REINFORC(-E, -ED, -ING, -EMENT)
REQD	REQUIRED
REQT	REQUIREMENT
RESIL	RESILIENT
RESV	RESERVOIR
RM	ROOM
RND	ROUND
RO	REVERSE OSMOSIS
RPP	REDUCED PRESSURE PRINCIPLE
RR	RAILROAD
RT	RIGHT TURN
RTE	ROUTE
RTN	RETURN
S	SEWER, SOUTH
S/W	SIDEWALK
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SE	SOUTHEAST
SECT	SECTION
SGNL	SIGNAL
SHT	SHEET
SI	SIDE INLET
SIM	SIMILAR
SPC(-S, -D)	SPACE(-S, -D)
SPEC(-S)	SPECIFICATION(-S)
SQ	SQUARE
SQ FT	SQUARE FEET
SQ MI	SQUARE MILES
SS	STAINLESS STEEL, SANITARY SEWER
ST	STREET
STA	STATION
STD(-S)	STANDARD(-S)
STL	STEEL
STM	STEAM
STRC	STRUCTUR(-E, -AL)
SUPP	SUPPORT(-S)
SURF	SURFACE
SW	SOUTHWEST
SYM	SYMMETRICAL
SYS	SYSTEM
T&B	TOP AND BOTTOM
T/C	TOP OF CONCRETE
T/P	TOP OF PAVEMENT
T/S	TOP OF STEEL
T/W	TOP OF WALL
T-_-P	TYPE _____ PIPE
T-_-S	TYPE _____ SUPPORT
TAN	TANGENT(-IAL)
TBM	TEMPORARY BENCHMARK, TUNNEL BORING MACHINE
TDH	TOTAL DYNAMIC HEAD
TEL	TELEPHONE
TEMP	TEMPERATURE, TEMPORARY
THK	THICK(-ENED, -ENER, -NESS)
THRU	THROUGH
TNK	TANK
TOPO	TOPOGRAPHY
TOT	TOTAL, TOTALIZE(R)
TP	TEST PIT
TRTMT	TREATMENT
TYP	TYPICAL
UD	UNDERDRAIN
UF	ULTRAFILTRATION
UG	UNDERGROUND
UNKN	UNKNOWN
UV	ULTRAVIOLET
VAR	VARIES, VARIABLE
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE (AC)
VIF	VERIFY IN FIELD
VOL	VOLUME
VPI	VERTICAL POINT OF INTERSECTION
VT	VENT
VTP	VERTICAL TURBINE PUMP
VTR	VENT TO ROOF
W	WIDE, WIDTH, WELDED, WEST
W/	WITH
W/O	WITHOUT
WB	WATER BAR
WCO	WALL CLEANOUT
WD	WOOD
WMH	WATER MANHOLE
WP	WATERPROOF
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
WSTP	WATERSTOP
WT	WEIGHT
WTP	WATER TREATMENT PLANT
WTR	WATER
WV	WATER VALVE
WW	WASTEWATER
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
WWTP	WASTEWATER TREATMENT PLANT
XFMR	TRANSFORMER
YD	YARD
YR	YEAR

PROJECT-SPECIFIC

CL	CHAIN LINK
D	DIAMETER, DRAIN
GP	GUARD POST/GUY POLE/GATE POST
GW	GUY WIRE
ICV	IRRIGATION CONTROL VALVE
MSL	MEAN SEA LEVEL
SMH	SEWER MANHOLE
TOP	TOP OF PIPE
UP	UTILITY POLE

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NO	REVISION	DATE	BY

SCALES
0 1"
0 25mm
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

JON Y. HONDA
LICENSED PROFESSIONAL ENGINEER
No.14441-C
HAWAII, U.S.A.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
APRIL 30, 2024
EXPIRATION DATE OF THE LICENSE

DESIGNED JYH
DRAWN CBD
CHECKED SKK

COUNTY OF KAUA'I
DEPARTMENT OF WATER

LĪHU'E BASEYARD ELECTRICAL RELOCATION

Kennedy Jenks

GENERAL ABBREVIATIONS

SCALE NTS
JOB NO 2367009.01
DATE MARCH 2024
SHEET 2 OF 12
G-002

CALLOUTS AND SHORTHAND SYMBOLS

- DIRECTION OF FLOW
- SHEET KEYNOTE
- CENTERLINE
- PLATE
- DIAMETER
- APPROXIMATELY
- ANGLE
- WATER/FLUID SURFACE
- BUILDING GRID LABEL OR ACCESSORY NUMBER
- DOOR
- ROOM
- WALL
- WINDOW

REVISION SYMBOLS

CLOUDED AREA INDICATES CHANGED INFORMATION; NUMBER IN TRIANGLE INDICATES THE DRAWING VERSION AND MATCHES WITH REVISION INFORMATION IN THE REVISION BLOCK WITHIN THE DRAWING BORDER

SYMBOLOGY

- NORTH ARROW
- NEW
- EXISTING; SCREENED TEXT LABELS FOR SCREENED ELEMENTS IMPLY THE ELEMENT IS EXISTING
- FUTURE
- EXISTING LINEAR ELEMENTS TO BE REMOVED OR DEMOLISHED
- EXISTING NON-LINEAR ELEMENTS TO BE REMOVED OR DEMOLISHED
- EXISTING LINEAR ELEMENTS TO BE ABANDONED
- CENTERLINE
- MATCHLINE
- BREAK LINE
- NATIVE EARTH (IN SECTION)
- ENGINEERED FILL (IN SECTION)
- LANDSCAPE FILL (IN PLAN AND SECTION)
- SAND OR GROUT (IN PLAN AND SECTION)
- GRAVEL (IN PLAN AND SECTION)
- AGGREGATE BASE (IN PLAN AND SECTION)
- CRUSHED ROCK (IN PLAN AND SECTION)
- CONCRETE (IN PLAN AND SECTION)
- GRATING (IN PLAN)
- CHECKER PLATE (IN PLAN)
- MASONRY (IN SECTION)
- STEEL (IN SECTION)
- CROSSING UTILITIES

CROSS-REFERENCING SYMBOLS

FOUND ON DRAWING WHERE DETAIL, SECTION, OR ELEVATION IS CALLED OUT

DETAIL NUMBER → 1 / C-15 ← SHEET ON WHICH DETAIL IS DRAWN, "-" IF ON SAME SHEET

SECTION LETTER → A / A-13 ← SHEET ON WHICH SECTION IS DRAWN, "-" IF ON SAME SHEET

LETTERS USED WHEN MORE THAN ONE ELEVATION IS DRAWN WITHIN A SINGLE ROOM

ELEVATION NUMBER → 2 / A-9 (B, C, D) OR 2 / A-9 ← SHEET ON WHICH ELEVATION IS DRAWN, "-" IF ON SAME SHEET

STANDARD DETAIL NUMBER → S-5605

FOUND ON DRAWING WHERE DETAIL, SECTION, OR ELEVATION IS DRAWN

DETAIL NUMBER → 1 / C-4 ← SHEET ON WHICH DETAIL IS CALLED OUT, "-" IF SAME SHEET

1 DETAIL TITLE
SCALE: #/#" = 1'-0"

SECTION LETTER → A / A-5 ← SHEET ON WHICH SECTION IS CUT, "-" IF ON SAME SHEET

A SECTION TITLE
SCALE: #/#" = 1'-0"

ELEVATION NUMBER → 2 / A-3 ← SHEET ON WHICH ELEVATION IS CALLED OUT, "-" IF ON SAME SHEET

2 INTERIOR ELEVATION A
SCALE: #/#" = 1'-0"

STANDARD DETAIL NUMBER → C-5605

STANDARD DETAIL TITLE
SUB-TITLE
SCALE: #/#" = 1'-0"
REV 00

NOTE
STANDARD DETAILS ARE LOCATED WITHIN THEIR RESPECTIVE DISCIPLINE, IMMEDIATELY FOLLOWING THE GENERAL ABBREVIATIONS, NOTES, AND LEGEND SHEETS.

