

Plot Date: 9/16/2024 8:08 AM  
User: CLARISSA DEOCAIRES  
p:\kpc-pw\Documents\Clients\Kauai\County of HI\Kauai Dept of Water\Projects\Lihue Base Yard Fencing (PAO 2)\_2367009.02\10-Design\10.06-Drawings\General\2367009\_02-G-001

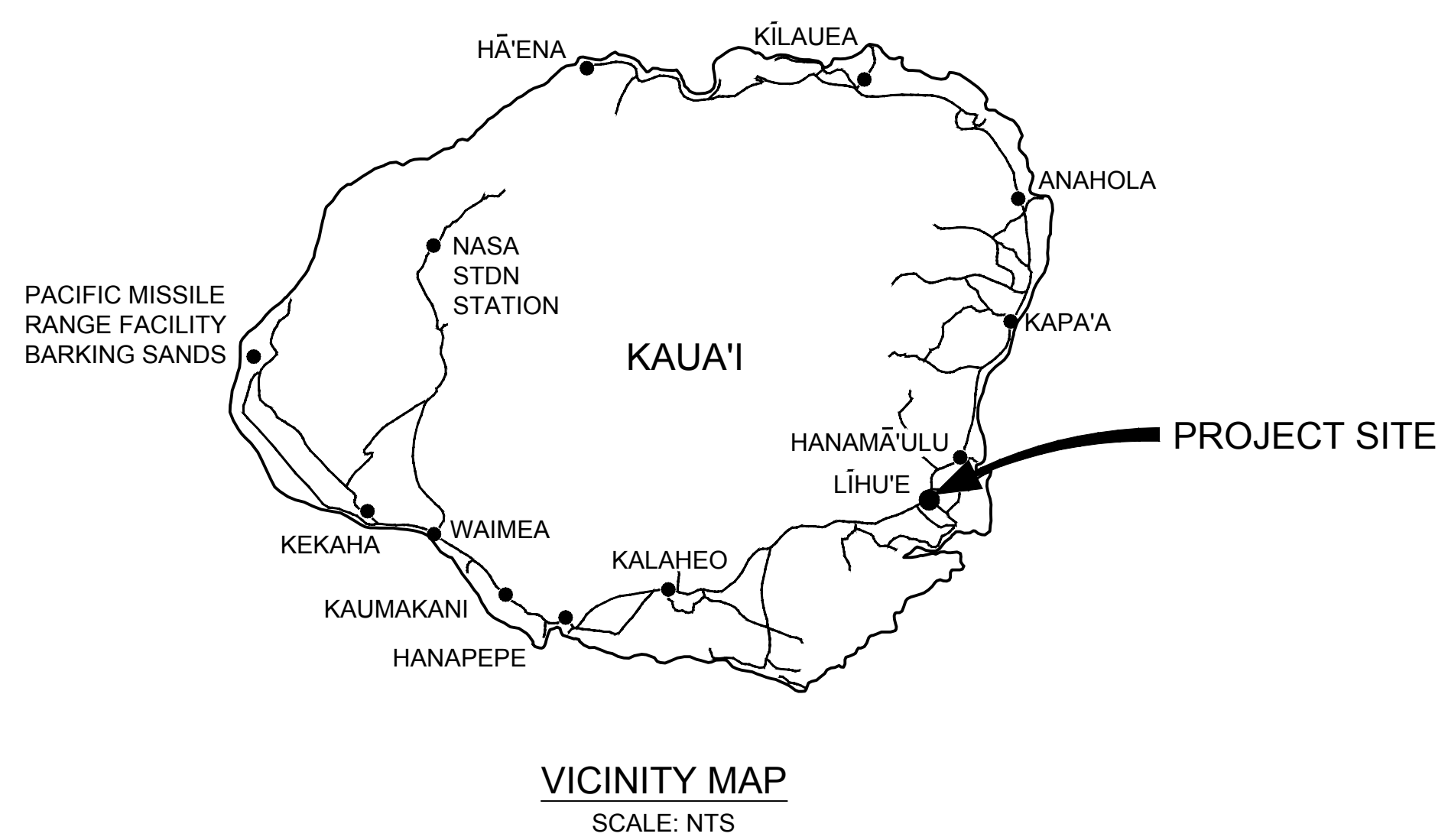
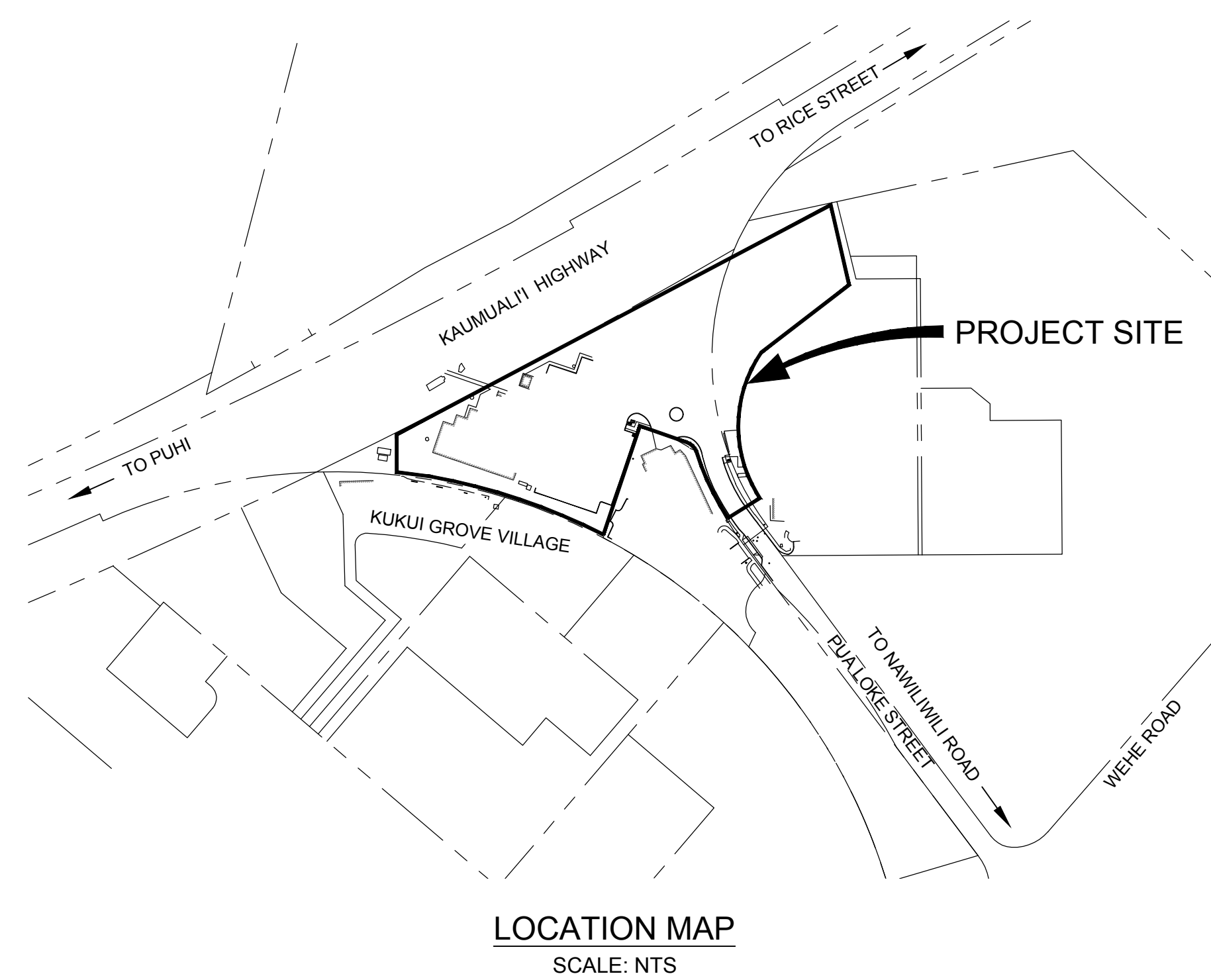
# COUNTY OF KAUA'I DEPARTMENT OF WATER

## LĪHU'E ADMINISTRATIVE BUILDING FENCING

TAX MAP KEY: (4) 3-8-005: PORTION OF 013, 027 AND 028

### DRAWING INDEX

SHEET NO	DRAWING NO	DESCRIPTION
<u>GENERAL</u>		
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
<u>CIVIL</u>		
5	C-001	CIVIL LEGEND
6	C-100	OVERALL SITE PLAN
7	C-101	SITE DETAILS - I
8	C-102	SITE DETAILS - II
9	C-103	SITE DETAILS - III
10	C-201	SITE SECTIONS
11	C-500	CIVIL DETAILS - I
12	C-501	CIVIL DETAILS - II
13	C-600	EROSION AND SEDIMENT CONTROL PLAN
14	C-601	EROSION AND SEDIMENT CONTROL DETAILS AND NOTES
<u>ELECTRICAL</u>		
15	E-001	ELECTRICAL SYMBOLS
16	E-002	DUCT SECTIONS
17	E-100	ELECTRICAL SITE PLAN
18	E-200	ONE-LINE DIAGRAM



### APPROVAL

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

9/16/24  
DATE



100% SUBMITTAL	NO	REVISION	DATE	BY	<p>SCALES</p> <p>0" = 1"</p> <p>0" = 25mm</p> <p>IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.</p>		DESIGNED JYH	COUNTY OF KAUA'I DEPARTMENT OF WATER  LĪHU'E ADMINISTRATIVE BUILDING FENCING	COVER, LOCATION & VICINITY MAPS, AND DRAWING INDEX	SCALE NTS
							CHECKED SKK			Kennedy Jenks

Plot Date: 9/5/2024 6:53 PM  
User: CLARRISSA DEOCARES  
p:\k\ce-pw\Documents\Clients\Kauai County of HI\Kauai Dept of Water\Fencing (PAO 2)\_2367009.02\10-Design\10.06-Drawings\General\2367009\_02-G-002

ABBREVIATIONS

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes entries like FOOT, FEET; INCH, INCHES; POUND, NUMBER; PERCENT; AND; APPROXIMATELY; CENTERLINE; PLATE; LESS THAN; EQUALS; GREATER THAN; DEFLECTION; ANGLE; DEGREE(-S) (ANGULAR); AASHTO; AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS; AB; AGGREGATE BASE, ANCHOR BOLT(-S); 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; BW; BOTTOM OF WALL; BC; BEGINNING OF HORIZONTAL CURVE, BOTTOM OF CURB; 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); DEF; DEFLECTION; DEG; DEGREE(-S); DEMO; DEMOLISH; DEPT; DEPARTMENT; DI; DUCTILE IRON, DROP INLET, DRAIN 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; FACILITY(-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; FLOOR; 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, LAMP POLE; 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); MODIFY(-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; PVM; 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; REQ; 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-PIPE; TYPE PIPE; T-SUPPORT; TYPE SUPPORT; TAN; TANGENT(-IAL); TBM; TEMPORARY BENCHMARK, TUNNEL BORING MACHINE; TDH; TOTAL DYNAMIC HEAD; TEL; TELEPHONE; TEMP; TEMPERATURE, TEMPORARY THICK(-ENED, -ENER, -NESS); THRU; THROUGH; TNK; TANK; TOPO; TOPOGRAPHY; TOT; TOTAL, TOTALIZE(R); TP; TEST PIT, TOP PIPE; 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; WITH; 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; WW; WATER VALVE; WWF; WASTEWATER; WWM; WELDED WIRE FABRIC; WWP; WELDED WIRE MESH; WWT; WASTEWATER TREATMENT PLANT; XFMR; TRANSFORMER; YD; YARD; YR; YEAR

PROJECT-SPECIFIC

BW	BOTTOM WALL
CD	CONDUIT
CLF	CHAIN LINK FENCE
COMM	COMMUNICATION
CONC	CONCRETE
D	DIAMETER, DRAIN
DSP	DRY STAND PIPE
DWY	DRIVEWAY
G	GROUND
GW	GUY WIRE
IV	IRRIGATION VALVE
PBX	PANEL BOX, PULL BOX
SL	STREET LIGHT
SMH	SEWER MANHOLE
TC	TOP CURB
TS	TOP STEM
TW	TOP WALL
UP	UTILITY POLE
WM	WATER METER

100% SUBMITTAL

NO REVISION DATE BY

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

DESIGNED: SS  
DRAWN: CBD  
CHECKED: SKK

COUNTY OF KAUAI  
DEPARTMENT OF WATER

LĪHU'E ADMINISTRATIVE BUILDING FENCING

Kennedy Jenks

SCALE: NTS  
JOB NO: 2367009.02  
DATE: SEPTEMBER 2024  
SHEET: 2 OF 18  
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
--	--

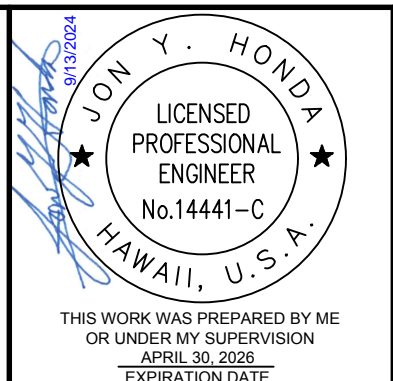
SYMBOLY	
	NORTH ARROW
	NEW
	EXISTING; SCREENED TEXT LABELS FOR SCREENED ELEMENTS IMPLY THE ELEMENT IS EXISTING
	FUTURE
	EXISTING LINEAR ELEMENTS TO BE REMOVED OR DEMOLISHED
	EXISTING NON-LINEAR ELEMENTS TO BE REMOVED OR DEMOLISHED
	EXISTING LINEAR ELEMENTS TO BE ABANDONED
	CENTERLINE
	MATCHLINE
	BREAK 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
	FOUND ON DRAWING WHERE DETAIL, SECTION, OR ELEVATION IS DRAWN
	FOUND ON DRAWING WHERE DETAIL, SECTION, OR ELEVATION IS CALLED OUT
	FOUND ON DRAWING WHERE DETAIL, SECTION, OR ELEVATION IS DRAWN
	FOUND ON DRAWING WHERE DETAIL, SECTION, OR ELEVATION IS CALLED OUT
	FOUND ON DRAWING WHERE DETAIL, SECTION, OR ELEVATION IS DRAWN
	FOUND ON DRAWING WHERE DETAIL, SECTION, OR ELEVATION IS CALLED OUT
	FOUND ON DRAWING WHERE DETAIL, SECTION, OR ELEVATION IS DRAWN

**100% SUBMITTAL**

NO	REVISION	DATE	BY

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



DESIGNED	JYH
DRAWN	CBD
CHECKED	SKK

COUNTY OF KAUA'I  
 DEPARTMENT OF WATER  
**LĪHUE ADMINISTRATIVE BUILDING FENCING**

**GENERAL LEGEND**

SCALE	NTS
JOB NO	2367009.02
DATE	SEPTEMBER 2024
SHEET	3 OF 18
	G-003



Plot Date: 9/15/2024 6:52 PM

User: CLARRISSA DEOCARES

02-G-004

p:\k\kpc-pw\Documents\Clients\Kauai County of HI\Kauai Dept of Water\Projects\Liuhue Base Yard Fencing (PAO 2)\_2367009.02\10-Design\10.06-Drawings\General\2367009\_02-G-004