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DESIGNED	JYH
DRAWN	CBD
CHECKED	SKK

COUNTY OF KAUA'I
DEPARTMENT OF WATER

LĪHU'E BASEYARD ELECTRICAL RELOCATION

Kennedy Jenks

GENERAL LEGEND

SCALE	NTS
JOB NO	2367009.01
DATE	MARCH 2024
SHEET	3 OF 12
	G-003

CONSTRUCTION NOTES

1. ALL APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1986, HAWAI'I STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2005 (AS APPLICABLE), AND STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1984, AS AMENDED, OF THE DEPARTMENTS OF PUBLIC WORKS, CITY AND COUNTY OF HONOLULU, AND THE COUNTIES OF KAUA'I, MAUI, AND HAWAI'I.

2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.

3. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL PAY FOR ALL DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOT ASSUME THAT WHERE NO UTILITIES ARE SHOWN, THAT NONE EXIST.

4. UNLESS RELOCATION IS CALLED FOR ON THE PLANS, EXISTING UTILITIES SHALL REMAIN IN SERVICE AND IN PLACE. IF RELOCATION OF EXISTING UTILITIES IS REQUIRED FOR THE CONTRACTOR'S CONVENIENCE, INTERRUPTION OF SERVICE SHALL BE KEPT TO A MINIMUM AND SHALL BE DONE AT THE CONTRACTOR'S EXPENSE, AND ONLY WITH THE APPROVAL OF THE OFFICER-IN-CHARGE.

5. PRIOR TO ANY CONNECTION TO AN EXISTING UTILITY, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER.

6. PRIOR TO ANY EXCAVATION IN THE VICINITY OF ANY EXISTING UNDERGROUND FACILITIES, INCLUDING ALL WATER, SEWER, STORM DRAIN, GAS, PETROLEUM PRODUCTS, OR OTHER PIPELINES; ALL BURIED ELECTRIC POWER, COMMUNICATIONS, OR TELEVISION CABLES; ALL TRAFFIC SIGNAL AND STREET LIGHTING FACILITIES; AND ALL ROADWAY, STATE HIGHWAY, AND RAILROAD RIGHTS-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE AUTHORITIES REPRESENTING THE OWNERS OR AGENCIES RESPONSIBLE FOR SUCH FACILITIES TO FACILITATE A TIMELY MANNER OF WORK SO THAT A REPRESENTATIVE OF SAID OWNERS OR AGENCIES CAN BE PRESENT DURING SUCH WORK IF THEY SO DESIRE. IN THE CASE OF THE UNDERGROUND UTILITY SERVICE ALERT CENTER, THIS NOTICE WILL GIVE THEM TIME TO MARK THE LOCATION OF THE UTILITIES. THE CONTRACTOR SHALL ALSO NOTIFY UNDERGROUND SERVICES ALERT (USA) AT (811) IN ACCORDANCE WITH THE SPECIFICATIONS TO FACILITATE A TIMELY MANNER OF WORK, PRIOR TO SUCH EXCAVATION.

7. NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW INTO EXISTING COUNTY DRAINAGE SYSTEMS, OR ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY AT NO COST TO THE COUNTY. ANY ASSOCIATED COSTS INCURRED FOR REMEDIAL ACTION BY THE OFFICER-IN-CHARGE SHALL BE PAYABLE BY THE CONTRACTOR.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO THE BASEYARD.

9. CONFINED SPACE

   FOR ENTRY INTO A PERMIT REQUIRED CONFINED SPACE AS DEFINED IN 29 CFR PART 1910.146(B), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING:

   A. ALL SAFETY EQUIPMENT REQUIRED BY THE CONFINED SPACE REGULATIONS APPLICABLE TO ALL PARTIES OTHER THAN THE CONSTRUCTION INDUSTRY, TO INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:

      i. FULL BODY HARNESSES FOR UP TO TWO PERSONNEL.

      ii. LIFELINE AND ASSOCIATED CLIPS.

      iii. INGRESS/EGRESS AND FALL PROTECTION EQUIPMENT.

      iv. TWO-WAY RADIOS (WALKIE-TALKIES) IF OUT OF LINE-OF-SIGHT.

      v. EMERGENCY (ESCAPE) RESPIRATOR (10 MINUTE DURATION).

      vi. CELLULAR TELEPHONE TO CALL FOR EMERGENCY ASSISTANCE.

      vii. CONTINUOUS GAS DETECTOR (CALIBRATED) TO MEASURE OXYGEN, HYDROGEN SULFIDE, CARBON MONOXIDE AND FLAMMABLES (CAPABLE OF MONITORING AT A DISTANCE AT LEAST 20-FEET AWAY).

      viii. PERSONAL MULTI-GAS DETECTOR TO BE CARRIED BY INSPECTOR.

   B. CONTINUOUS FORCED AIR VENTILATION ADEQUATE TO PROVIDE SAFE ENTRY CONDITIONS.

   C. ONE ATTENDANT/RESCUE PERSONNEL TOPSIDE (OR MORE, IF WARRANTED BY THE CONTRACTOR'S HEALTH AND SAFETY OFFICER).

10. SHOULD HISTORIC REMAINS SUCH AS ARTIFACTS, BURIALS, CONCENTRATIONS OF SHELL OR CHARCOAL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, WORK SHALL CEASE IMMEDIATELY IN THE IMMEDIATE VICINITY OF THE FIND, AND THE FIND SHALL BE PROTECTED FROM FURTHER DAMAGE. THE CONTRACTOR SHALL CORDON OFF THE AREA AND IMMEDIATELY NOTIFY THE OFFICER-IN-CHARGE, THE PLANNING DEPARTMENT AT (808) 241-4050 AND THE STATE HISTORIC PRESERVATION DIVISION AT (808) 692-8015 , WHICH WILL ASSESS THE SIGNIFICANCE OF THE FIND AND RECOMMEND APPROPRIATE MITIGATION MEASURES, IF NECESSARY.

11. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES, PAY ALL CHARGES, FEES AND TAXES, GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN AND SPECIFIED.

12. DURING NON-WORKING HOURS, THE TRENCHES SHALL BE COVERED WITH NON-SKID STEEL PLATES AND ALL LANES OPEN TO TRAFFIC.

CONSTRUCTION NOTES (CONTINUED)

13. THE CONTRACTOR SHALL PROVIDE ACCESS TO AND FROM DRIVEWAYS AND PUBLIC STREETS AT ALL TIMES EXCEPT AS NOTED ON THE PLAN.

14. WHEN EXCAVATION IS ADJACENT TO OR UNDER EXISTING STRUCTURES OR FACILITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SHEETING AND BRACING THE EXCAVATION AND STABILIZING THE EXISTING GROUND TO RENDER IT SAFE AND SECURE FROM POSSIBLE SLIDES, CAVE-INS AND SETTLEMENT AND FOR PROPERLY SUPPORTING EXISTING STRUCTURES AND FACILITIES WITH BEAMS, STRUTS OR UNDER-PINNING TO FULLY PROTECT THEM FROM DAMAGE.

15. BACKFILL UNDER EXISTING STRUCTURES OR FACILITIES SHALL BE SANDY OR GRANULAR MATERIAL COMPLETELY PLACED AS SOON AS THE PIPE IS LAID AND TESTED. THE BACKFILL MATERIAL SHALL BE RAMMED WITH PROPER TOOLS UNTIL COMPACTED TO 90 TO 95 PERCENT OF ITS MAXIMUM DENSITY.

16. ALL ABANDONED PIPE OPENINGS SHALL BE PLUGGED WITH 2500 PSI CLASS B CONCRETE TO A DEPTH OF 1-1/2 TIMES THE DIAMETER THE PIPE.

17. THE CONTRACTOR SHALL VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE PLANS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF OFFICER-IN-CHARGE.

18. THE CONTRACTOR SHALL NOTIFY ALL AGENCIES TO VERIFY THE ACTUAL LOCATIONS OF ALL UTILITIES IN THE PROJECT AREA PRIOR TO EXCAVATING. THE CONTRACTOR SHALL COORDINATE ALL WORK.

19. THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ALL IMPROVEMENTS DAMAGED AS A RESULT OF THE CONSTRUCTION, INCLUDING PAVEMENTS, EMBANKMENTS, CURBS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, WALLS, FENCES, ETC. UNLESS PROVIDED FOR SPECIFICALLY IN THE PROPOSAL, DEMOLITION AND RESTORATION OF EXISTING ITEMS SHALL BE INCIDENTAL AND INCLUDED WITHIN THE AMOUNT PAID FOR UNCLASSIFIED TRENCH EXCAVATION.

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING/ RECONSTRUCTING ALL CONCRETE CURBS AND GUTTERS, AND SIDEWALKS DAMAGED DURING CONSTRUCTION.

21. ALL GRADING AND CONSTRUCTION WORK SHALL IMPLEMENT MEASURES TO ENSURE THAT THE DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE WILL BE REDUCED TO THE MAXIMUM EXTENT PRACTICABLE AND WILL NOT CAUSE OR CONTRIBUTE TO AN EXCEEDANCE OF WATER QUALITY STANDARDS. ALL GRADING, GRUBBING, AND STOCKPILING WORK SHALL BE PERFORMED IN ACCORDANCE WITH COUNTY OF KAUA'I ORDINANCE NO. 695.

22. IF THERE ARE ANY FUEL SPILLAGES, EXISTING LEAKS, ETC. FOUND DURING CONSTRUCTION, REPORT THE FOREGOING TO THE HAZARD EVALUATION AND EMERGENCY RESPONSE UNIT (PH. NO. 808-586-4248) OF THE DEPARTMENT OF HEALTH, FOR KAUA'I EMERGENCY MANAGEMENT (AS THE LOCAL EMERGENCY PLANNING COMMITTEE (241-1800, OR 241-6711 AFTER HOURS), AND THE KAUA'I FIRE DEPARTMENT (241-6500, OR 241-1711 AFTER HOURS).

23. THE CONTRACTOR SHALL APPLY FOR A PERMIT WITH A NOISE CONTROL PLAN AND OTHER REQUIRED POLLUTION CONTROL PLANS AS REQUIRED.

24. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH AND SAFETY AND ENVIRONMENTAL QUALITY.

25. THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN ALL NECESSARY SIGNS, BARRICADES, AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.

26. CONTRACTOR SHALL MAINTAIN A SECURE JOB SITE DURING CONSTRUCTION.

27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE HAWAI'I ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS", AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL."

    THE CONTRACTOR SHALL OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE(S) FOR THE FOLLOWING:

    A. STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES THAT DISTURB ONE (1) ACRE OR MORE, AND

    B. DISCHARGES OF HYDROTESTING EFFLUENT, DEWATERING EFFLUENT, RECYCLED WATER AND WELL DRILLING EFFLUENT TO STATE WATERS.

    IN ACCORDANCE WITH STATE LAW, ALL DISCHARGES RELATED TO PROJECT CONSTRUCTION OR OPERATIONS ARE REQUIRED TO COMPLY WITH STATE WATER QUALITY STANDARDS (HAWAII ADMINISTRATIVE RULES, CHAPTER 11-54). BEST MANAGEMENT PRACTICES SHALL BE USED TO MINIMIZE OR PREVENT THE DISCHARGE OF SEDIMENT, DEBRIS, AND OTHER POLLUTANTS TO STATE WATERS. PERMIT COVERAGE IS AVAILABLE FROM THE DEPARTMENT OF HEALTH, CLEAN WATER BRANCH AT HTTP://HEALTH.HAWAII.GOV/CWB. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING OTHER FEDERAL, STATE OR LOCAL AUTHORIZATIONS AS REQUIRED BY LAW.

28. A PRE-EXISTING SITE CONDITION VIDEO SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL SHOW EXISTING CONDITIONS OF ALL CONCRETE, ASPHALT, LANDSCAPED AREAS, BUILDING EXTERIOR, ETC. SURROUNDING THE CONSTRUCTION AREAS. VIDEO SHALL BE SUBMITTED TO THE OWNER PRIOR TO BREAKING GROUND. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.

29. ALL BUILDING COORDINATES ARE TO OUTSIDE CORNER OF COLUMN OR BUILDING.

30. CONTRACTOR SHALL RESTORE ALL SURVEY MONUMENTS THAT ARE DAMAGED OR DESTROYED DURING CONSTRUCTION.

31. OBSERVATIONS OF WORK IN PROGRESS DURING SITE VISITS SHALL NOT ALTER THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

CONSTRUCTION NOTES (CONTINUED)

32. PROTECT ALL SURVEY MONUMENTS.

33. SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.

34. THE CONTRACTOR SHALL MAINTAIN A COPY OF AN APPROVED SET OF PLANS ON THE CONSTRUCTION SITE AT ALL TIMES.

35. "LIMITS OF WORK" INDICATES THE TOTAL AREA OF DISTURBANCE DUE TO THE NATURE AND SCOPE OF THE WORK. THE TERM MAY ALSO BE USED TO INDICATE AREAS WHERE ACCESS IS LIMITED OR RESTRICTED.

36. PROVIDE TEMPORARY TRAFFIC SIGNAGE IN ACCORDANCE WITH STATE AND LOCAL AGENCIES DURING THE COURSE OF CONSTRUCTION.

37. USE CAUTION WHEN WORKING IN PROXIMITY TO OVERHEAD ELECTRICAL LINES. FOLLOW ELECTRICAL UTILITY SAFETY GUIDELINES AND OSHA REQUIREMENTS.

PUBLIC HEALTH SAFETY AND ENVIRONMENTAL NOTES

1. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH, SAFETY AND ENVIRONMENTAL QUALITY.

2. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.

3. THE CONTRACTOR, AT HIS/HER OWN EXPENSE, SHALL KEEP THE PROJECT AND ITS SURROUNDING AREAS FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH. THE CONSTRUCTION MANAGER SHALL REQUIRE SUPPLEMENTARY MEASURES AS REQUIRED.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARDS CONTAINED IN HAWAI'I ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS" AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL". BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL ENVIRONMENTAL PERMITS, E.G. CONSTRUCTION STORMWATER DISCHARGE, DEWATERING, INDUSTRIAL WASTEWATER DISCHARGE PERMITS, ETC. FOR ANY CONTRACT RELATED WORK.

6. THE CONTRACTOR'S ATTENTION IS DIRECTED TO CHAPTER 46 PUBLIC HEALTH REGULATIONS DEPARTMENT OF HEALTH, STATE OF HAWAI'I, "COMMUNITY NOISE CONTROL" IN WHICH MAXIMUM ALLOWABLE NOISE LEVELS HAVE BEEN SET. IF THE CONSTRUCTION ACTIVITIES FOR THIS PROJECT WILL EXCEED THE ALLOWABLE NOISE LEVELS, THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A PERMIT FROM THE DIRECTOR OF THE DEPARTMENT OF PUBLIC HEALTH. THE CONTRACTOR SHALL OBTAIN A COPY OF CHAPTER 46 AND BECOME FAMILIAR WITH THE NOISE LEVEL RESTRICTIONS AND THE PROCEDURES FOR OBTAINING A PERMIT FOR CONSTRUCTION ACTIVITIES. APPLICATION AND INFORMATION ON VARIANCES ARE AVAILABLE AT THE ENVIRONMENTAL HEALTH SERVICES DIVISION, 591 ALA MOANA BOULEVARD, HONOLULU, HAWAI'I' 96813 OR BY TELEPHONE [808-586-4700].