CONSTRUCTION NOTES	CONSTRUCTION NOTES (CONTINUED)	CONSTRUCTION NOTES (CONTINUED)	PUBLIC HEALTH SAFETY AND ENVIRONMENTAL NOTES
<p>1. ALL APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1986, HAWAII 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 KAUAI, MAUI, AND HAWAII.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>5. PRIOR TO ANY CONNECTION TO AN EXISTING UTILITY, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER.</p> <p>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.</p> <p>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.</p> <p>8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO THE BASEYARD.</p> <p>9. CONFINED SPACE</p> <p>FOR ENTRY INTO A PERMIT REQUIRED CONFINED SPACE AS DEFINED IN 29 CFR PART 1910.146(B), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING:</p> <p>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:</p> <ul style="list-style-type: none"> <li>i. FULL BODY HARNESSSES FOR UP TO TWO PERSONNEL.</li> <li>ii. LIFELINE AND ASSOCIATED CLIPS.</li> <li>iii. INGRESS/EGRESS AND FALL PROTECTION EQUIPMENT.</li> <li>iv. TWO-WAY RADIOS (WALKIE-TALKIES) IF OUT OF LINE-OF-SIGHT.</li> <li>v. EMERGENCY (ESCAPE) RESPIRATOR (10 MINUTE DURATION).</li> <li>vi. CELLULAR TELEPHONE TO CALL FOR EMERGENCY ASSISTANCE.</li> <li>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).</li> <li>viii. PERSONAL MULTI-GAS DETECTOR TO BE CARRIED BY INSPECTOR.</li> </ul> <p>B. CONTINUOUS FORCED AIR VENTILATION ADEQUATE TO PROVIDE SAFE ENTRY CONDITIONS.</p> <p>C. ONE ATTENDANT/RESCUE PERSONNEL TOPSIDE (OR MORE, IF WARRANTED BY THE CONTRACTOR'S HEALTH AND SAFETY OFFICER).</p> <p>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.</p> <p>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.</p> <p>12. DURING NON-WORKING HOURS, THE TRENCHES SHALL BE COVERED WITH NON-SKID STEEL PLATES AND ALL LANES OPEN TO TRAFFIC.</p>	<p>13. THE CONTRACTOR SHALL PROVIDE ACCESS TO AND FROM DRIVEWAYS AND PUBLIC STREETS AT ALL TIMES EXCEPT AS NOTED ON THE PLAN.</p> <p>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.</p> <p>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.</p> <p>16. ALL ABANDONED PIPE OPENINGS SHALL BE PLUGGED WITH 2500 PSI CLASS B CONCRETE TO A DEPTH OF 1-1/2 TIMES THE DIAMETER OF THE PIPE.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING/ RECONSTRUCTING ALL CONCRETE CURBS AND GUTTERS, AND SIDEWALKS DAMAGED DURING CONSTRUCTION.</p> <p>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 KAUAI ORDINANCE NO. 695.</p> <p>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 KAUAI EMERGENCY MANAGEMENT (AS THE LOCAL EMERGENCY PLANNING COMMITTEE (241-1800, OR 241-6711 AFTER HOURS), AND THE KAUAI FIRE DEPARTMENT (241-6500, OR 241-1711 AFTER HOURS).</p> <p>23. THE CONTRACTOR SHALL APPLY FOR A PERMIT WITH A NOISE CONTROL PLAN AND OTHER REQUIRED POLLUTION CONTROL PLANS AS REQUIRED.</p> <p>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.</p> <p>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.</p> <p>26. CONTRACTOR SHALL MAINTAIN A SECURE JOB SITE DURING CONSTRUCTION.</p> <p>27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS", AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL."</p> <p>THE CONTRACTOR SHALL OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE(S) FOR THE FOLLOWING:</p> <ul style="list-style-type: none"> <li>A. STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES THAT DISTURB ONE (1) ACRE OR MORE, AND</li> <li>B. DISCHARGES OF HYDROTESTING EFFLUENT, DEWATERING EFFLUENT, RECYCLED WATER AND WELL DRILLING EFFLUENT TO STATE WATERS.</li> </ul> <p>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 <a href="http://health.hawaii.gov/cwb">HTTP://HEALTH.HAWAII.GOV/CWB</a>. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING OTHER FEDERAL, STATE OR LOCAL AUTHORIZATIONS AS REQUIRED BY LAW.</p> <p>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.</p> <p>29. ALL BUILDING COORDINATES ARE TO OUTSIDE CORNER OF COLUMN OR BUILDING.</p> <p>30. CONTRACTOR SHALL RESTORE ALL SURVEY MONUMENTS THAT ARE DAMAGED OR DESTROYED DURING CONSTRUCTION.</p> <p>31. OBSERVATIONS OF WORK IN PROGRESS DURING SITE VISITS SHALL NOT ALTER THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.</p>	<p>32. PROTECT ALL SURVEY MONUMENTS.</p> <p>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.</p> <p>34. THE CONTRACTOR SHALL MAINTAIN A COPY OF AN APPROVED SET OF PLANS ON THE CONSTRUCTION SITE AT ALL TIMES.</p> <p>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.</p> <p>36. PROVIDE TEMPORARY TRAFFIC SIGNAGE IN ACCORDANCE WITH STATE AND LOCAL AGENCIES DURING THE COURSE OF CONSTRUCTION.</p> <p>37. USE CAUTION WHEN WORKING IN PROXIMITY TO OVERHEAD ELECTRICAL LINES. FOLLOW ELECTRICAL UTILITY SAFETY GUIDELINES AND OSHA REQUIREMENTS.</p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII 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.</p> <p>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.</p> <p>6. THE CONTRACTOR'S ATTENTION IS DIRECTED TO CHAPTER 46 PUBLIC HEALTH REGULATIONS DEPARTMENT OF HEALTH, STATE OF HAWAII, "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, HAWAII 96813 OR BY TELEPHONE (808-586-4700).</p> <p>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:</p> <p><a href="https://www.epa.gov/sites/production/files/2015-01/documents/signage_required-tc.pdf">HTTPS://WWW.EPA.GOV/SITES/PRODUCTION/FILES/2015-01/DOCUMENTS/SIGNAGE_REQUIRED-TC.PDF</a></p> <p><a href="https://www.epa.gov/stylebook/using-epa-seal-and-logo">HTTPS://WWW.EPA.GOV/STYLEBOOK/USING-EPA-SEAL-AND-LOGO</a></p> <p><b>SURVEY NOTES</b></p> <p><u>SURVEY CONTROLS</u></p> <p>HORIZONTAL AZIMUTHS AND COORDINATES ARE REFERRED TO GOVERNMENT TRIANGULATION STATION "KILOHANA".</p> <p>VERTICAL STREET MONUMENT TOP OF BRASS PIN ELEV.=262.96 FT. MSL</p> <p>LOCATED ALONG KALEPA STREET, APPROXIMATELY 0.4 MILES SOUTH OF ULU MAIKA STREET. (GROVE FARM'S LIHU'E/PUHI PROJECT)</p> <p><u>NOTES</u></p> <p>THIS MAP AND ASSOCIATED CADD FILE IS A TOPOGRAPHIC SURVEY OF THE SUBJECT PARCEL OR PROJECT SITE. THE DEPICTION OF BOUNDARIES AND ENCUMBRANCES AFFECTING THE PROJECT SITE ARE TAKEN FROM LATEST TAX MAPS ONLY. OBTAINING A COPY OF THE CURRENT TITLE REPORT OR DEED FOR AREAS WHERE PROPERTY AND ENCUMBRANCE ISSUES ARE CRITICAL IS RECOMMENDED PRIOR TO ANY DESIGN AND CONSTRUCTION WORK.</p> <p>UNDERGROUND UTILITY LINES AND/OR STRUCTURES, IF SHOWN, ARE PROVIDED BASED ON INFORMATION FROM PLANS/MAPS PREPARED BY OTHERS, AND NEED TO BE REVIEWED BY PUBLIC UTILITY AGENCIES OR ASSOCIATED FACILITIES.</p> <p>UNLESS OTHERWISE NOTED, ALL LOCATIONS OF UNDERGROUND UTILITY LINES AND/OR STRUCTURES ARE APPROXIMATE. NO GUARANTEE IS MADE ON THE ACCURACY OF COMPLETENESS OF THE INFORMATION SHOWN. THE USER(S) OF THIS TOPOGRAPHIC SURVEY MAP SHALL VERIFY THE INFORMATION, AS NEEDED, DURING DESIGN AND CONSTRUCTION.</p> <p>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 KAUAI, ENGINEER'S FIELD MEASUREMENTS AND THE TOPOGRAPHIC SURVEY.</p>

<p>100% SUBMITTAL</p>	<table border="1"> <thead> <tr> <th>NO</th> <th>REVISION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO	REVISION	DATE	BY					<p>SCALES</p> <p>0 = 1" = 25mm</p> <p>IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.</p>		<p>DESIGNED: SS</p> <p>DRAWN: CBD</p> <p>CHECKED: SKK</p>	<p>COUNTY OF KAUAI DEPARTMENT OF WATER</p> <p>LĪHU'E ADMINISTRATIVE BUILDING FENCING</p>	<p>SCALE: NTS</p> <p>JOB NO: 2367009.02</p> <p>DATE: SEPTEMBER 2024</p> <p>SHEET: 4 OF 18</p> <p>G-004</p>
NO	REVISION	DATE	BY											



Plot Date: 9/12/2024 9:45 AM

User: CLARRISSA DEOCAIRES

p:\kpc-pw\Documents\Clients\Kauai County of HI\Kauai Dept of Water\Projects\Lihue Base Yard Fencing (PAO 2)\_2367009.02\10-Design\10.06-Drawings\Civil\2367009\_02-C001.DWG

### EROSION CONTROL SYMBOLS

	RIPRAP
	HAY BALE/STRAW WATTLE
	FILTER SOCK

### GENERAL CIVIL SYMBOLS

	SLOPE ON PAVED SURFACE OR PIPE
	BERM SLOPE (HORZ TO VERT)
	SURFACE FLOW DIRECTION

### TOPOGRAPHY AND MAPPING SYMBOLS

	MAJOR CONTOURS
	MINOR CONTOURS
	TOP OF SLOPE
	TOE OF SLOPE
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	GRADE BREAK
	RIDGE LINE
	EASEMENT LINE
	TEMPORARY EASEMENT LINE
	TRAIL OR DIRT ROAD
	FLOW LINE
	FLOOD HAZARD AREA
	EDGE OF WETLANDS
	RAILROAD
	SITE OR RETAINING WALL
	GUARDRAIL (PERMANENT)

### EXISTING UTILITIES

	ELECTRICAL (OVERHEAD)
	SEWER LINE
	WATER LINE

### EXISTING FEATURES

	VEGETATION
	TREE
	AIR RELIEF VALVE
	BACK FLOW PREVENTER
	CATV BOX
	CB/MH OR SDMH
	CLEAN OUT
	COLUMN
	COMMUNICATIONS BOX
	DOWN SPOUT
	DRY STAND PIPE
	DRAIN INLET
	ELECTRIC BOX
	ELECTRIC MANHOLE
	FIRE HYDRANT
	GUY WIRE
	HOSE BIB
	ICV BOX
	ICV
	LIGHT POLE
	PULLBOX
	SEWER MH
	SIGN
	TELEPHONE BOX
	UTILITY POLE/CONDUIT
	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)
	SITE COORDINATES
	CONTROL POINT
	MONUMENT
	FINISHED ELEVATION/GRADE
	EXISTING ELEVATION/GRADE
	CURVE DATA (SEE TABLE ON DRAWINGS)

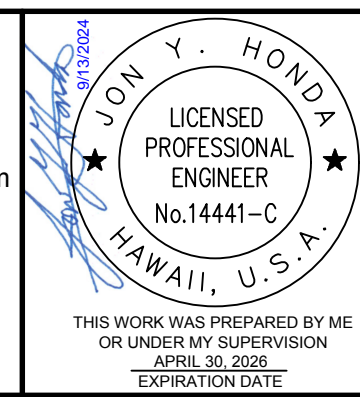
### STRUCTURES

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

100% SUBMITTAL

NO	REVISION	DATE	BY

SCALES  
 0 1" = 100'  
 0 25mm = 100mm  
 IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.



DESIGNED	SS
DRAWN	CBD
CHECKED	SKK

COUNTY OF KAUA'I  
 DEPARTMENT OF WATER  
 LĪHU'E ADMINISTRATIVE BUILDING FENCING



CIVIL LEGEND

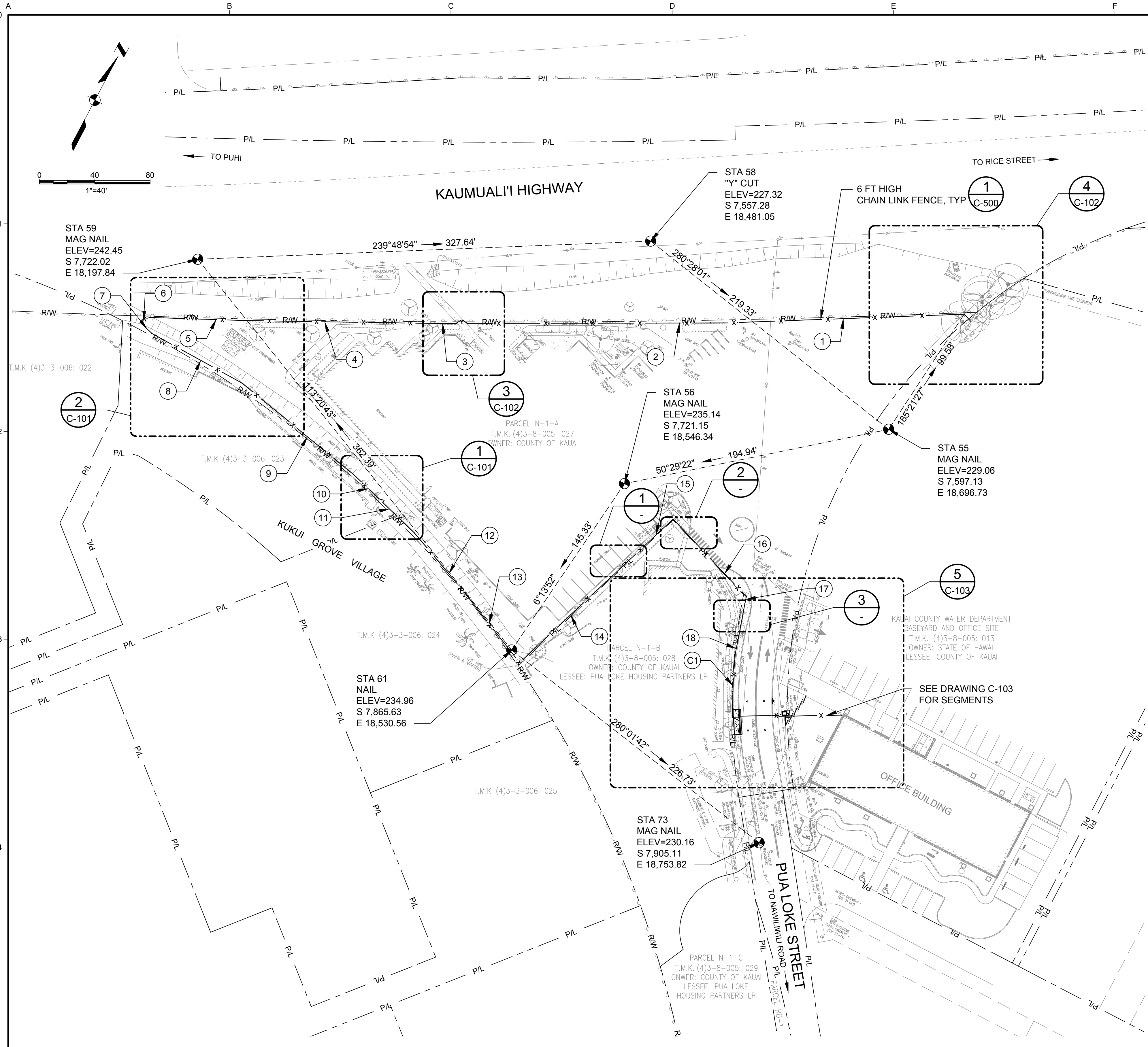
SCALE	NTS
JOB NO	2367009.02
DATE	SEPTEMBER 2024
SHEET	5 OF 18
	C-001



Plot Date: 9/13/2024 10:51 AM

User: CLARRISSA DEOCAIRES

p:\kpc-pw\Documents\Clients\Kauai County of HI\Kauai Dept of Water\Projects\Lihu Base Yard Fencing (PAO 2)\_2367009.02\10-Design\10.06-Drawings\Civil\2367009\_02-C100.DWG



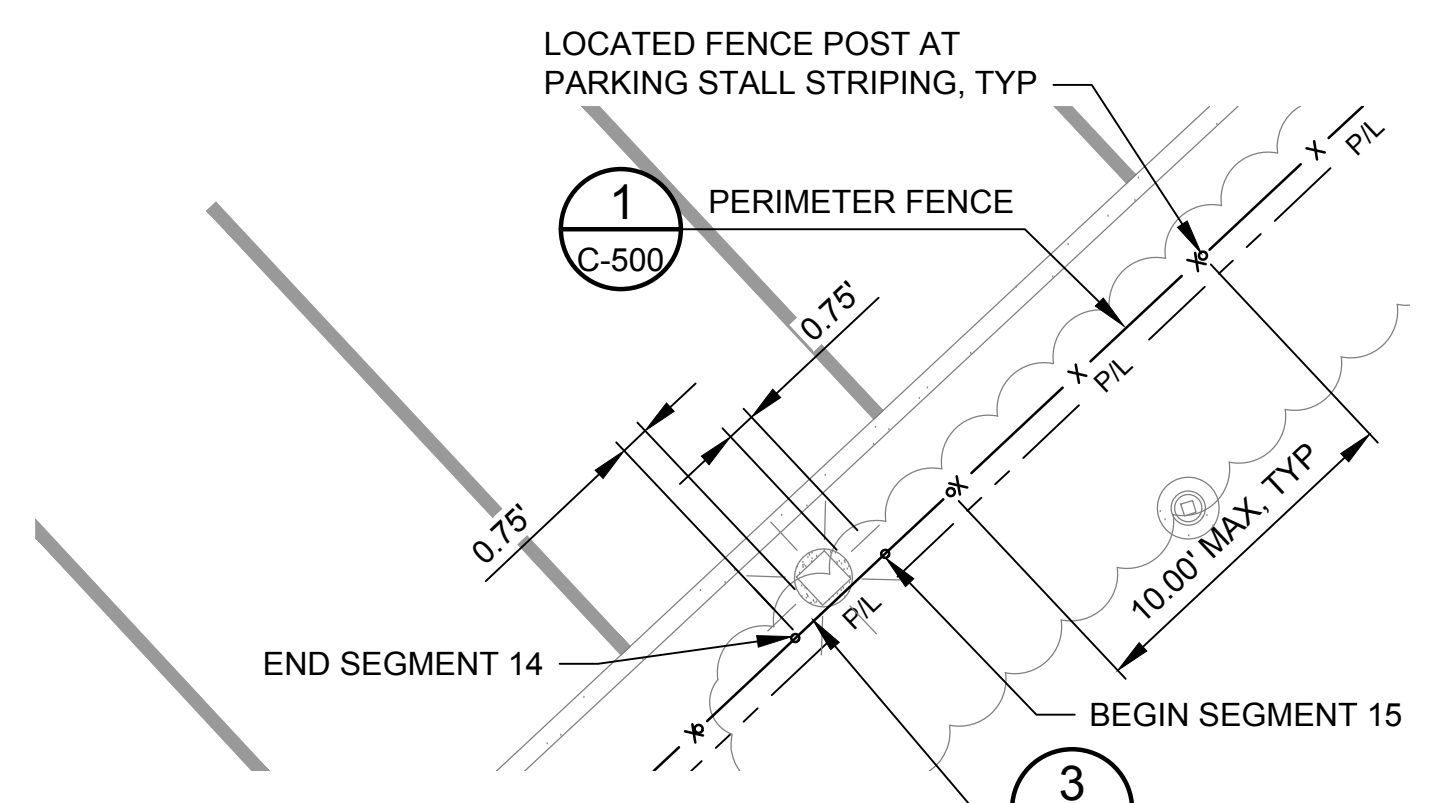
**GENERAL SHEET NOTES**

1. MAINTAIN 6-INCH CLEARANCE FROM FENCE TO PROPERTY LINE.

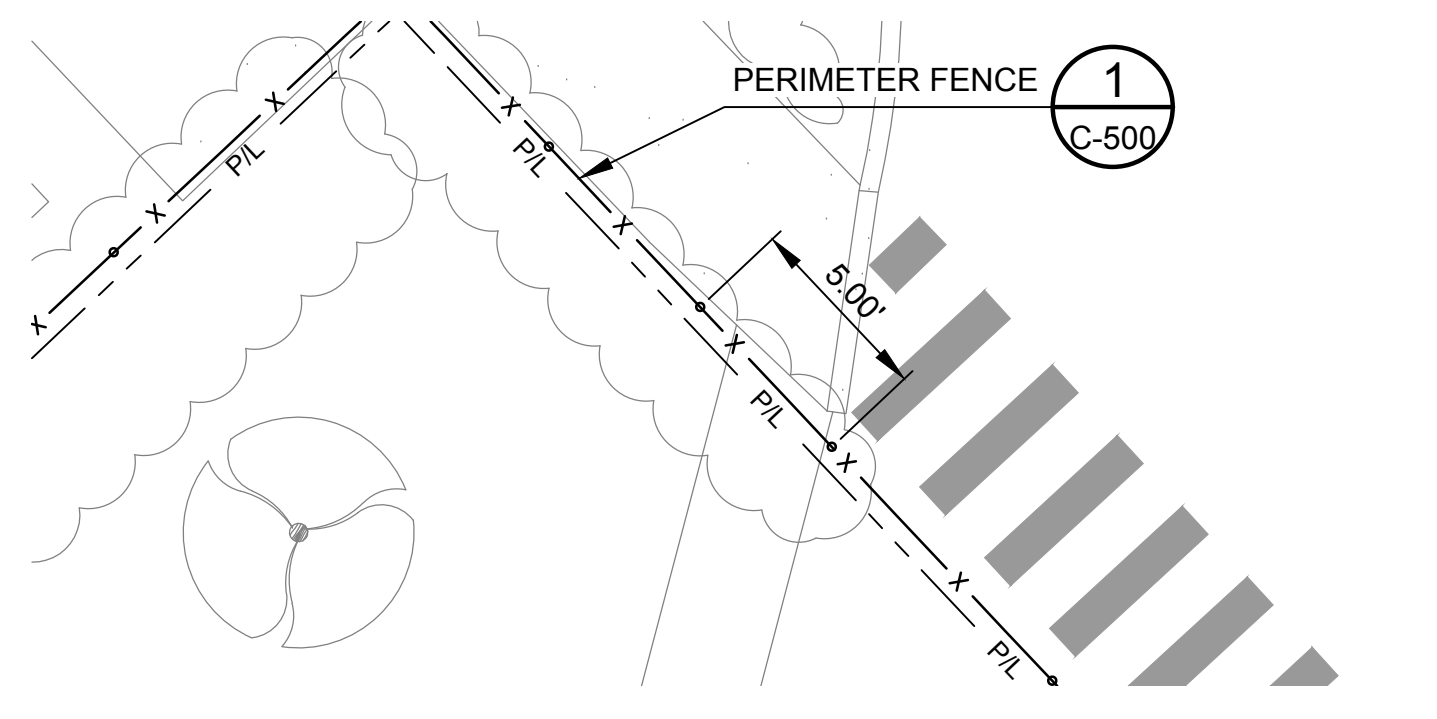
**FENCE CURVE TABLE\***

CURVE #	LENGTH	RADIUS	DELTA	CHORD LENGTH	CHORD DIRECTION
C1	46.5'±	408.35'	6.52	46.46'	S25°28'58"E

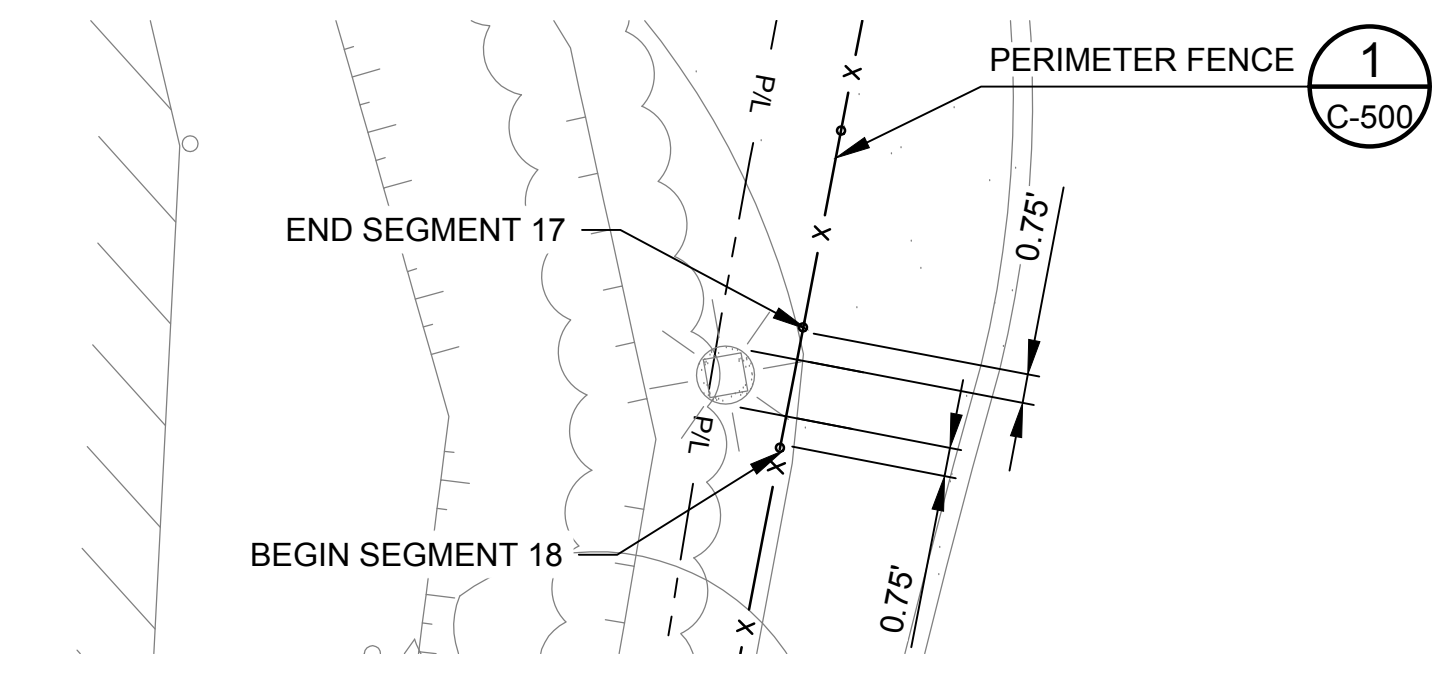
\*SET FENCE POSTS ALONG CURVE WITH 10' MAX CHORD DISTANCES BETWEEN POSTS.



**1 FENCE POSTS AT LIGHT POLE BASE**  
SCALE: 1"=5'



**2 FENCE POSTS AT WALKWAY**  
SCALE: 1"=5'



**3 FENCE POSTS AT LIGHT POLE BASE**  
SCALE: 1"=5'

**FENCE LINE TABLE**

SEGMENT #	AZIMUTH	DISTANCE
1	240°00'00"	171.84'
2	242°00'00"	187.40'
3	242°00'00"	14.60'
4	243°00'00"	140.00'
5	244°00'00"	32.00'
6	180°00'00"	5.60'
7	105°22'03"	9.68'
8	91°00'00"	74.67'
9	101°30'00"	105.00'
10	106°00'00"	24.46'
11	286°00'00"	31.54'
12	292°00'00"	56.00'
13	294°00'00"	64.88'
14	198°59'56"	99.2'±
15	198°57'52"	49.5'±
16	108°48'00"	77.12'
17	343°00'00"	10.4'±
18	343°00'00"	27.9'±
19	241°00'00"	4.00'
20	241°00'00"	29.56'
21	241°00'00"	45.2'±
22	331°00'00"	6.5'±

SEGMENT 20 IS OPENING FROM END OF SEGMENT 19 TO START IF SEGMENT 21

<b>100% SUBMITTAL</b>				
NO	REVISION	DATE	BY	

**SCALES**

0 1" = 40'

0 25mm

IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION APRIL 30, 2026 EXPIRATION DATE

DESIGNED: SS

DRAWN: CBD

CHECKED: SKK

COUNTY OF KAUAI  
DEPARTMENT OF WATER

**LĪHU'E ADMINISTRATIVE BUILDING FENCING**

**OVERALL SITE PLAN**

SCALE: 1" = 40'

JOB NO: 2367009.02

DATE: SEPTEMBER 2024

SHEET 6 OF 18

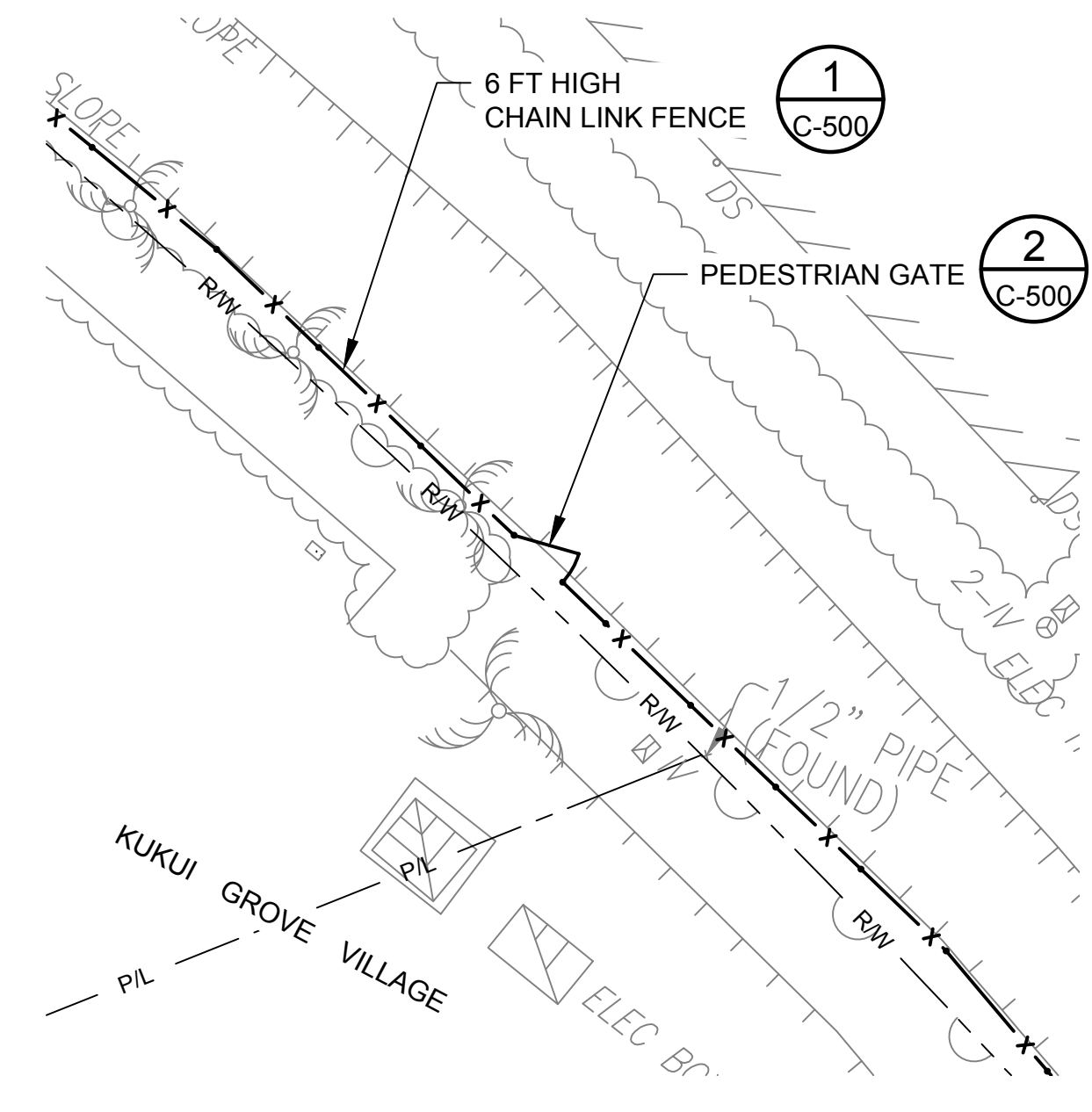
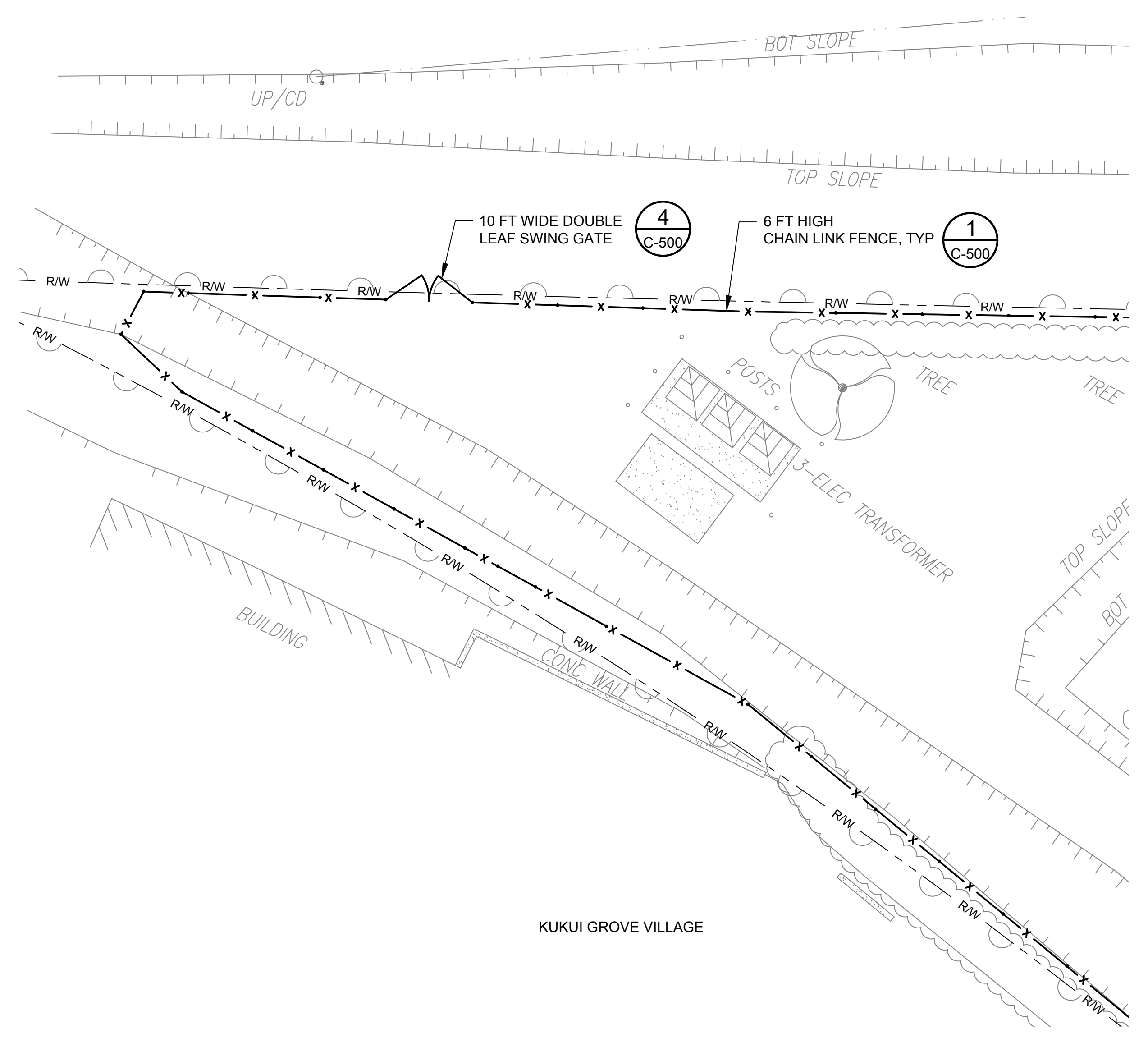
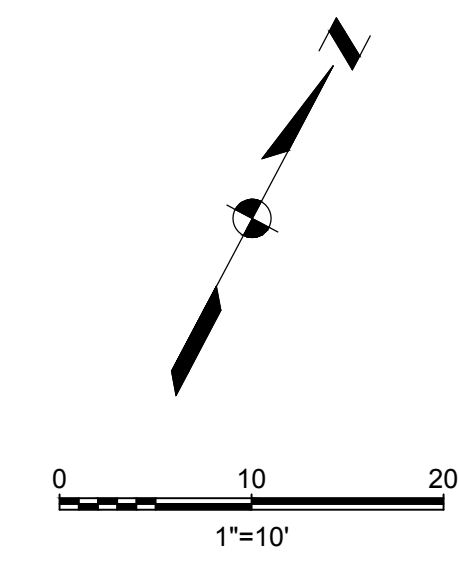
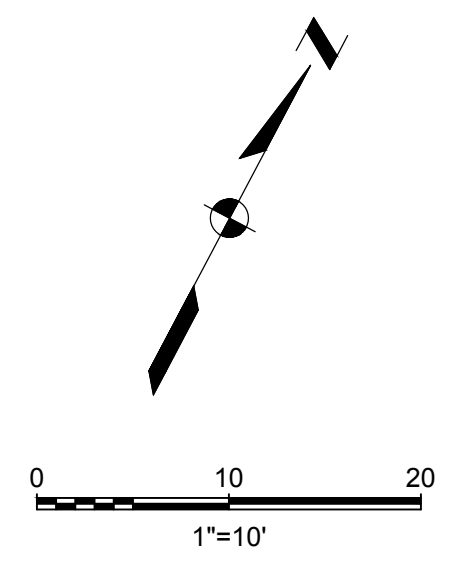
C-100



Plot Date: 9/12/2024 8:52 AM  
 User: CLARRISSA DEOCARES  
 p:\kpc-pw\Documents\Clients\Kauai County of HI\Kauai Dept of Water\Projects\Lihue Base Yard Fencing (PAO 2)\_2367009.02\10-Design\10.06-Drawings\Civil\2367009\_02-C101.DWG