7. THE CONTRACTOR SHALL PROVIDE A PROJECT SIGN APPROVED BY THE OFFICER-IN-CHARGE. IT SHALL BE IN COMPLIANCE WITH THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REQUIREMENTS THAT MAY BE FOUND AT THE FOLLOWING WEBSITE LINKS:

   HTTPS://WWW.EPA.GOV/SITES/PRODUCTION/FILES/2015-01/DOCUMENTS/SIGNAGE_REQUIRED-TC.PDF

   HTTPS://WWW.EPA.GOVE/STYLEBOOK/USING-EPA-SEAL-AND-LOGO

SURVEY NOTES

BENCHMARK

ELEVATIONS REFERRED TO STREET SURVEY MONUMENT ALONG KALEPA STREET, APPROXIMATELY 0.4 MILES SOUTH OF ULU MAIKA STREET.
TOP OF BRASS PIN EL=262.96 FT, MSL
(GROVE FARM'S LĪHU'E/PUHI PROJECT)

NOTES

1. THE EXISTENCE AND LOCATION OF EXISTING STRUCTURES, UNDERGROUND UTILITIES, AND APPURTENANCES AS SHOWN ON THESE PLANS WERE COMPILED FROM RECORD INFORMATION PROVIDED BY THE COUNTY OF KAUA'I, ENGINEER'S FIELD MEASUREMENTS, AND THE TOPOGRAPHIC SURVEY:

   CONTROL POINT SURVEYING, INC.
   COUNTY OF KAUAI - DEPARTMENT OF WATER SUPPLY
   LĪHU'E CORPORATION YARD
   LĪHU'E, KAUA'I, HAWAI'I
   JUNE 16, 2010

ISSUED FOR BID

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NO	REVISION	DATE	BY

SCALES
0 1"
0 25mm
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

JON Y. HONDA
LICENSED PROFESSIONAL ENGINEER
No.14441-C
HAWAII, U.S.A.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
APRIL 30, 2024
EXPIRATION DATE OF THE LICENSE

DESIGNED	JYH
DRAWN	CBD
CHECKED	SKK

COUNTY OF KAUA'I
DEPARTMENT OF WATER

LĪHU'E BASEYARD ELECTRICAL RELOCATION

Kennedy Jenks

GENERAL NOTES

SCALE	NTS
JOB NO	2367009.01
DATE	MARCH 2024
SHEET	4 OF 12
	G-004

EROSION CONTROL SYMBOLS

- RIPRAP
- HAY BALE/STRAW WATTLE
- FILTER SOCK

GENERAL CIVIL SYMBOLS

- S=0.012 — SLOPE ON PAVED SURFACE OR PIPE
- 3:1 — BERM SLOPE (HORZ TO VERT)
- SURFACE FLOW DIRECTION

TOPOGRAPHY AND MAPPING SYMBOLS

- 230 — MAJOR CONTOURS
- 229 — MINOR CONTOURS
- TOP OF SLOPE
- TOE OF SLOPE
- P/L — PROPERTY LINE
- R/W — RIGHT-OF-WAY LINE
- GRADE BREAK
- R — RIDGE LINE
- EASEMENT LINE
- ESMT / TEMPORARY — TEMPORARY EASEMENT LINE
- TRAIL OR DIRT ROAD
- FLOW LINE
- FLOOD HAZARD AREA
- EDGE OF WETLANDS
- RAILROAD
- SITE OR RETAINING WALL
- GUARDRAIL (PERMANENT)

EXISTING UTILITIES

- W_2 — WATER LINE
- D_8 — DRAIN LINE
- S_8 — SEWER LINE
- E_6 — ELECTRICAL (UNDERGOUND)
- O/H — ELECTRICAL (OVERHEAD)

EXISTING FEATURES

- VEGETATION
- TREE
- BACK FLOW PREVENTER
- CB/MH OR SDMH
- CLEAN OUT
- COLUMN
- DRAIN INLET
- ELECTRIC BOX
- FIRE HYDRANT
- HOSE BIB
- ICV BOX
- ICV
- SEWER MH
- SIGN
- TELEPHONE BOX
- WATER MANHOLE
- WATER METER
- WATER VALVE

ROADWORK AND PAVING

NOTES:
1. PAVING PATTERNS MAY ONLY APPEAR IN PORTIONS OF PAVED AREAS TO DEFINE LIMITS OF PAVING.
2. SEE ALSO GENERAL LEGEND FOR ADDITIONAL PAVING PATTERNS.

- ASPHALT (IN PLAN AND SECTION)
- CONCRETE CURB
- CONCRETE CURB AND GUTTER
- DRIVEWAY/ACCESS RAMP
- WELDED WIRE FABRIC (IN SECTION)

CONTROL SYMBOLS

- BENCH MARK
- # — SITE COORDINATES (SEE TABLE ON DRAWINGS)
- DESCRIPTION / N XXXXXX.XX / E XXXXXX.XX — SITE COORDINATES
- CONTROL POINT
- MONUMENT
- FG XXX.XX — FINISHED ELEVATION/GRADE
- EG XXX.X + — EXISTING ELEVATION/GRADE
- X — CURVE DATA (SEE TABLE ON DRAWINGS)

STRUCTURES

- x x x — FENCE (CHAIN LINK)
- FENCE (SWING GATE)
- PROTECTIVE BARRIER
- PROTECTIVE BARRIER (REMOVABLE)
- STRUCTURE
- STRUCTURE (BELOW GRADE)

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EXPIRATION DATE OF THE LICENSE

DESIGNED	JYH
DRAWN	CBD
CHECKED	SKK

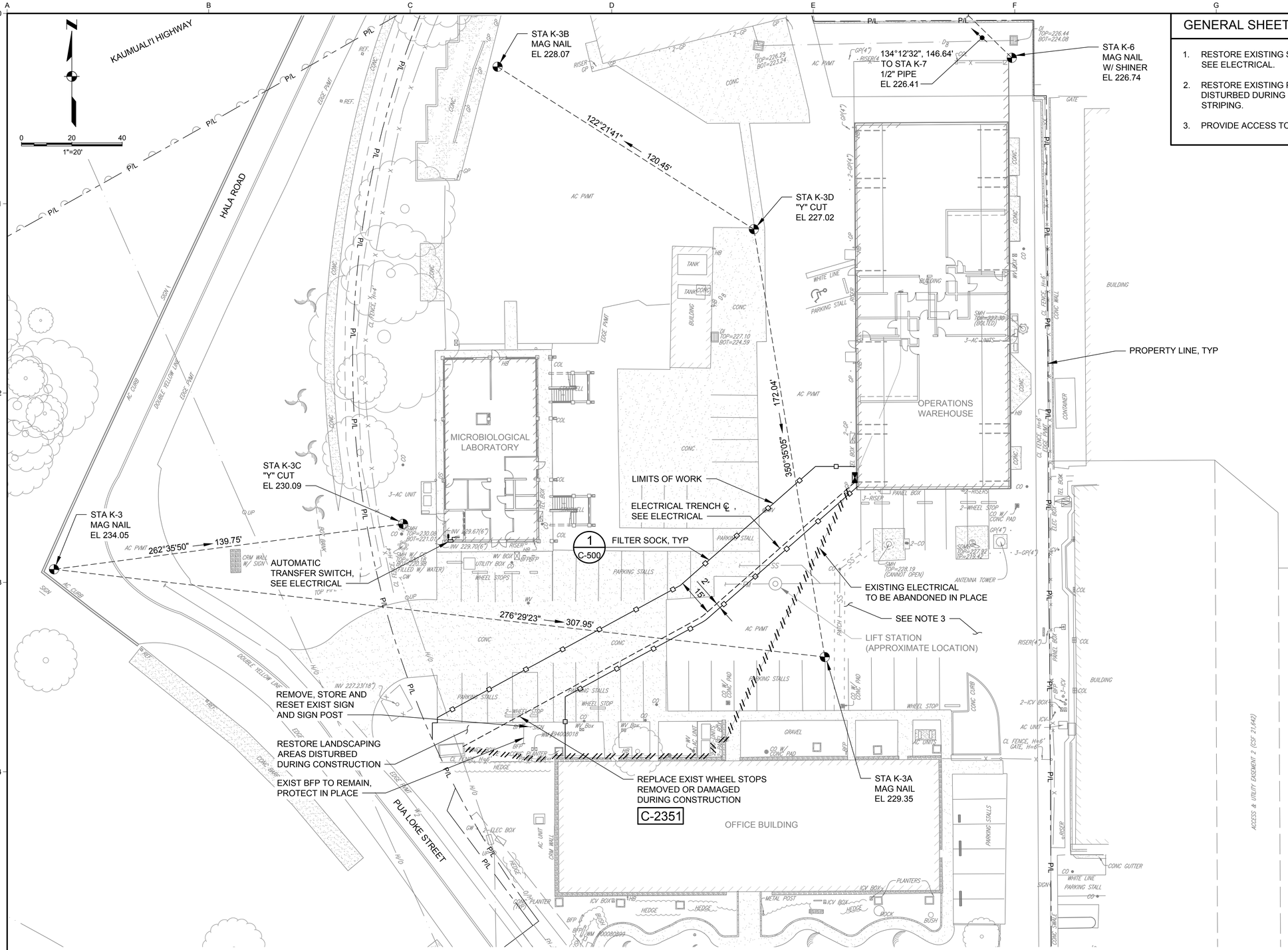
COUNTY OF KAUA'I
DEPARTMENT OF WATER

LĪHU'E BASEYARD ELECTRICAL RELOCATION

Kennedy Jenks

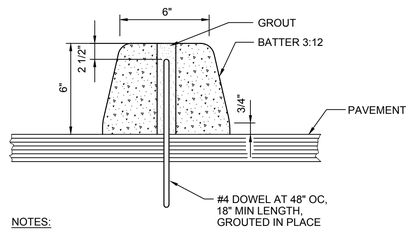
CIVIL LEGEND

SCALE	NTS
JOB NO	2367009.01
DATE	MARCH 2024
SHEET	5 OF 12
	C-001



GENERAL SHEET NOTES

1. RESTORE EXISTING SURFACES DISTURBED DURING CONSTRUCTION, SEE ELECTRICAL.
2. RESTORE EXISTING PAVEMENT MARKINGS OF PAVEMENTS DISTURBED DURING CONSTRUCTION. 4" WIDE, WHITE PAINT STRIPING.
3. PROVIDE ACCESS TO AREAS EAST OF CONSTRUCTION AT ALL TIMES.



NOTES:

1. WHEEL STOP SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE.
2. EPOXY CEMENT COAT SHALL BE APPLIED TO PAVEMENT SURFACE PRIOR TO INSTALLATION OF WHEEL STOP.
3. ALL EXPOSED CORNERS ON WHEEL STOP TO BE ROUNDED WITH A 1/2" RADIUS.
4. PRECAST WHEEL STOP SHALL BE 6"-0" LONG UNLESS INDICATED OTHERWISE.

WHEEL STOP — C-2351
PRECAST — SCALE: NTS REV 00

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CHECKED	SKK

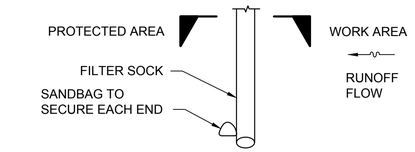
COUNTY OF KAUA'I
DEPARTMENT OF WATER

LĪHU'E BASEYARD ELECTRICAL RELOCATION

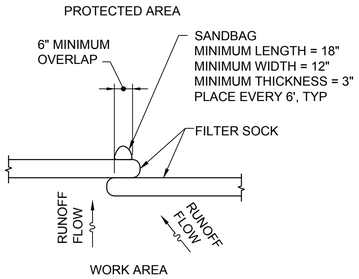
Kennedy Jenks

SITE PLAN AND
EROSION AND SEDIMENT CONTROL PLAN

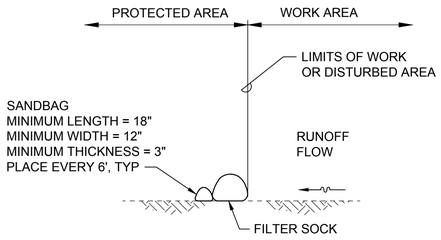
SCALE	1"=20'
JOB NO	2367009.01
DATE	MARCH 2024
SHEET	6 OF 12
	C-100



PLAN



OVERLAP



SECTION

1 C-100 FILTER SOCK
SCALE: NTS

FILTER SOCK NOTES

1. FILTER SOCKS SHALL BE STAKED AS REQUIRED BY MANUFACTURER.
2. THE COMPOST USED IN FILTER SOCKS SHOULD MEET ALL LOCAL, STATE AND FEDERAL QUALITY REQUIREMENTS. COMPOST SHALL NOT CONTAIN BIOSOLIDS. COMPOST SHALL BE BIO-DEGRADABLE.
3. FILTER SOCK STAKES SHALL BE CAREFULLY INSTALLED AS TO AVOID ALL EXISTING UNDERGROUND UTILITIES. ANY DAMAGED UTILITIES DUE TO STAKING SHOULD BE REPORTED IMMEDIATELY TO THE OFFICER-IN-CHARGE. CONTRACTOR SHALL REPAIR DAMAGED PIPE WITH NO COST TO THE PROJECT.
4. FILTER SOCKS THAT ARE REMOVED TO ALLOW ACCESS INTO THE WORK AREA SHALL BE REINSTALLED AT THE END OF THE WORK DAY.

MAINTENANCE

1. FILTER SOCK SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE MATERIAL OF A FILTER SOCK DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE FILTER SOCK IS STILL NECESSARY, THE FILTER SOCK SHALL BE REPLACED PROMPTLY.
3. SEDIMENT SHALL BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY 1/2 OF THE EFFECTIVE BARRIER HEIGHT.
4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE FILTER SOCK IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
5. FILTER SOCKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE WITH APPROVAL OF THE OFFICER-IN-CHARGE.

TEMPORARY DUST CONTROL

1. THE CONTRACTOR SHALL CONDUCT HIS/HER OPERATIONS SO THAT EXCAVATION, EMBANKMENT, AND IMPORTED MATERIAL SHALL BE DAMPENED WITH WATER ON A CONTINUAL BASIS TO PREVENT DUST PROBLEMS.
2. THE CONTRACTOR SHALL MAINTAIN A SUITABLE WATER SYSTEM AND DAMPEN THE PROJECT SITE DURING THE GRADING/GRUBBING/TRENCHING OPERATIONS.

BEST MANAGEMENT PRACTICE (BMP) NOTES

1. THE CONTRACTOR SHALL INSTALL DEVICES AND UTILIZE BEST MANAGEMENT PRACTICES (BMP) APPROPRIATE FOR THE PROJECT. THE CONTRACTOR SHALL REFERENCE THE CITY AND COUNTY OF HONOLULU'S "BEST MANAGEMENT PRACTICES MANUAL FOR CONSTRUCTION SITES IN HONOLULU", "RULES RELATING TO SOIL EROSION STANDARDS AND GUIDELINES" AND THE "INTERIM BEST MANAGEMENT PRACTICES MANUAL FOR CONSTRUCTION SITES FOR THE COUNTY OF KAUA'I, APRIL 2004. THESE DOCUMENTS SHALL SERVE AS GUIDELINES ONLY, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT SAFETY RELATIVE TO TRAFFIC, PONDING PROBLEMS, ETC. ARE CONSIDERED AND ADDRESSED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES AND/OR INJURIES RESULTING FROM HIS/HER BMP.
3. THE CONTRACTOR SHALL DESIGNATE AT LEAST ONE (1) PERSON WHO WILL BE RESPONSIBLE FOR INSPECTION, MAINTENANCE, AND REPAIR ACTIVITIES. PERSONNEL SELECTED FOR THE INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE. TRAINING SHALL INCLUDE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR MINIMIZING EROSION AND SEDIMENT AND FOR RETAINING SEDIMENT ON-SITE.
4. TEMPORARY EROSION CONTROLS SHALL BE IN-PLACE PRIOR TO STARTING ANY CONSTRUCTION WORK.
5. MAINTAIN TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT DURATION OF PROJECT UNTIL PERMANENT LANDSCAPING IS ESTABLISHED.
6. DURING TRENCH EXCAVATION, IF THE CONTRACTOR ELECTS TO TEMPORARILY STORE EXCAVATED BACKFILL ON-SITE ADJACENT TO TRENCH, IT SHALL BE PLACED ON THE UPHILL SIDE OF THE TRENCH. FILTER SOCKS SHALL BE INSTALLED AROUND ALL STOCKPILES TO PREVENT SEDIMENT TRANSMISSION.
7. THE CONTRACTOR SHALL INSPECT AND REMOVE SEDIMENT DEPOSITS FROM THE TEMPORARY EROSION CONTROLS AFTER EACH STORM EVENT.