**GENERAL SHEET NOTES**

1. MAINTAIN 6-INCH CLEARANCE FROM FENCE TO PROPERTY LINE.



**1 INSET**  
C-100 SCALE: 1"=10'

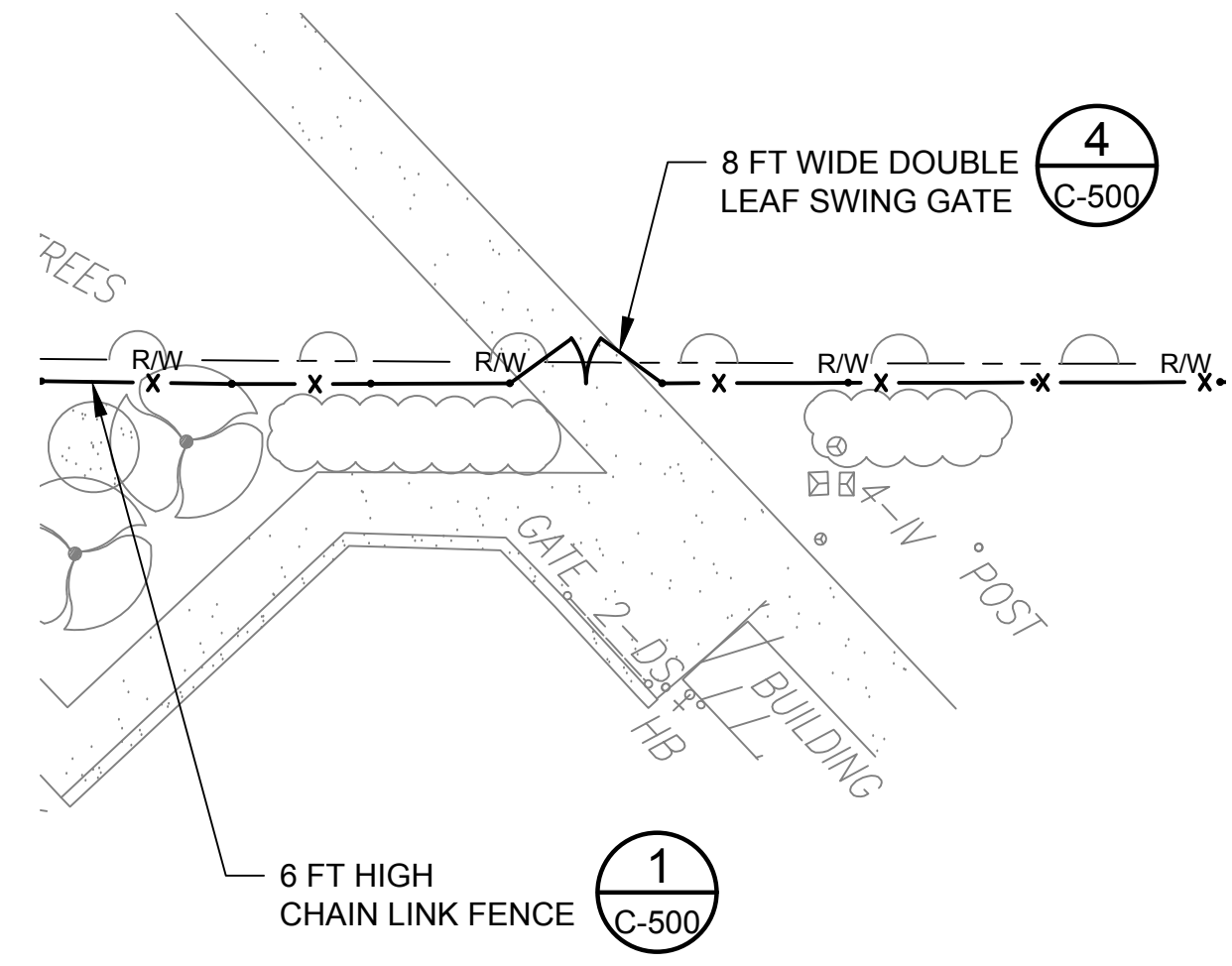
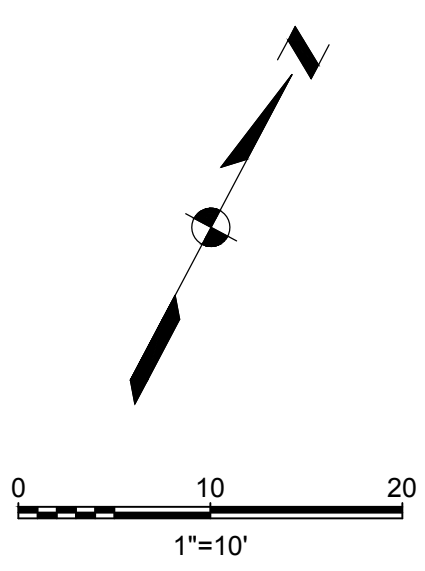
**2 INSET**  
C-100 SCALE: 1"=10'

<b>100% SUBMITTAL</b>	NO	REVISION	DATE	BY	<b>SCALES</b>  IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.	 <small>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION APRIL 30, 2026 EXPIRATION DATE</small>	DESIGNED SS	COUNTY OF KAUA'I DEPARTMENT OF WATER  <b>LĪHU'E ADMINISTRATIVE BUILDING FENCING</b>	Kennedy Jenks	SCALE 1" = 10'
							CHECKED SKK			JOB NO 2367009.02 DATE SEPTEMBER 2024 SHEET 7 OF 18 <b>C-101</b>

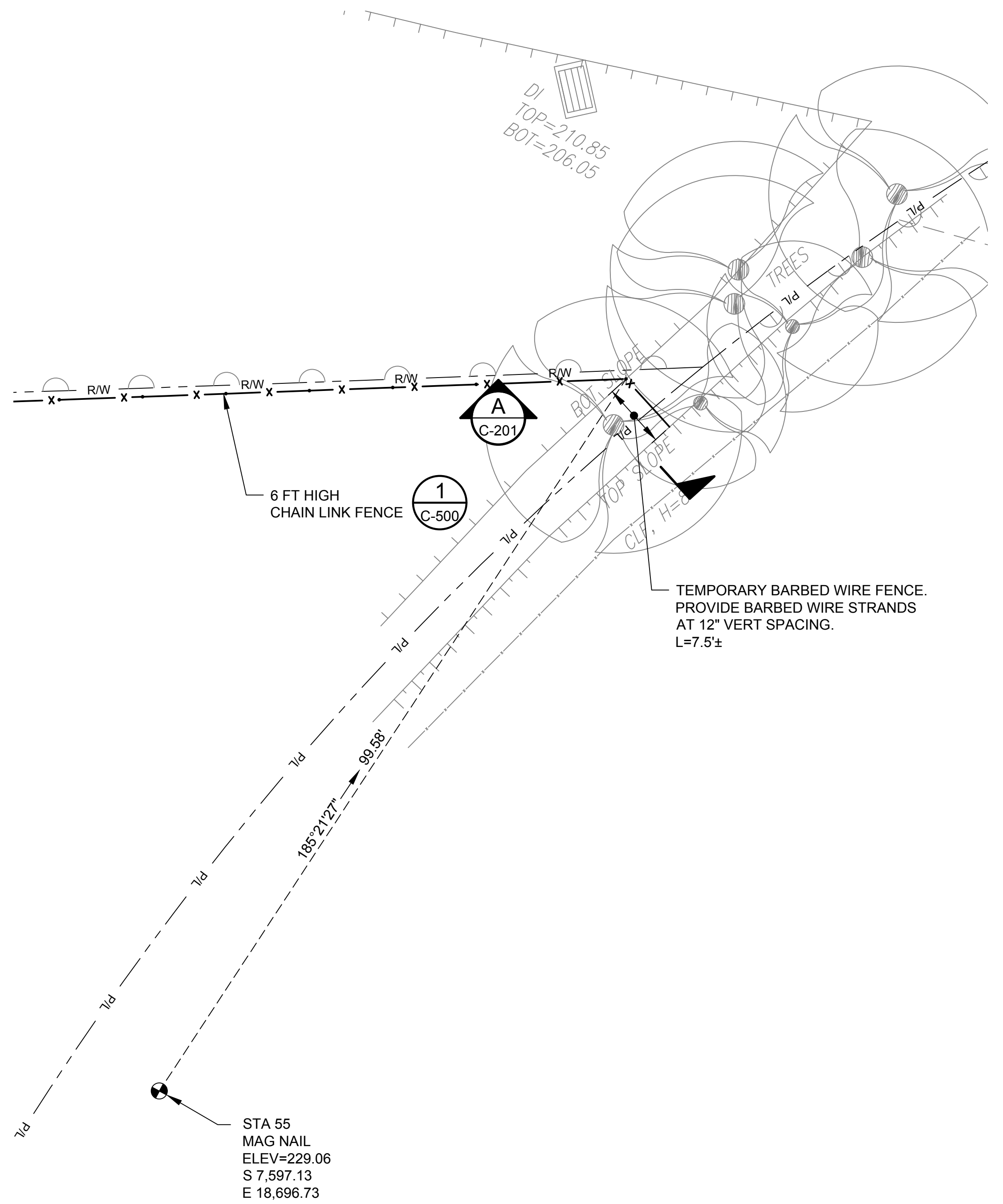
Plot Date: 9/12/2024 8:53 AM  
 User: CLARRISSA DEOCARES  
 p:\kpc-pw\Documents\Clients\Kauai County of HI\Kauai Dept of Water\Projects\Lihue Base Yard Fencing (PAO 2)\_2367009.02\10-Design\10.06-Drawings\Civil\2367009\_02-C102.DWG

**GENERAL SHEET NOTES**

- MAINTAIN 6-INCH CLEARANCE FROM FENCE TO PROPERTY LINE.



**3 INSET**  
C-100 SCALE: 1"=10'

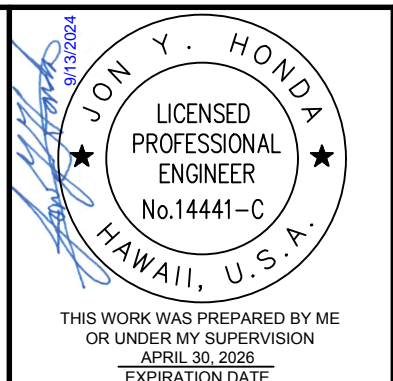


**4 INSET**  
C-100 SCALE: 1"=10'

**100% SUBMITTAL**

NO	REVISION	DATE	BY

**SCALES**  
 0 1" = 10'  
 0 25mm = 100mm  
 IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.



DESIGNED: SS  
 DRAWN: CBD  
 CHECKED: SKK

COUNTY OF KAUAI  
 DEPARTMENT OF WATER  
**LĪHUE ADMINISTRATIVE BUILDING FENCING**

**SITE DETAILS - II**

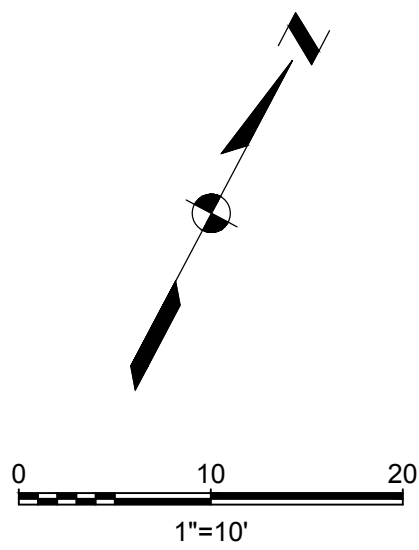
SCALE: AS SHOWN  
 JOB NO: 2367009.02  
 DATE: SEPTEMBER 2024  
 SHEET 8 OF 18  
**C-102**



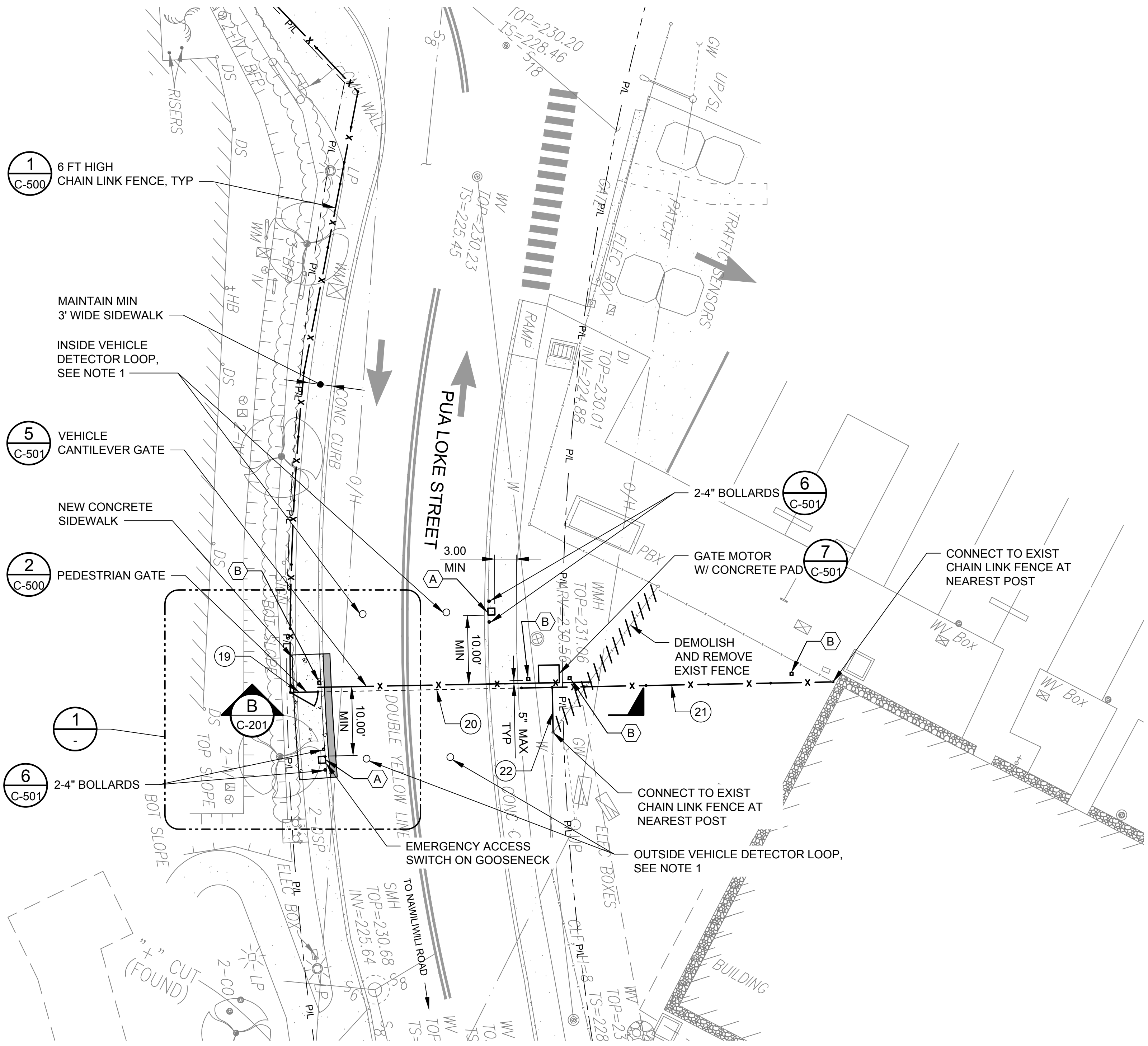
Plot Date: 9/13/2024 10:52 AM

User: CLARRISSA DEOCARES

p:\k\pce-pw\Documents\Clients\Kauai County of HI\Kauai Dept of Water\Projects\Lihu Base Yard Fencing (PAO 2)\_2367009.02\10-Design\10.06-Drawings\Civil\2367009\_02-C103.DWG



PARCEL N-1-B  
T.M.K. (4)3-8-005: 028  
OWNER: COUNTY OF KAUAI  
LESSEE: PUA LOKE HOUSING PARTNERS LP



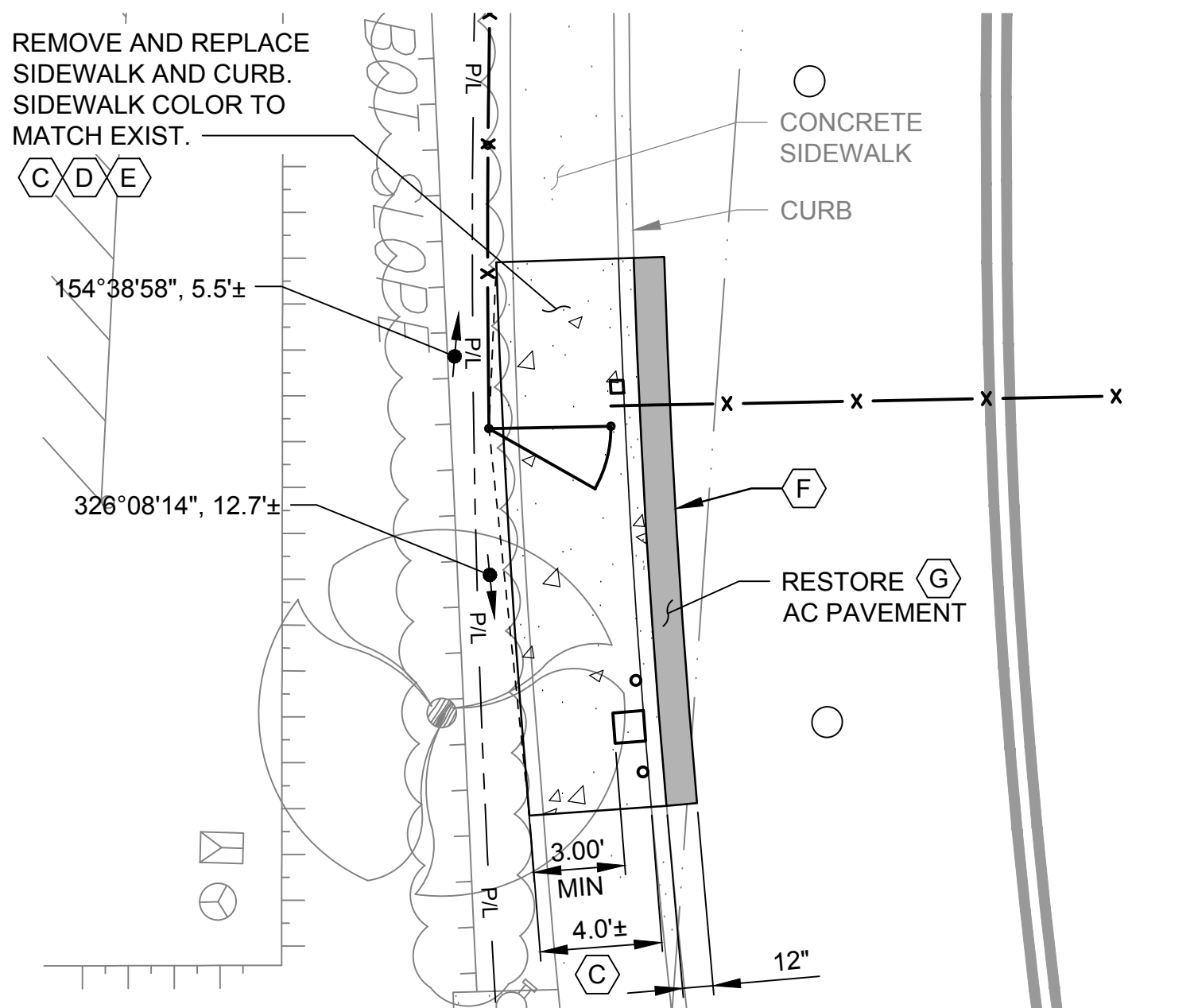
5 INSET  
SCALE: 1"=10'

GENERAL SHEET NOTES

1. PROVIDE LOCATION AND OTHER REQUIREMENTS PER MANUFACTURER INSTRUCTIONS AND RECOMMENDATIONS.
2. KEYPAD/CARD READER. PROVIDE LOCATION AND OTHER REQUIREMENTS PER MANUFACTURER INSTRUCTIONS AND RECOMMENDATIONS.
3. SEE DRAWING C-100 FOR FENCE LINE TABLE.
4. MAINTAIN 6-INCH CLEARANCE FROM FENCE TO PROPERTY LINE.