ISSUED FOR BID

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APRIL 30, 2024
EXPIRATION DATE OF THE LICENSE

DESIGNED JYH
DRAWN CBD
CHECKED SKK

COUNTY OF KAUA'I
DEPARTMENT OF WATER
LĪHU'E BASEYARD ELECTRICAL RELOCATION
Kennedy Jenks

EROSION AND SEDIMENT CONTROL DETAILS AND NOTES

SCALE AS SHOWN
JOB NO 2367009.01
DATE MARCH 2024
SHEET 7 OF 12
C-500

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	ELECTRICAL PANELBOARD
	DUPLEX RECEPTACLE, 125V, NEMA 5-20R, WALL MTD. +18" OR AS NOTED
	DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTER TYPE, 125V, NEMA 5-20R, WALL MTD. +18" OR AS NOTED
	QUAD RECEPTACLE, 125V, NEMA 5-20R, WALL MTD. +18" OR AS NOTED
	2' X 4' ELECTRIC PULLBOX SIMILAR TO HECO STANDARD PULLBOX REQUIREMENTS
(E)	ELECTRICAL CONNECTION
(J)	JUNCTION BOX, CEIL. MTD., 4-11/16" NOM.
(J)	JUNCTION BOX, WALL MTD., 4-11/16" NOM.
(A) (S) 2-4E 1-2C	ELECTRIC/SIGNAL DUCTLINE WITH DESIGNATORS; ITEMS IN CIRCLE INDICATES DUCT SECTION TYPE, WITH DUCT COMPLEMENTS NOTED BELOW (TYPE "A" DUCT INDICATED WITH 2-4"E DUCT, AND TYPE "S" DUCT WITH 1-2"C DUCT; E=ELECTRIC, T=TELEPHONE, A=ANTENNA, C=CONTROLS, ~I=INSTRUMENTATION); SEE SHEET E002 FOR DUCT SECTION DETAILS
	EXISTING CONDUIT
	CONDUIT EXPOSED
	FLEXIBLE METALLIC CONDUIT
	HOMERUN TO PANEL OR AS INDICATED
WP	DENOTES "WEATHERPROOF"

NOTE:

PROVIDE GREEN GROUND CONDUCTOR IN ALL NEW BRANCH AND FEEDER CIRCUITS INCLUDING LIGHT SWITCHING LEGS, SIZED PER NEC TABLE 250.122. ALL CONDUCTORS #12 AWG MINIMUM.

GENERAL NOTES:

1. PLANS DO NOT INDICATE COMPLETE EXISTING ELECTRICAL CONDITIONS. CONTRACTOR SHALL VISIT JOBSITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND EXTENT OF ALL WORK PRIOR TO THE START OF CONSTRUCTION.
2. PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL VISIT JOBSITE AND REPORT ANY DISCREPANCIES AND/OR DIFFERENCE IN DRAWINGS, WITH RESPECT TO EXISTING CONDITIONS, TO THE CONTRACTING OFFICER.
3. CONTRACTOR SHALL RESOLVE ALL DISCREPANCIES AND QUESTIONS PRIOR TO THE START OF WORK. NO EXTRA PAYMENT SHALL BE ALLOWED ON ACCOUNT OF WORK MADE NECESSARY BY CONTRACTOR'S FAILURE TO VISIT THE SITE AND/OR FAILURE TO RESOLVE DISCREPANCIES AND QUESTIONS.
4. WHERE POSSIBLE CONCEAL ALL RACEWAYS IN WALL OR ABOVE CEILINGS. WHERE RACEWAYS AND BOXES ARE EXPOSED, PAINT RACEWAYS AND BOXES TO MATCH ADJACENT FINISH.
5. BEFORE ANY ELECTRICAL WIRING IS CUT, CONTRACTOR SHALL VERIFY USAGE OF WIRING TO ENSURE THAT REQUIRED SERVICES ARE NOT DISCONTINUED.
6. PROVIDE METAL SEALS FOR ALL ABANDONED RACEWAY OPENINGS IN BOXES, CABINETS, AND EQUIPMENT ENCLOSURES; SEALS SHALL RETAIN NEMA RATING OF REMAINING BOXES, CABINETS, AND EQUIPMENT ENCLOSURES.
7. FOR EXISTING CIRCUITS WHERE SOME ELECTRICAL ITEMS ARE REMOVED, CONTRACTOR SHALL PROVIDE ALL NECESSARY RACEWAYS, WIRES, BOXES, ETC., PER NEC REQUIREMENTS, TO ENSURE ELECTRICAL CONTINUITY AND PROPER OPERATION OF REMAINING CIRCUIT COMPONENTS.
8. PROVIDE POLYOLEFIN 200LB TEST PULLCORD IN ALL EMPTY CONDUITS, UNLESS OTHERWISE NOTED.
9. ALL ELECTRICAL EQUIPMENT ENCLOSURES AND EQUIPMENT MOUNTING HARDWARE AND FASTENERS FOR OUTDOOR INSTALLATION SHALL BE TYPE 316 STAINLESS STEEL, UNLESS OTHERWISE NOTED.
10. TONE AND MARK ALL BELOW GRADE WATERLINES, SEWER LINES, AND INFRASTRUCTURE ON SITE PRIOR TO EXCAVATING. TAKE CARE NOT TO DAMAGE EXISTING INFRASTRUCTURE WHEN INSTALLING NEW DUCTLINES AND PULLBOXES. ANY DAMAGES CAUSED SHALL BE REPAIRED AT NO COST TO THE DEPARTMENT.
11. THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION TO LIMIT THE NUMBER AND DURATION OF OUTAGES TO THE MINIMUM POSSIBLE. THE CONTRACTOR IS RESPONSIBLE FOR ACCOUNTING FOR ALL OUTAGES REQUIRED TO PERFORM THE WORK SAFELY BASED ON THE CONTRACTOR'S MEANS AND METHODS. DEPARTMENT SHALL BE NOTIFIED IN WRITING AT LEAST 15 CALENDAR DAYS PRIOR TO OUTAGE DATE.

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NO	REVISION	DATE	BY

SCALES
0 1"
0 25mm
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

KRAIG K. OTANI
LICENSED PROFESSIONAL ENGINEER
No. 14288-E
HAWAII, U.S.A.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
APRIL 24, 2026
EXPIRATION DATE OF THE LICENSE

DESIGNED VSG
DRAWN VSG
CHECKED KKO

COUNTY OF KAUA'I
DEPARTMENT OF WATER
LĪHU'E BASEYARD ELECTRICAL RELOCATION
Kennedy Jenks

ELECTRICAL SYMBOLS AND GENERAL NOTES

SCALE
JOB NO 2367009.01
DATE MARCH 2024
SHEET 8 OF 12
E-001

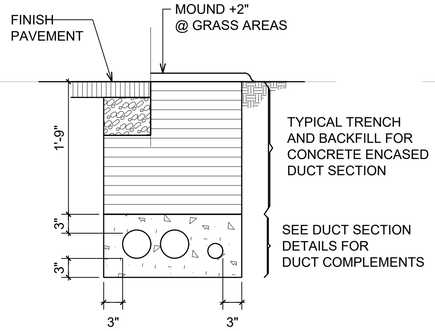
DUCT SECTION BACKFILL NOTES:

TYPE "A" BACKFILL - EARTH & GRAVEL. ROCK SIZE TO BE 1" MAX. & THE MIXTURE TO CONTAIN NOT MORE THAN 50% BY VOLUME OF ROCK PARTICLES. 95% COMPACTION.

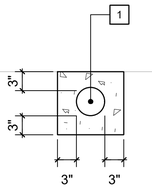
TYPE "B" BACKFILL - EARTH & GRAVEL. MIXTURE MUST PASS A 1/2" MESH SCREEN & CONTAIN NOT MORE THAN 20% BY VOLUME OF ROCK PARTICLES. 95% COMPACTION.

NOTE - IF NORMAL MATERIAL AT BOTTOM OF TRENCH IS NOT TYPE "B", AN ADDITIONAL 3" SHALL BE EXCAVATED & TYPE "B" BACKFILL PROVIDED.

CONCRETE - 3" ENCASEMENT, 3000 psi COMPRESSIVE STRENGTH @ 28 DAYS.