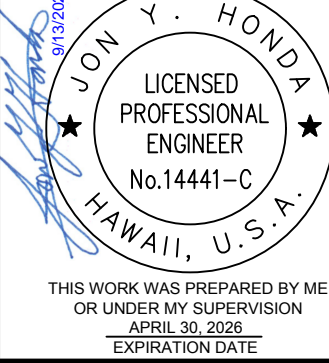
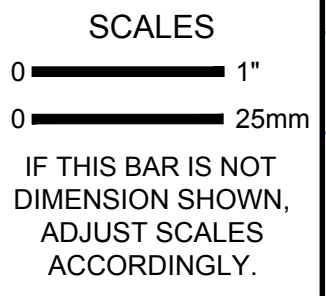
SHEET KEYNOTES

- A. KEYPAD W/ LOW PROFILE GOOSENECK. SEE ELECTRICAL SHEETS FOR WIRING.
- B. 5" X 5" STEEL POST WITH PHOTO EYE RECEIVER OR EMITTER ATTACHED. SEE DETAIL 8/C-501.
- C. REMOVE EXISTING CONCRETE SIDEWALK TO NEAREST SIDEWALK JOINT. SAWCUT ALONG ENTIRE SIDEWALK WIDTH PRIOR TO REMOVAL.
- D. CONCRETE SIDEWALK SHALL INCLUDE:
  - 4" MINIMUM THICKNESS OR MATCH EXISTING, WHICHEVER IS GREATER.
  - 6" MINIMUM SELECT BORROW BELOW CONCRETE SIDEWALK.
  - COMPACT SUBGRADE BELOW SELECT BORROW TO 95% MODIFIED PROCTOR DENSITY
  - CONTROL JOINTS ON 5' INTERVALS
  - BROOM FINISH CONCRETE SURFACE
- E. CONCRETE CURB SHALL MATCH EXISTING DIMENSIONS.
- F. SAWCUT ALONG ENTIRE AC PAVEMENT EXTENTS WIDTH PRIOR TO REMOVAL.
- G. AC PAVEMENT RESTORATION SHALL INCLUDE:
  - PROVIDE A NEAT, STRAIGHT RESTORATION EDGE ALONG THE ENTIRE AC RESTORATION LENGTH.
  - 4" AC PAVEMENT THICKNESS OR MATCH EXISTING, WHICHEVER IS GREATER.
  - 6" AGGREGATE BASE COURSE OR MATCH EXISTING, WHICHEVER IS GREATER.
  - COMPACT SUBGRADE BELOW AGGREGATE BASE COURSE TO 95% MODIFIED PROCTOR DENSITY.
- H. EXISTING WATER LINE LOCATION SHOWN IS APPROXIMATE AND BASED ON AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER IF FOUND TO VARY FROM PLAN.



1 CONCRETE SIDEWALK WIDTH EXTENSION  
SCALE: 1"=5'

100% SUBMITTAL



DESIGNED: SS  
 DRAWN: CBD  
 CHECKED: SKK

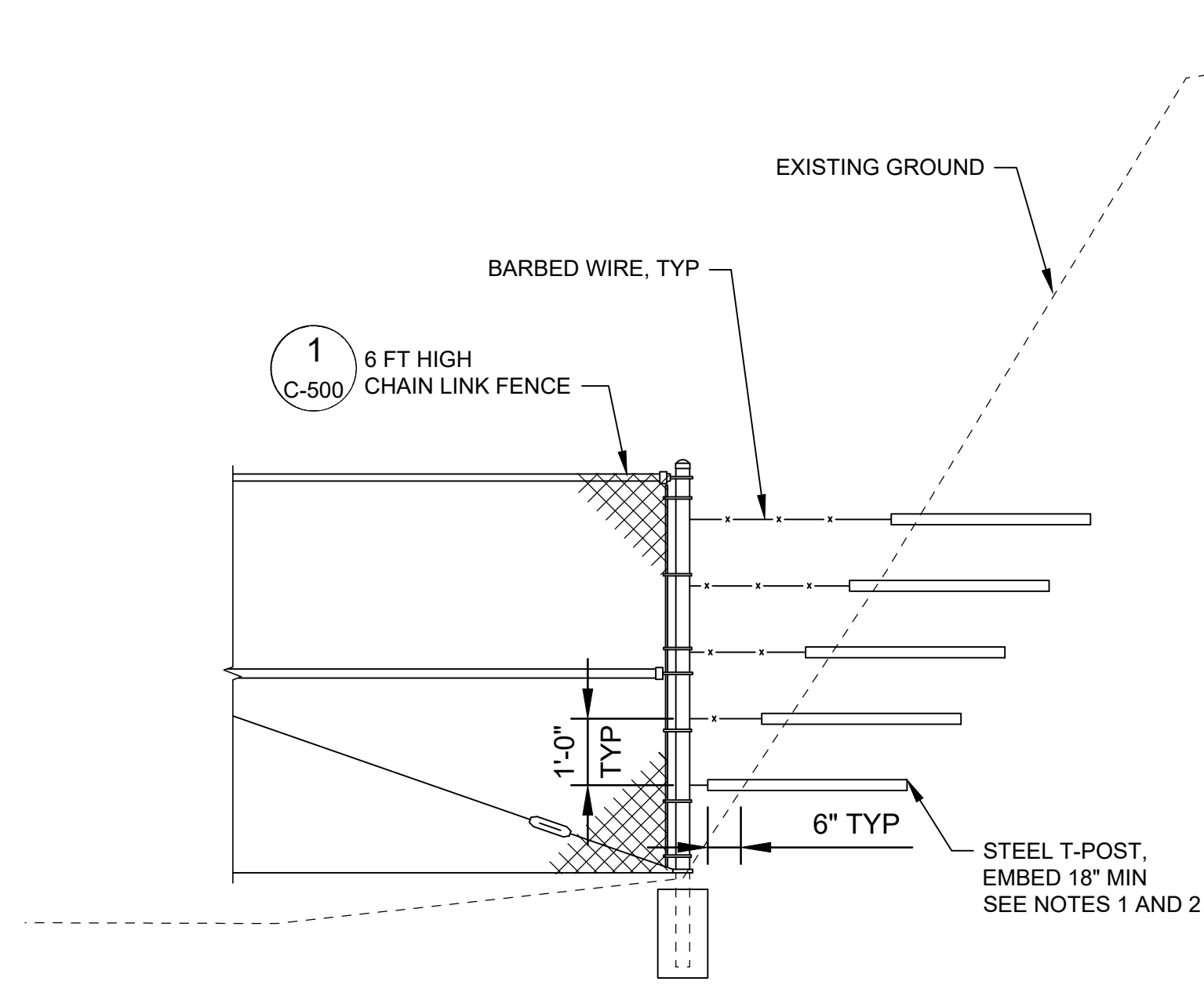
COUNTY OF KAUAI  
 DEPARTMENT OF WATER  
 LIHU'E ADMINISTRATIVE BUILDING FENCING



SITE DETAILS - III

SCALE: AS SHOWN  
 JOB NO: 2367009.02  
 DATE: SEPTEMBER 2024  
 SHEET 9 OF 18  
 C-103

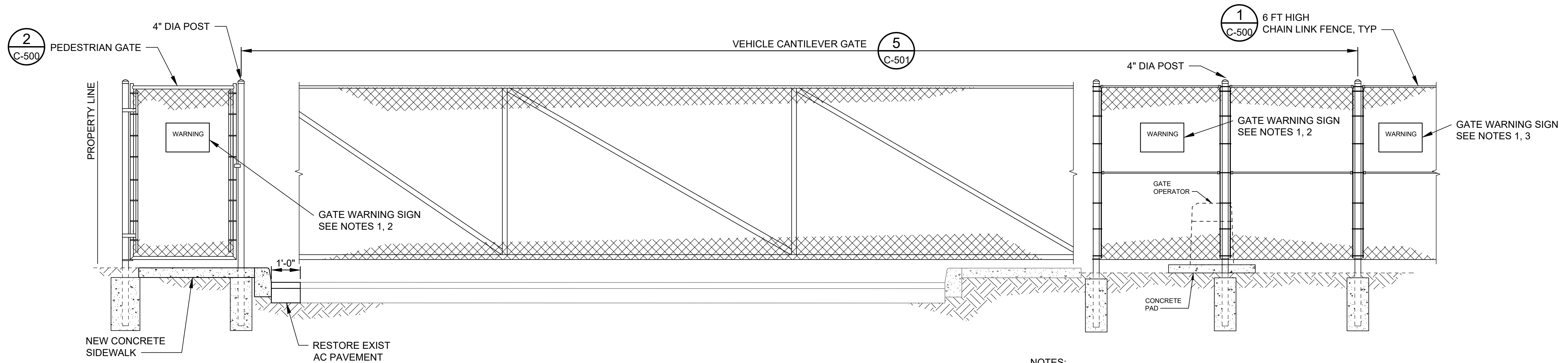




NOTES

1. STUDDED STEEL T-POST, 1.25 POUND PER FOOT WITH ANCHOR.
2. CUT STEEL POST LENGTHS AS REQUIRED TO PROVIDE POST DIMENSIONS INDICATED ON THE DRAWING.

**A** SECTION  
C-102 SCALE: 1/2"=1'-0"

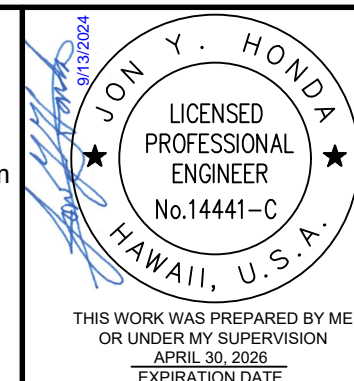
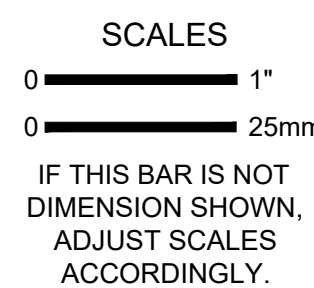


NOTES:

1. SEE SPECIFICATIONS FOR SIGN WORDING AND OTHER REQUIREMENTS
2. PLACE ONE SIGN FACING TO INTERIOR OF FENCE, AND ONE SIGN FACING TO EXTERIOR OF FENCE.
3. PLACE ONE SIGN FACING TO INTERIOR OF FENCE.

**B** SECTION  
C-103 SCALE: 1/2"=1'-0"

100% SUBMITTAL



DESIGNED: SS  
 DRAWN: CBD  
 CHECKED: SKK

COUNTY OF KAUAI  
 DEPARTMENT OF WATER  
 LIHUE ADMINISTRATIVE BUILDING FENCING



SITE SECTIONS

SCALE: AS SHOWN  
 JOB NO: 2367009.02  
 DATE: SEPTEMBER 2024  
 SHEET 10 OF 18  
 C-201

NO	REVISION	DATE	BY

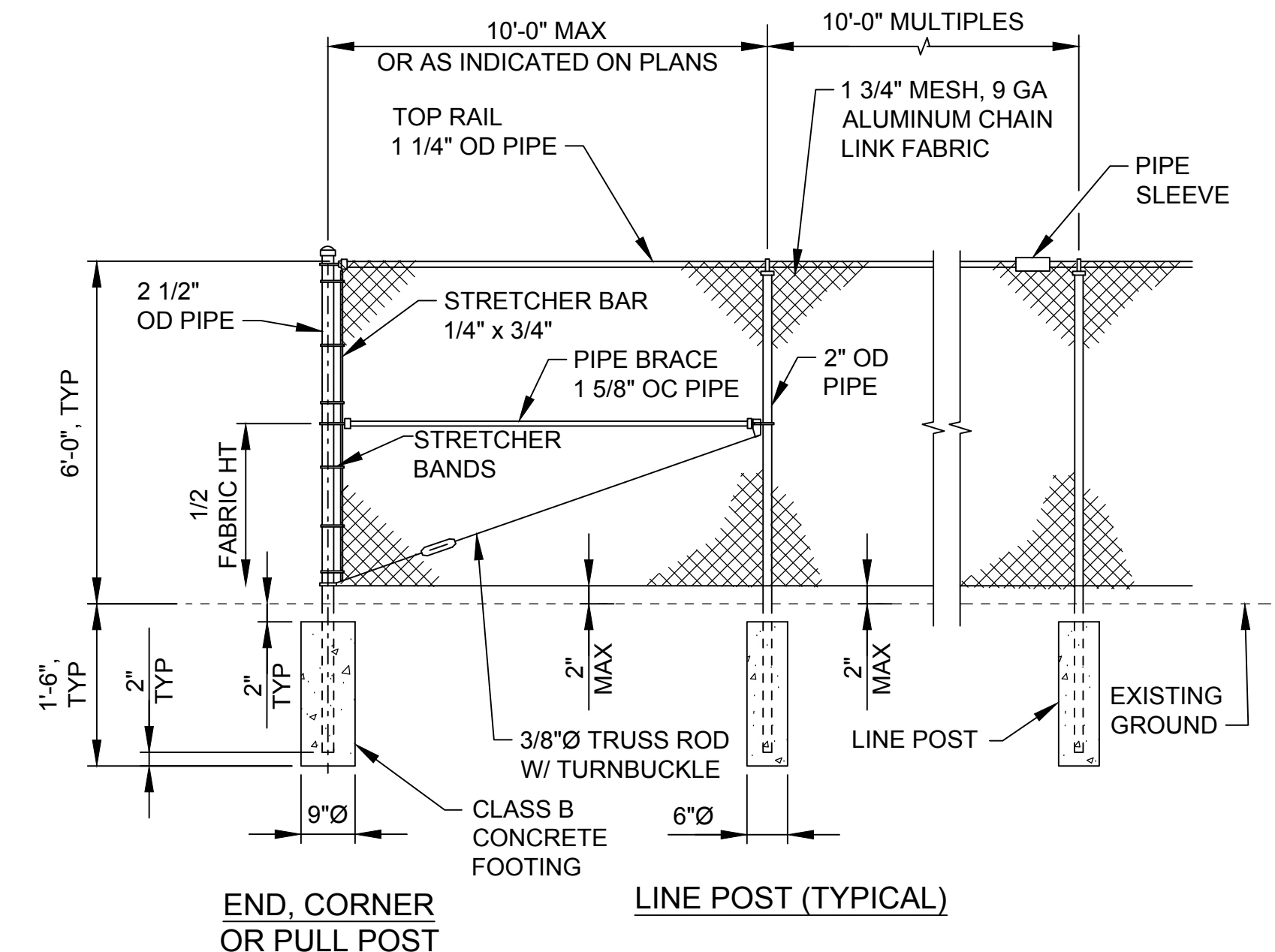


Plot Date: 9/13/2024 10:43 AM

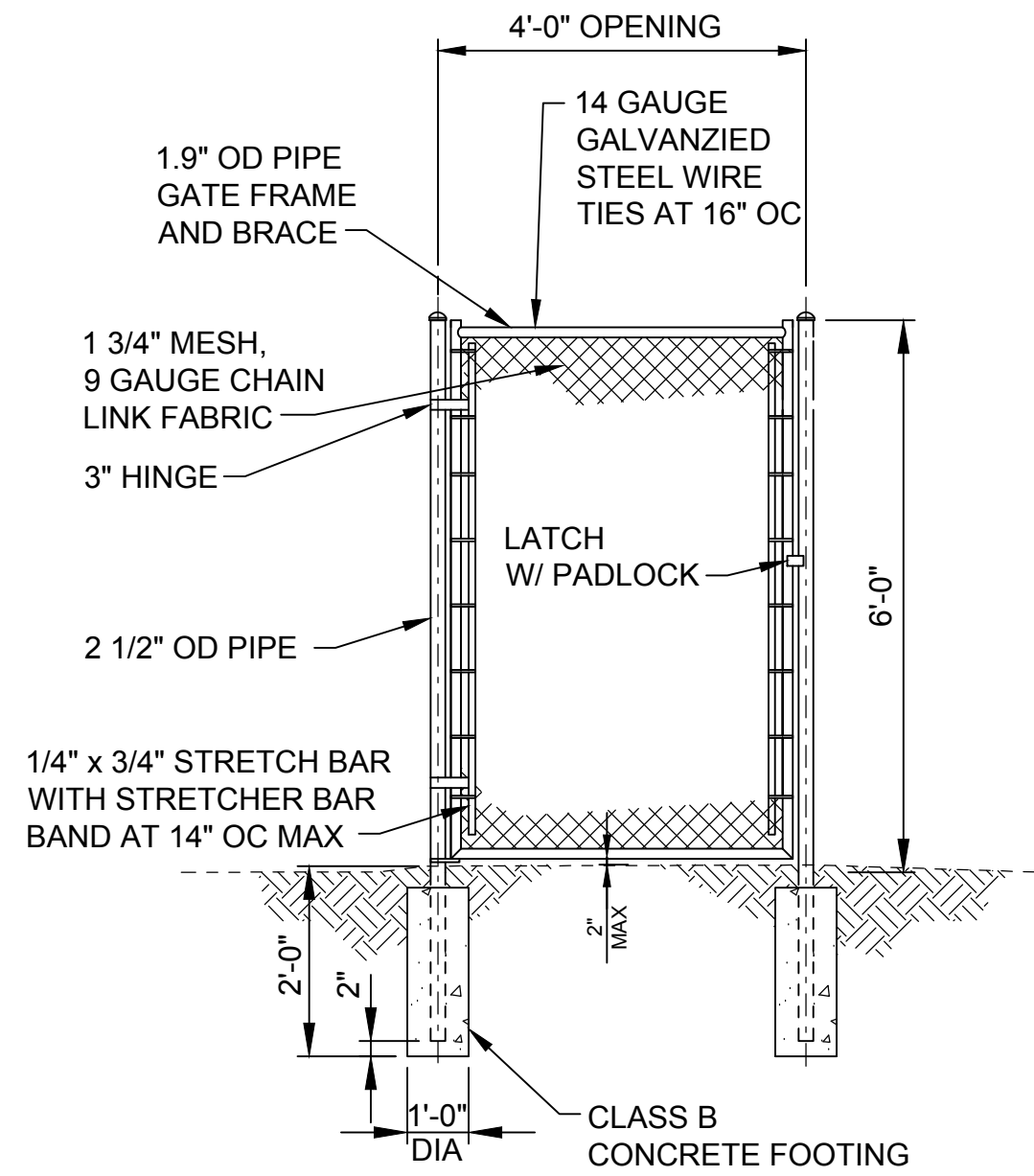
User: CLARRISSA DEOCARES

p:\kpc-pw\Documents\Clients\Kauai County of HI\Kauai Dept of Water\Projects\Lihue Base Yard Fencing (PAO 2)\_2367009.02\10-Design\10.06-Drawings\Civil\2367009\_02-C500.DWG

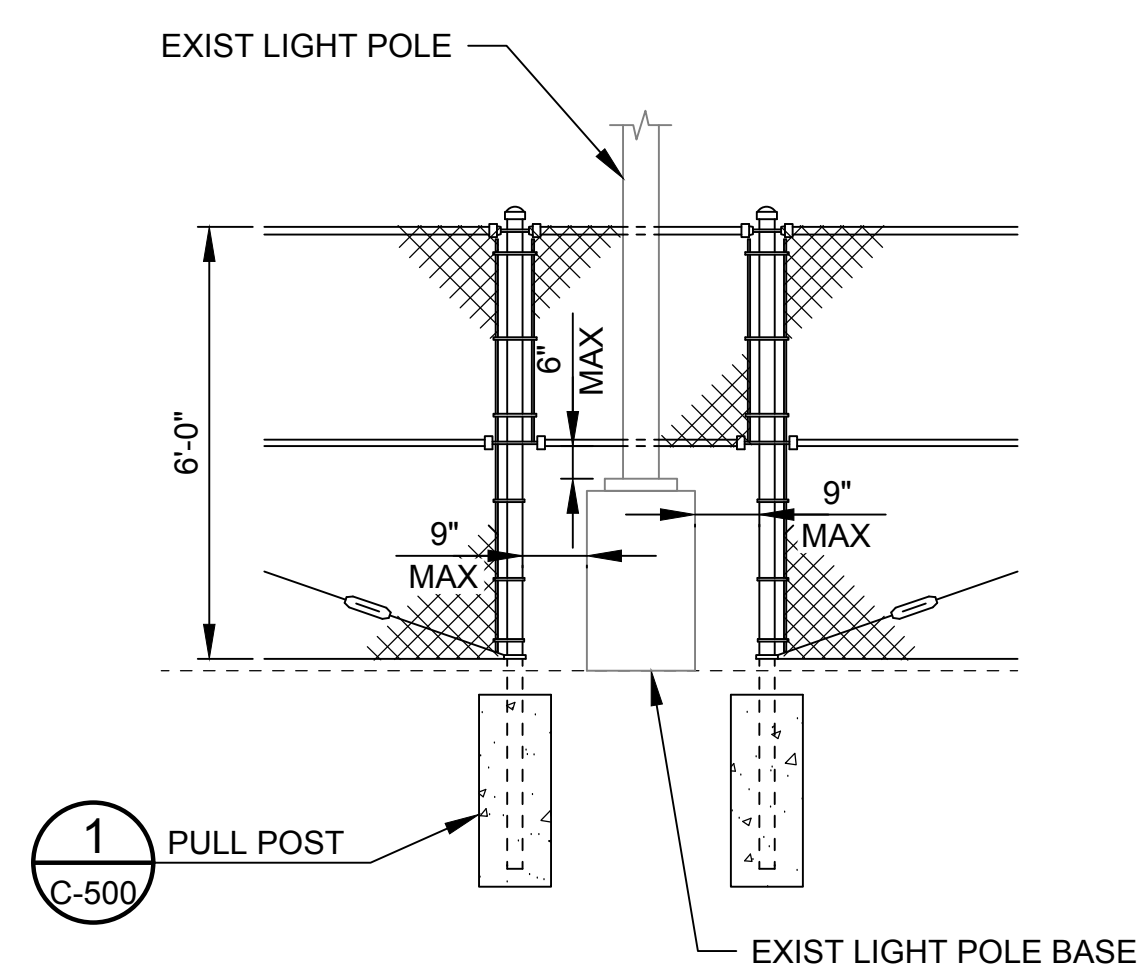
- GENERAL SHEET NOTES**
1. ALL MATERIAL TO CONFORM TO FEDERAL SPEC RR-F-191G(1-25-74).
  2. ALL GALVANIZED FITTINGS TO CONFORM TO ASTM-A153.
  3. PROVIDE TENSION BAR BANDS AND TRUSS ROD AND TIGHTENERS AT CORNERS.
  4. CONTRACTOR TO PROVIDE SHOP DRAWING FOR VEHICLE ENTRANCE GATE SHOWING LOCATION OF GATE OPERATOR AND SAFETY DEVICES.



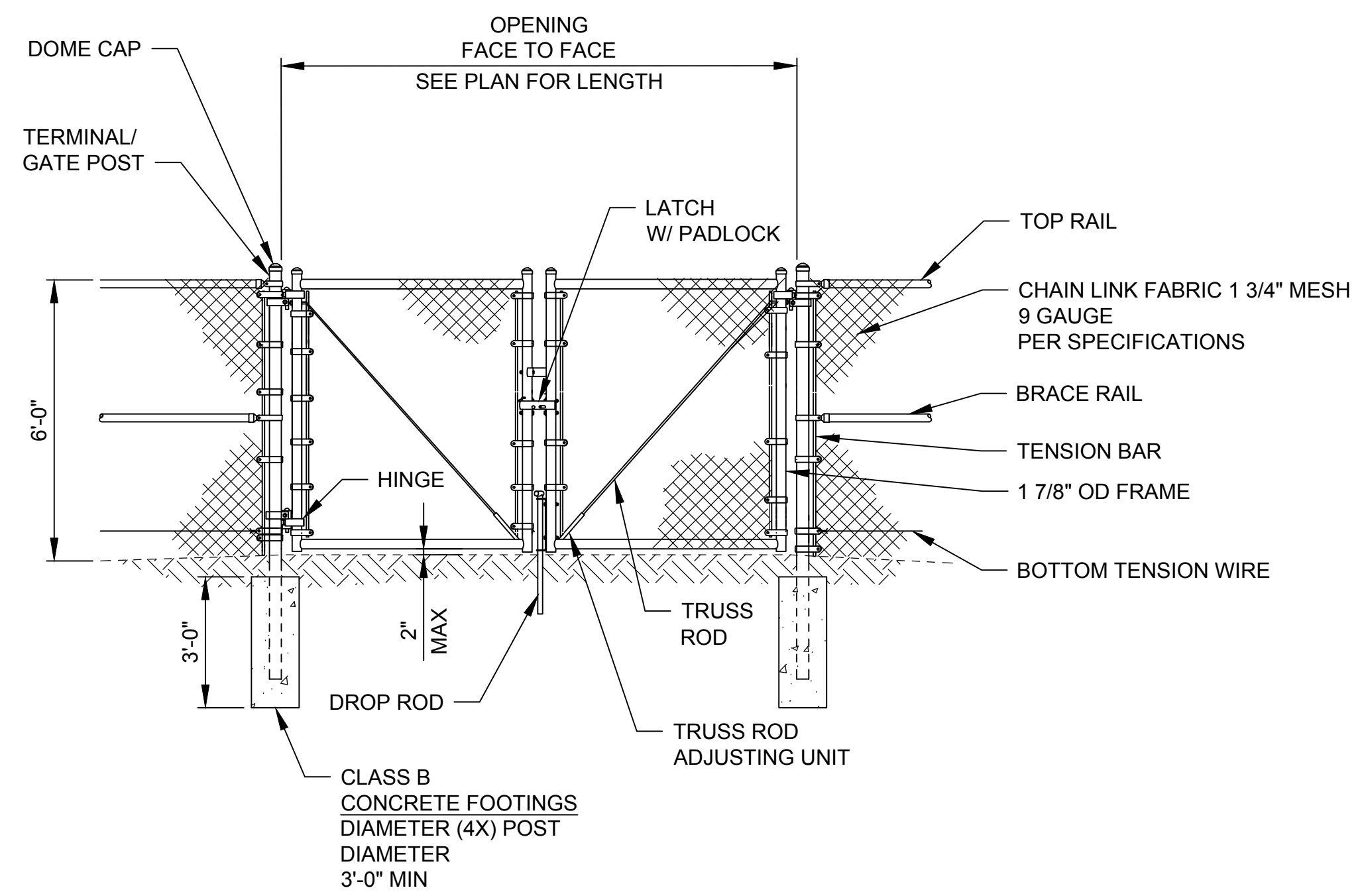
**1 PERIMETER FENCE**  
SCALE: NTS



**2 PEDESTRIAN GATE**  
SCALE: NTS

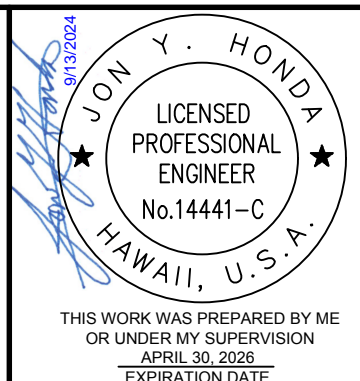
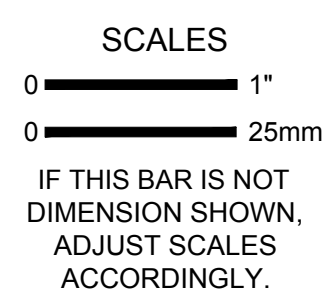


**3 FENCE AT LIGHT POLE**  
SCALE: NTS



**4 DOUBLE LEAF SWING GATE**  
SCALE: NTS

100% SUBMITTAL



DESIGNED: SS  
DRAWN: CBD  
CHECKED: SKK

COUNTY OF KAUA'I  
DEPARTMENT OF WATER  
**LĪHUE ADMINISTRATIVE BUILDING FENCING**  
Kennedy Jenks

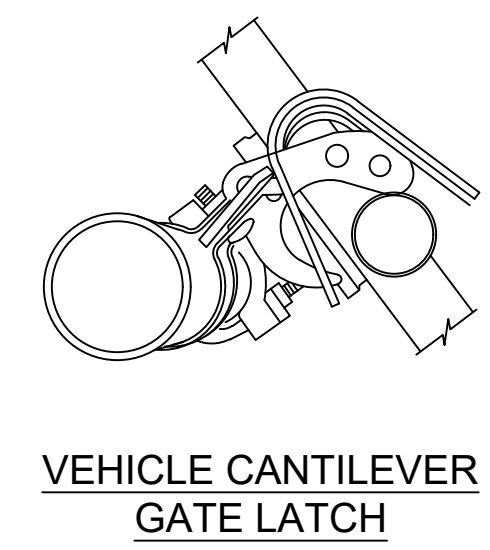
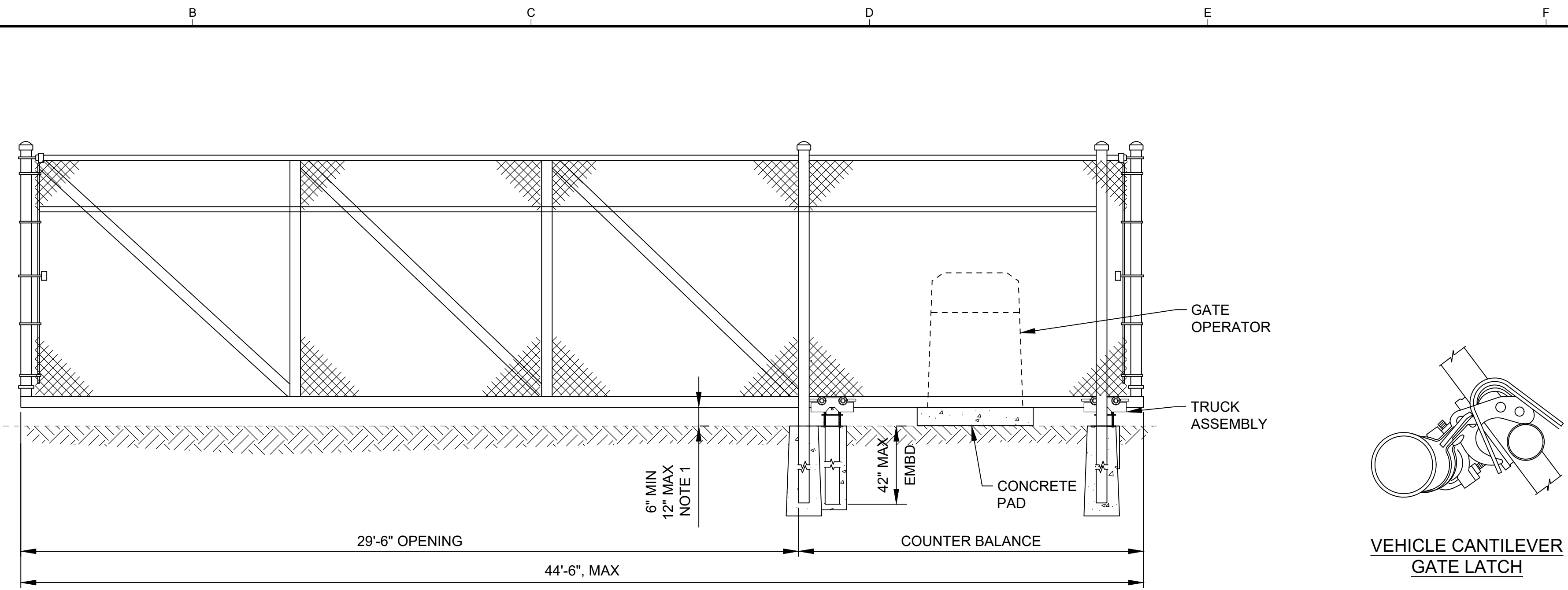
CIVIL DETAILS - I

SCALE: AS SHOWN  
JOB NO: 2367009.02  
DATE: SEPTEMBER 2024  
SHEET 11 OF 18  
C-500

Plot Date: 9/16/2024 7:59 AM

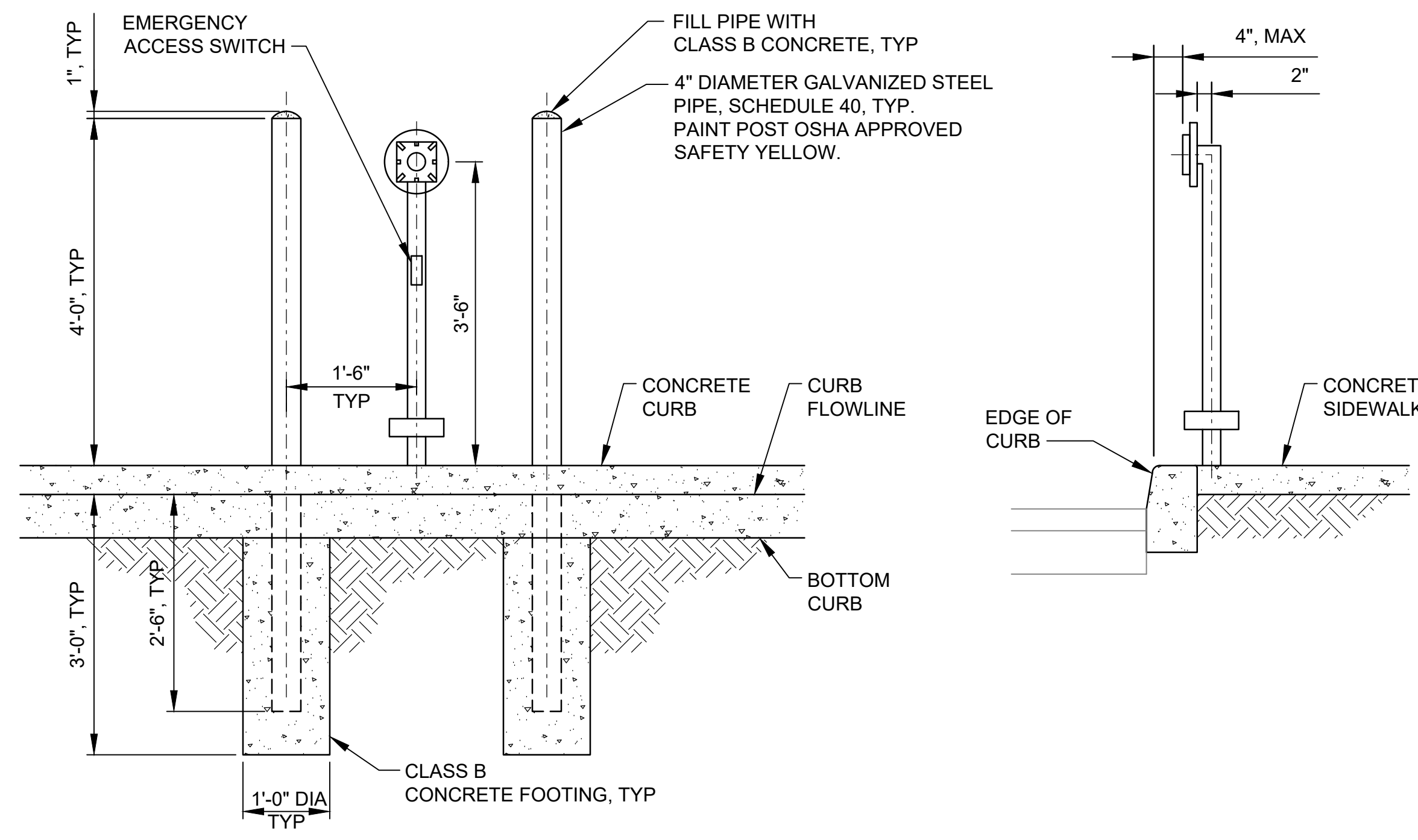
User: JON HONDA

p:\kpc-pw\Documents\Clients\Kauai County of HI\Kauai Dept of Water\Projects\Lihue Base Yard Fencing (PAO 2)\_2367009.02\10-Design\10.06-Drawings\Civil\2367009\_02-C501.DWG