TYPICAL DUCT SECTION



SECTION (A)

DUCT SECTION

NTS

MINIMUM "X" DIMENSION
DUCT SEPARATION REQUIREMENTS

ELEC - ELEC = 1 1/2"

ELEC - TEL = 3"

TEL - TEL = 1 1/2"

ELEC - CTL/SIG = 3"

TEL - CTL/SIG = 1 1/2"

PWR - CTL/SIG = 3"

ELEC - PWR = 1 1/2"

TEL - PWR = 3"

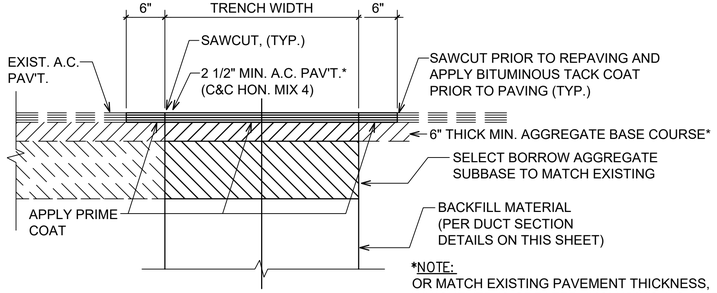
PWR - PWR = 1 1/2"

CTL/SIG - CTL/SIG = 1 1/2"

MINIMUM OF 3" CONCRETE ENCASEMENT AROUND DUCTBANK

WHERE DUCTLINE CROSSES OVER WATER LINE, PROVIDE THE FOLLOWING:

1. 6" MINIMUM SEPARATION BETWEEN DUCTLINES AND WATER LINE.
2. PROVIDE CONCRETE JACKET AROUND DUCTLINES.
3. PROVIDE ONLY TYPE "B" BACKFILL AROUND WATER LINE.



TRENCH REPAVEMENT DETAIL

NTS

*NOTE:
OR MATCH EXISTING PAVEMENT THICKNESS, WHICHEVER IS GREATER, INCLUDING A.C. AND/OR PORTLAND CONCRETE PAVEMENT, BASE COURSE AND SELECT BORROW.

DUCT AND WIRE SCHEDULE

NO.	DUCT SIZE	WIRE SIZE	DESTINATION OR USE
1	4"	SEE ONE-LINE DIAGRAM	OPERATIONS BUILDING FEEDER

NOTES:
1. ALL CONCRETE ENCASED DUCTS SHALL BE SCHEDULE 40 PVC.
2. ALL DIRECT BURIED DUCTS SHALL BE SCHEDULE 80 PVC.
3. PC INDICATES PROVIDE PULLCORD.

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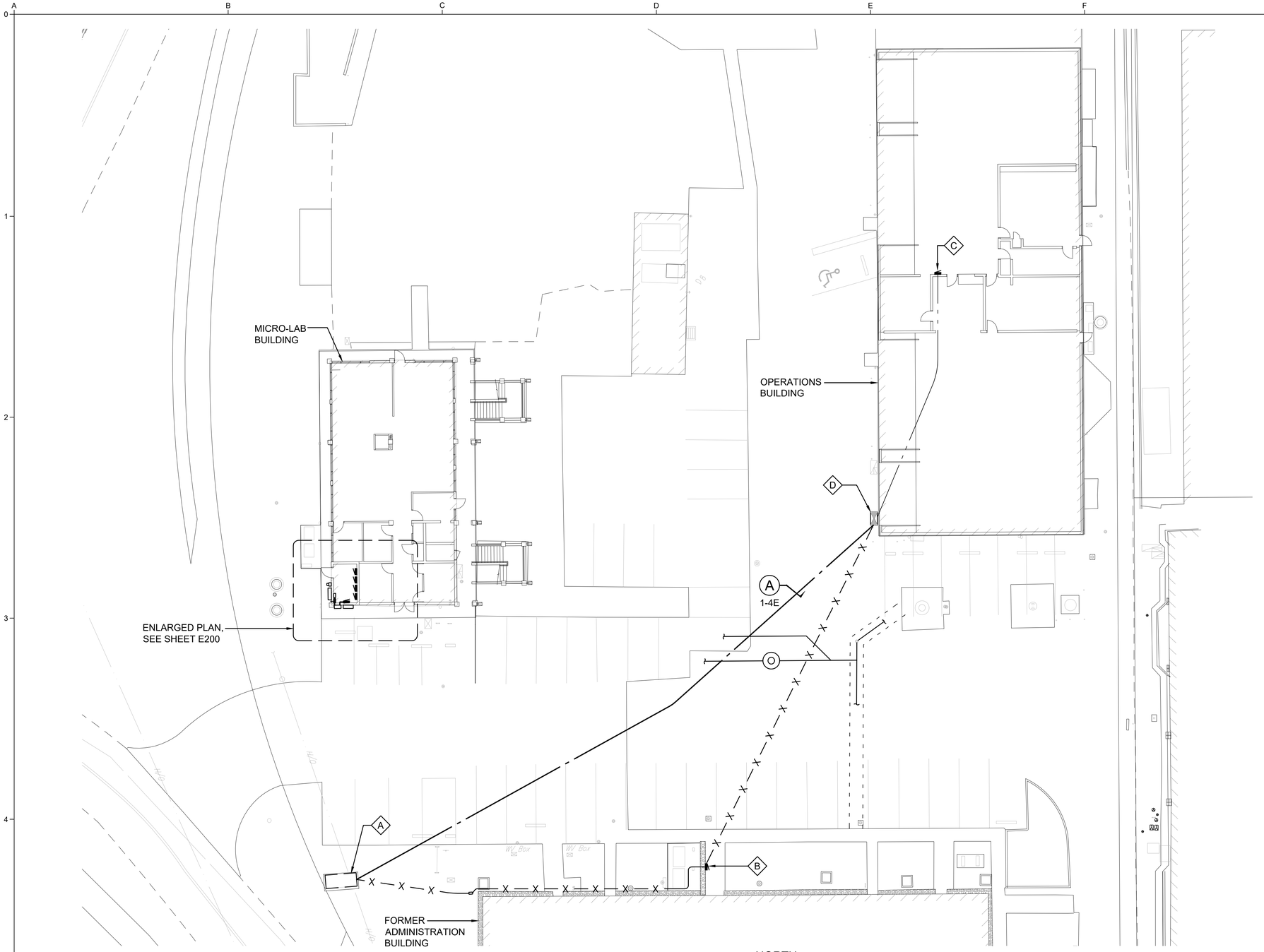
DUCT SECTION DETAILS

SCALE
JOB NO 2367009.01
DATE MARCH 2024
SHEET 9 OF 12
E-002



ELECTRICAL SITE PLAN

SCALE: 1/16"=1'-0"

NORTH

16' 8' 0 16' 32'

SCALE: 1/16"=1'-0"

GRAPHIC SCALE

ELECTRICAL PLAN NOTES:

A. EXISTING SERVICE SWITCHBOARD.

B. EXISTING PANEL AT FORMER ADMINISTRATION BUILDING TO BE DEMOLISHED.

C. EXISTING PANEL "C".

D. INTERCEPT EXISTING UNDERGROUND FEEDER WITH NEW 2' X 4' ELECTRICAL PULLBOX AND EXTEND NEW DUCTLINE TO EXISTING SERVICE SWITCHBOARD.

E. TONE AND MARK ALL BELOW GRADE WATERLINES, SEWER LINES, AND INFRASTRUCTURE ON SITE PRIOR TO EXCAVATING. TAKE CARE NOT TO DAMAGE EXISTING INFRASTRUCTURE WHEN INSTALLING NEW DUCTLINES AND PULLBOXES. ANY DAMAGES CAUSED SHALL BE REPAIRED AT NO COST TO THE DEPARTMENT.