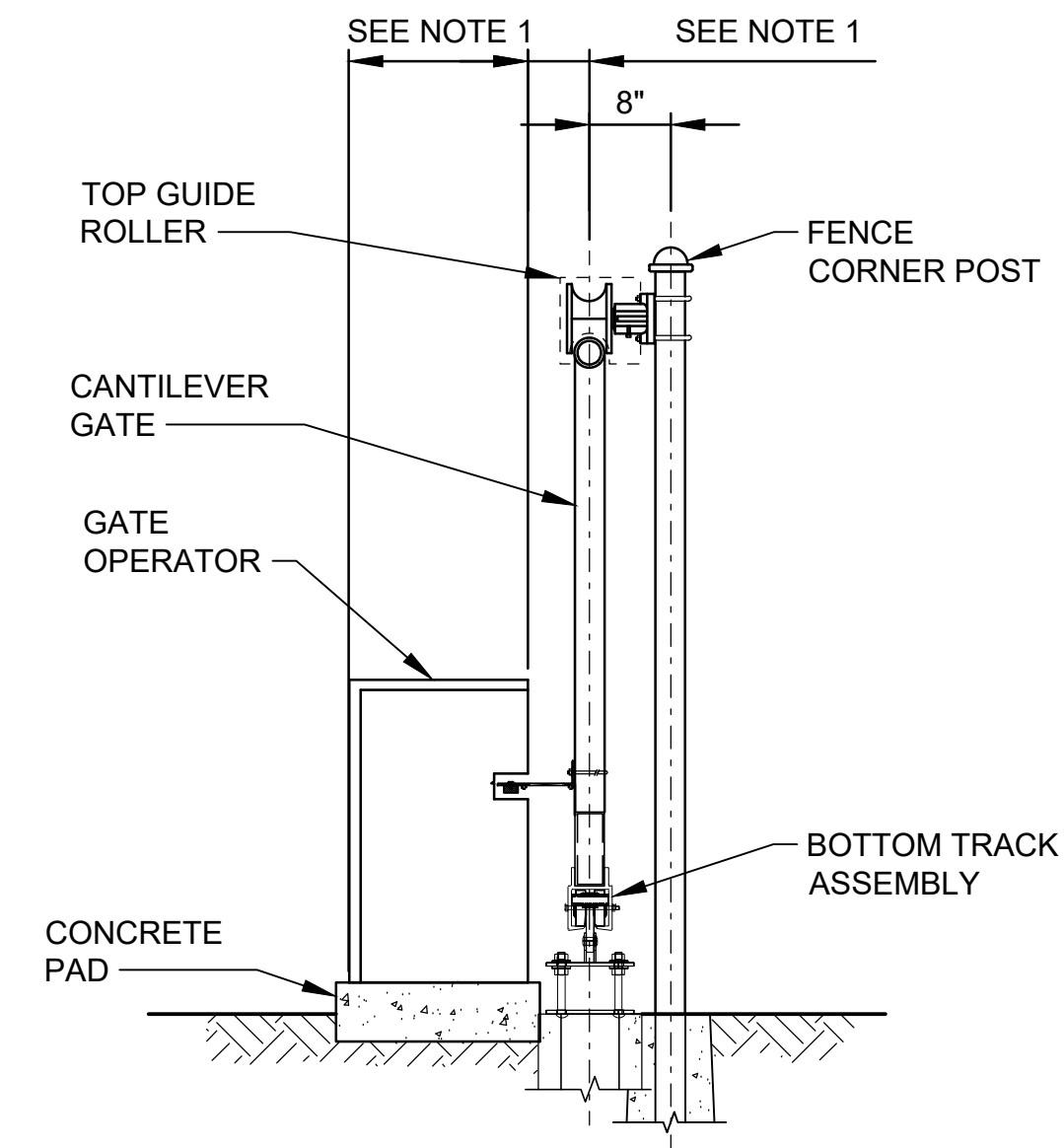


**5** VEHICLE CANTILEVER GATE  
VAR SCALE: NTS

NOTE  
1. FIELD VERIFY GATE CLEARANCE ACROSS ENTIRE SLIDE GATE PATH PRIOR TO FABRICATION

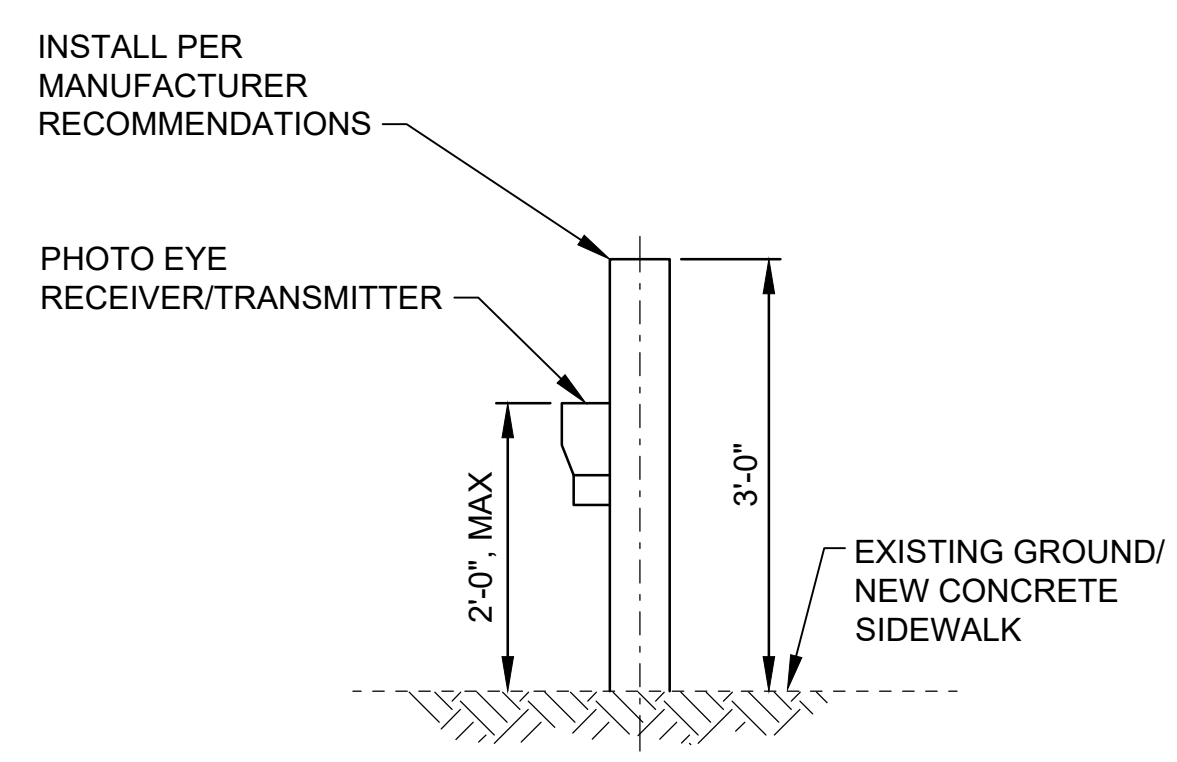


**6** LOW PROFILE GOOSENECK AND BOLLARDS  
VAR SCALE: NTS



NOTE  
1. PROVIDE PER MANUFACTURER'S RECOMMENDATIONS.

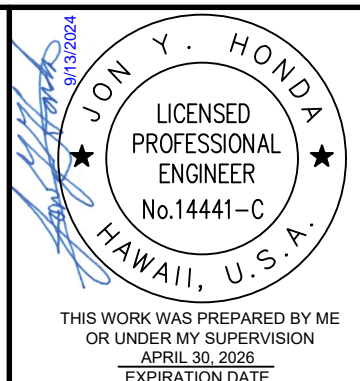
**7** GATE OPERATOR  
VAR SCALE: NTS



**8** PHOTO EYE RECEIVER/TRANSMITTER  
VAR SCALE: NTS

100% SUBMITTAL

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



DESIGNED: SS  
DRAWN: CBD  
CHECKED: SKK

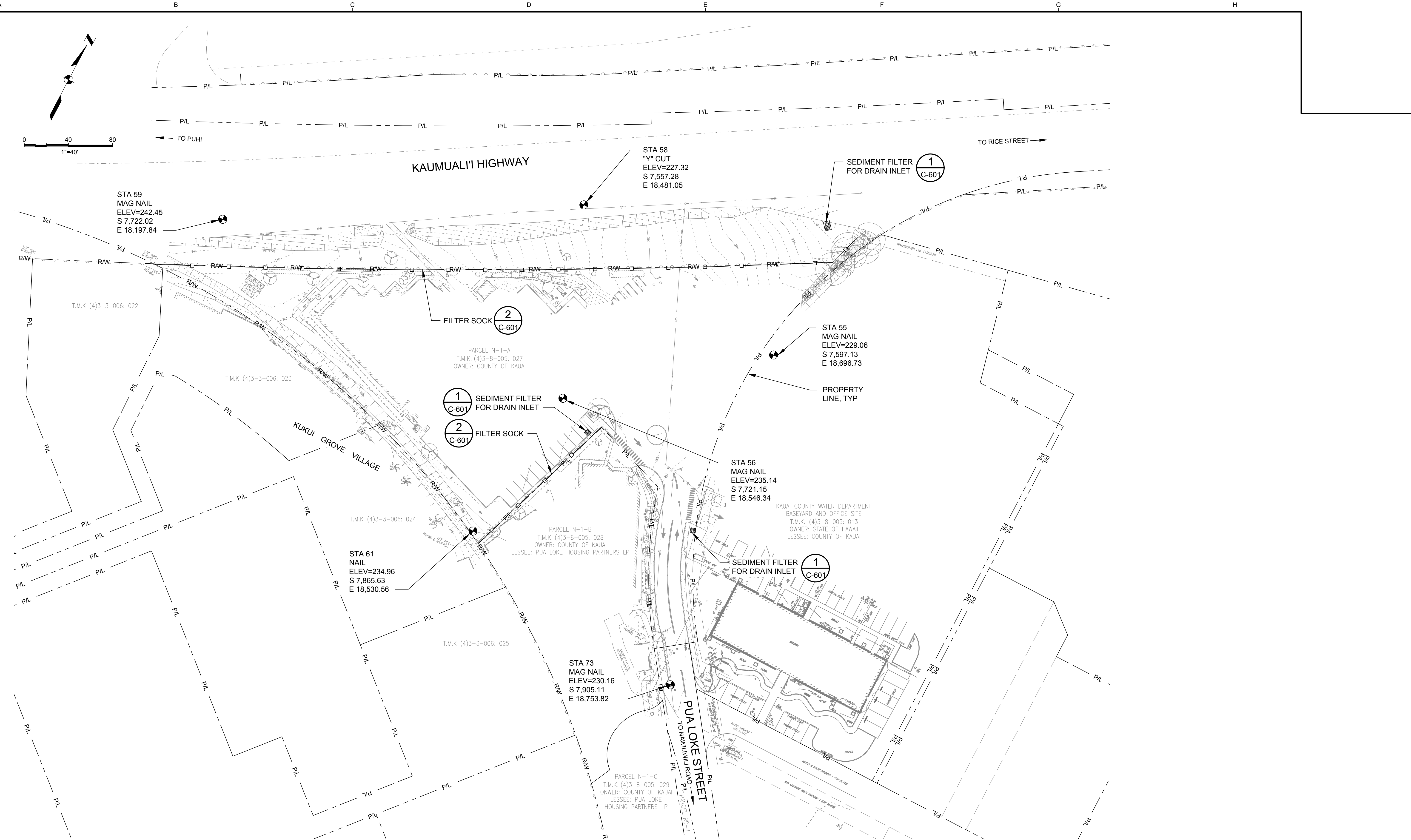
COUNTY OF KAUA'I  
DEPARTMENT OF WATER  
LIHU'E ADMINISTRATIVE BUILDING FENCING  
Kennedy Jenks

CIVIL DETAILS - II  
SCALE: AS SHOWN  
JOB NO: 2367009.02  
DATE: SEPTEMBER 2024  
SHEET 11 OF 18  
C-501

NO	REVISION	DATE	BY



Plot Date: 9/12/2024 11:52 AM  
User: CLARRISSA DEOCAIRES  
p:\kpc-pw\Documents\Clients\Kauai County of HI\Kauai Dept of Water\Projects\Iiue Base Yard Fencing (PAO 2)\_2367009.02\10-Design\10.06-Drawings\Civil\2367009\_02-C600.DWG



**100% SUBMITTAL**

NO	REVISION	DATE	BY

**SCALES**  
0 1" = 40'  
0 25mm  
IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.



DESIGNED: SS  
DRAWN: CBD  
CHECKED: SKK

COUNTY OF KAUAI  
DEPARTMENT OF WATER  
**LĪHU'E ADMINISTRATIVE BUILDING FENCING**  
Kennedy Jenks

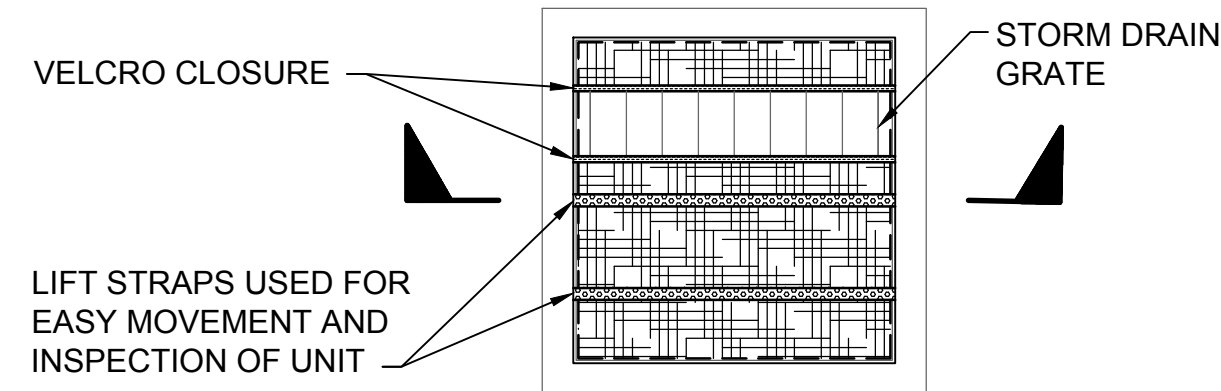
**EROSION AND SEDIMENT CONTROL PLAN**  
SCALE: 1" = 40'  
JOB NO: 2367009.02  
DATE: SEPTEMBER 2024  
SHEET 13 OF 18  
C-600



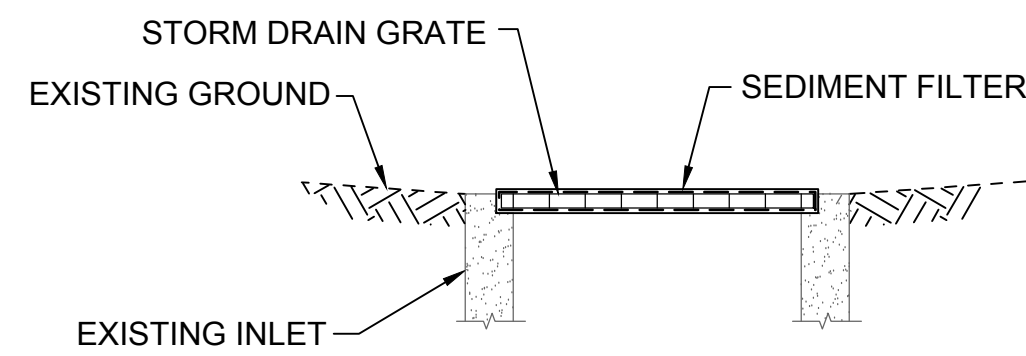
Plot Date: 9/6/2024 8:11 AM

User: CLARISSA DEOCARES

p:\kpc-pw\Documents\Clients\Kauai County of HI\Kauai Dept of Water\Projects\Lihu Base Yard Fencing (PAO 2)\_2367009.02\10-Design\10.06-Drawings\Civil\2367009\_02-C601.DWG