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ELECTRICAL SITE PLAN

SCALE
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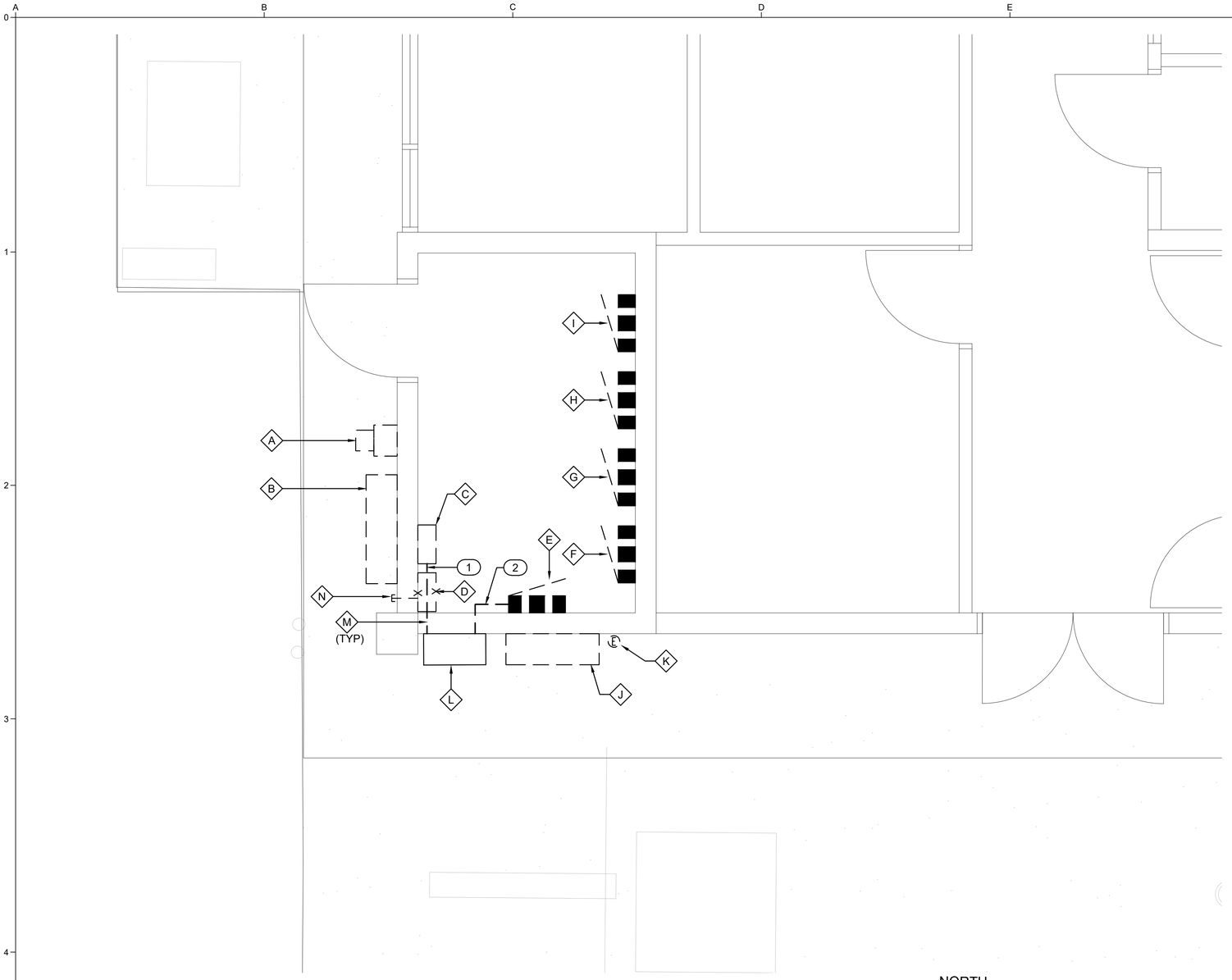
DATE MARCH 2024
SHEET 10 OF 12
E-100



ELECTRICAL PLAN NOTES:

A. EXISTING KIUC METER #T2010384

B. EXISTING CT CABINET.

C. EXISTING 3P400A MAIN SERVICE CIRCUIT BREAKER.

D. EXISTING 3P400A PORTABLE GENERATOR CIRCUIT BREAKER TO BE REMOVED.

E. EXISTING PANEL "DP".

F. EXISTING PANEL "1L".

G. EXISTING PANEL "2L".

H. EXISTING PANEL "C".

I. EXISTING PANEL "E".

J. EXISTING TELECOM JUNCTION BOX.

K. EXISTING ELECTRIC VEHICLE CHARGER RELOCATED TO THIS LOCATION TO ALLOW INSTALLATION OF NEW AUTOMATIC TRANSFER SWITCH. ROUTE NEW CONDUIT AND BRANCH CIRCUIT BACK TO EXISTING PANEL "1L".

L. NEW AUTOMATIC TRANSFER SWITCH.

M. CORE, PATCH AND PAINT FOR CONDUIT PENETRATION AS REQUIRED.

N. CAP EXISTING CONDUIT STUB-OUT AT EXTERIOR WALL.

CONDUIT AND WIRE SCHEDULE

KEY	CONDUIT (QTY) SIZE	WIRE SIZE	DESTINATION/USE/DESCRIPTION
1	(1)4"	SEE ONE-LINE DIAGRAM	NORMAL POWER FEEDER TO ATS
2	(1)4"	SEE ONE-LINE DIAGRAM	ATS FEEDER TO EXISTING PANEL "DP"
3			
4			

ENLARGED ELECTRICAL PLAN (MICRO-LAB BUILDING)

SCALE: 1/2"=1'-0"

NORTH

2' 1' 0 2' 4'

SCALE: 1/2"=1'-0"

GRAPHIC SCALE

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ENLARGD ELECTRICAL PLAN (MICRO-LAB BUILDING)

SCALE
JOB NO 2367009.01
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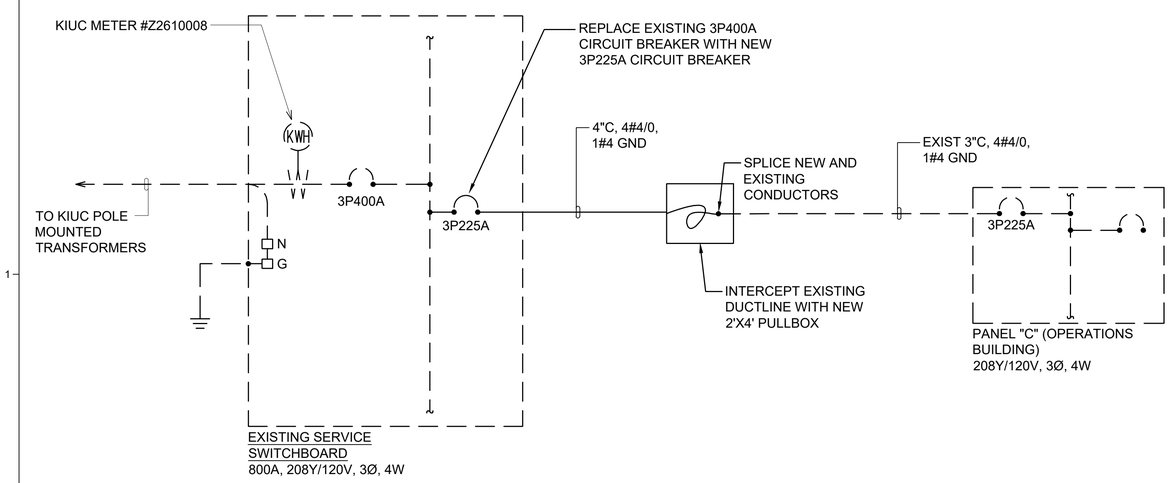
E-200



NOTES:

1. GROUND AND BOND PER N.E.C.
2. PROVIDE LABEL ON PANELBOARDS TO INDICATE WHERE POWER ORIGINATES PER NEC 408.4(B).
3. PROVIDE ARC-FLASH HAZARD WARNING LABEL ON PANELBOARD PER NEC 110.16(A).
4. DASHED LINES DENOTE EXISTING WORK. SOLID LINES DENOTE NEW WORK.

ONE-LINE DIAGRAM (OPERATIONS BUILDING)

NOTES:

1. REMOVED ELECTRICAL WORK AS INDICATED.

ONE-LINE DIAGRAM - EXISTING (MICRO-LAB BUILDING)

NOTES:

1. GROUND AND BOND PER N.E.C.
2. PROVIDE LABEL ON PANELBOARDS TO INDICATE WHERE POWER ORIGINATES PER NEC 408.4(B).
3. PROVIDE ARC-FLASH HAZARD WARNING LABEL ON PANELBOARD PER NEC 110.16(A).
4. DASHED LINES DENOTE EXISTING WORK. SOLID LINES DENOTE NEW WORK.

ONE-LINE DIAGRAM - NEW (MICRO-LAB BUILDING)

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ONE-LINE DIAGRAMS

SCALE	
JOB NO	2367009.01
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SHEET	12 OF 12
	E-300