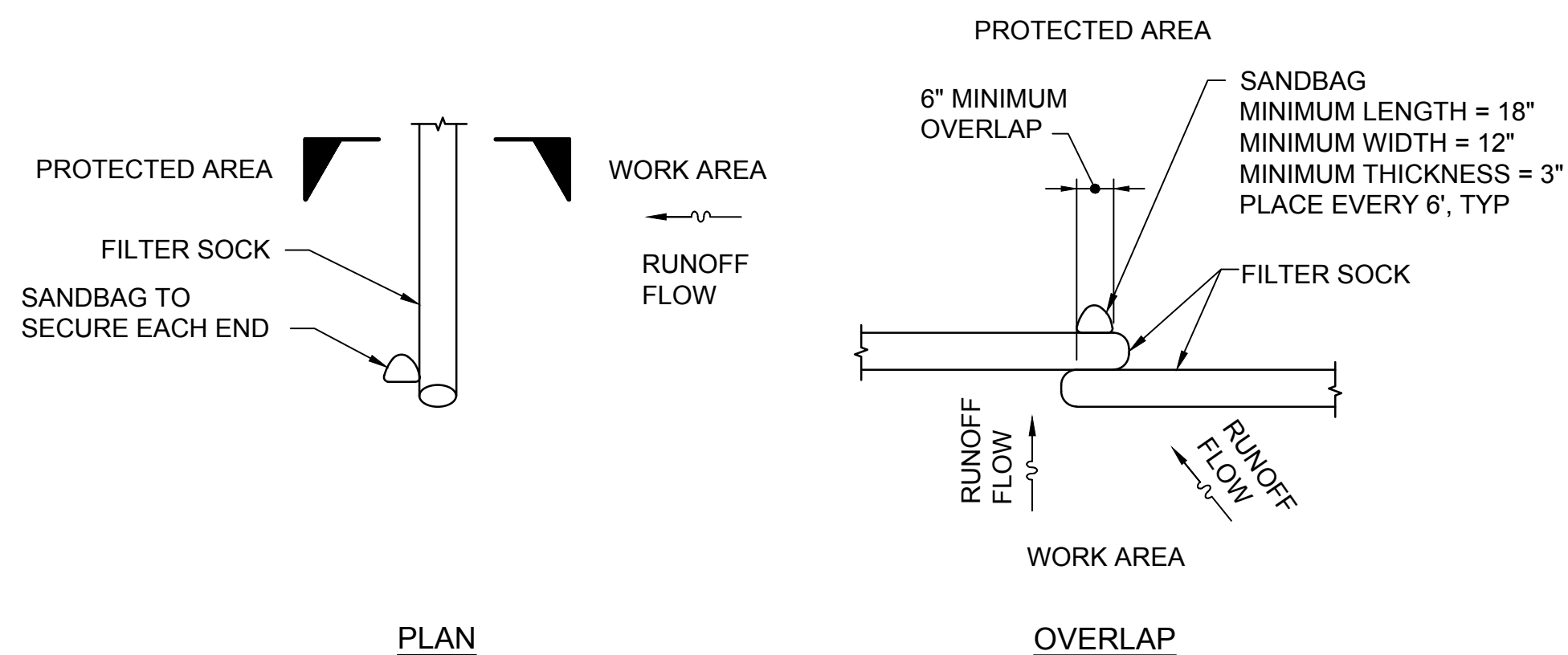
PLAN



SECTION

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	kN (lbs)	1.62 (365) x 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 x 10
PUNCTURE STRENGTH	ASTM D 4833	kN (lbs)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	kPa (psi)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	kN (lbs)	0.51 (115) x 0.33 (75)
UV RESISTANCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	Mm (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	1 / MIN / M <sup>2</sup> (GAL / MIN / FT) <sup>2</sup>	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC <sup>-1</sup>	2.1

**1** SEDIMENT FILTER FOR DRAIN INLETS  
C-600 SCALE: NTS



PLAN

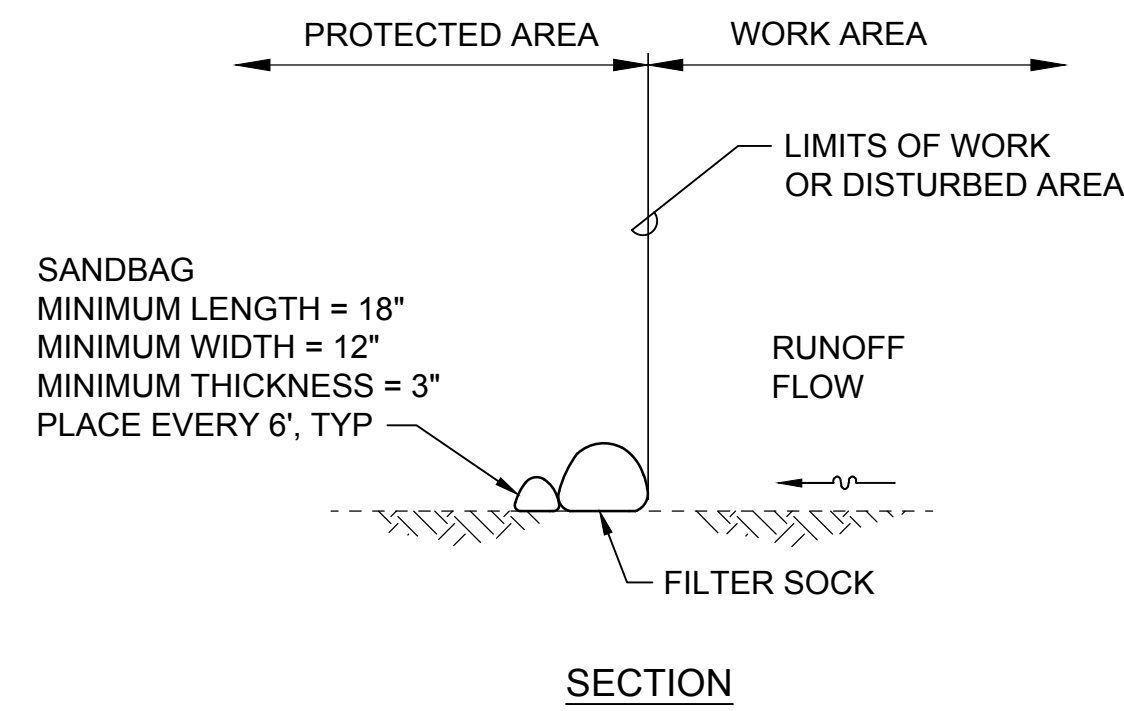
OVERLAP

**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.



SECTION

**2** FILTER SOCK  
C-600 SCALE: NTS

**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**

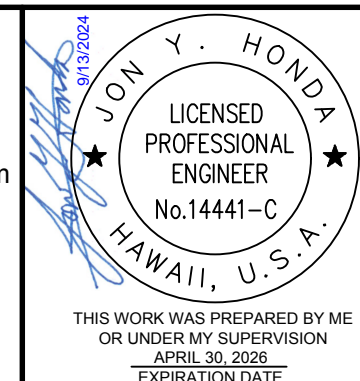
1. THE CONTRACTOR SHALL INSTALL DEVICES AND UTILIZE BEST MANAGEMENT PRACTICES (BMP) APPROPRIATE FOR THE PROJECT. THE CONTRACTOR SHALL REFERENCE THE CITY AND COUNTY OF HONOLULU'S "BEST MANAGEMENT PRACTICES MANUAL FOR CONSTRUCTION SITES IN HONOLULU", "RULES RELATING TO SOIL EROSION STANDARDS AND GUIDELINES" AND THE "INTERIM BEST MANAGEMENT PRACTICES MANUAL FOR CONSTRUCTION SITES FOR THE COUNTY OF KAUAI, 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.

100% SUBMITTAL

**SCALES**



IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.



DESIGNED SS  
DRAWN CBD  
CHECKED SKK

COUNTY OF KAUAI  
DEPARTMENT OF WATER

LĪHU'E ADMINISTRATIVE BUILDING FENCING



EROSION AND SEDIMENT CONTROL  
DETAILS AND NOTES

SCALE AS SHOWN  
JOB NO 2367009.02  
DATE SEPTEMBER 2024  
SHEET 14 OF 18  
C-601



# 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
	ELECTRICAL CONNECTION
	JUNCTION BOX, CEIL. MTD., 4-11/16" NOM.
	JUNCTION BOX, WALL MTD., 4-11/16" NOM.
	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 E-002 FOR DUCT SECTION DETAILS
	EXISTING CONDUIT
	UNDERGROUND CONDUIT
	CONDUIT EXPOSED
	FLEXIBLE METALLIC CONDUIT
	HOMERUN TO PANEL OR AS INDICATED
	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:

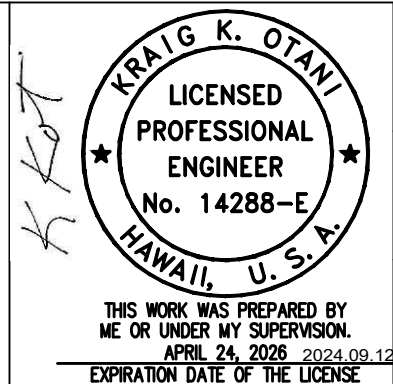
- PLANS DO NOT INDICATE COMPLETE EXISTING ELECTRICAL CONDITIONS. CONTRACTOR SHALL VISIT JOBSITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND EXTENT OF ALL WORK PRIOR TO THE START OF CONSTRUCTION.
- PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL VISIT JOBSITE AND REPORT ANY DISCREPANCIES AND/OR DIFFERENCE IN DRAWINGS, WITH RESPECT TO EXISTING CONDITIONS, TO THE CONTRACTING OFFICER.
- 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.
- WHERE POSSIBLE CONCEAL ALL RACEWAYS IN WALL OR ABOVE CEILINGS. WHERE RACEWAYS AND BOXES ARE EXPOSED, PAINT RACEWAYS AND BOXES TO MATCH ADJACENT FINISH.
- BEFORE ANY ELECTRICAL WIRING IS CUT, CONTRACTOR SHALL VERIFY USAGE OF WIRING TO ENSURE THAT REQUIRED SERVICES ARE NOT DISCONTINUED.
- 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.
- 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.
- PROVIDE POLYOLEFIN 200LB TEST PULLCORD IN ALL EMPTY CONDUITS, UNLESS OTHERWISE NOTED.
- ALL ELECTRICAL EQUIPMENT ENCLOSURES AND EQUIPMENT MOUNTING HARDWARE AND FASTENERS FOR OUTDOOR INSTALLATION SHALL BE TYPE 316 STAINLESS STEEL, UNLESS OTHERWISE NOTED.
- 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.
- 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.

100% SUBMITTAL

### SCALES

0 ——— 1"  
 0 ——— 25mm

IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.



DESIGNED  
VSG

DRAWN  
VSG

CHECKED  
KKO

COUNTY OF KAUA'I  
DEPARTMENT OF WATER

LĪHU'E ADMINISTRATIVE BUILDING FENCING



ELECTRICAL SYMBOLS

SCALE

JOB NO  
2367009.02

DATE  
SEPTEMBER 2024

SHEET 15 OF 18

E-001



**DUCT SECTION BACKFILL NOTES:**

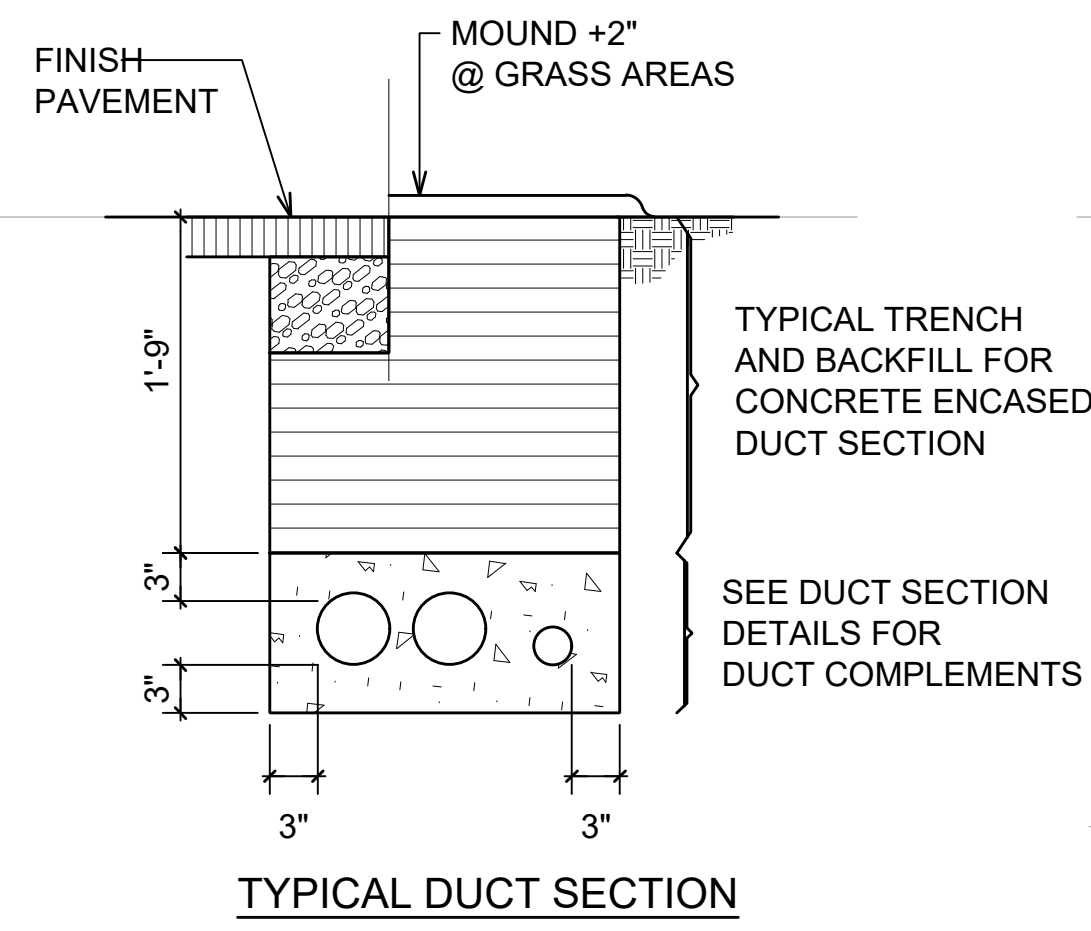
- TYPE "A" BACKFILL - EARTH & GRAVEL. ROCK SIZE TO BE 1" MAX. & THE MIXTURE TO CONTAIN NOT MORE THAN 50% BY VOLUME OF ROCK PARTICLES. 95% COMPACTION.
- TYPE "B" BACKFILL - EARTH & GRAVEL. MIXTURE MUST PASS A 1/2" MESH SCREEN & CONTAIN NOT MORE THAN 20% BY VOLUME OF ROCK PARTICLES. 95% COMPACTION.
- NOTE - 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.

MINIMUM "X" DIMENSION  
DUCT SEPARATION REQUIREMENTS

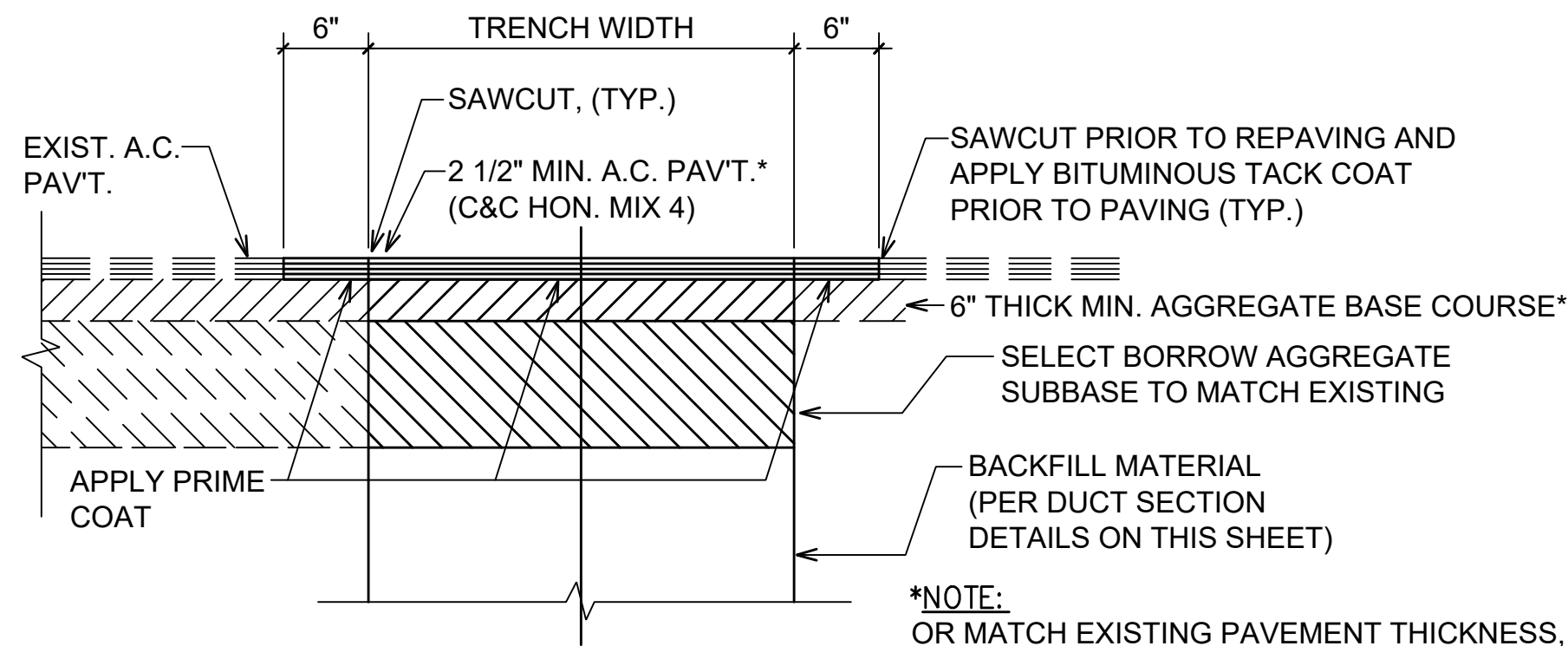
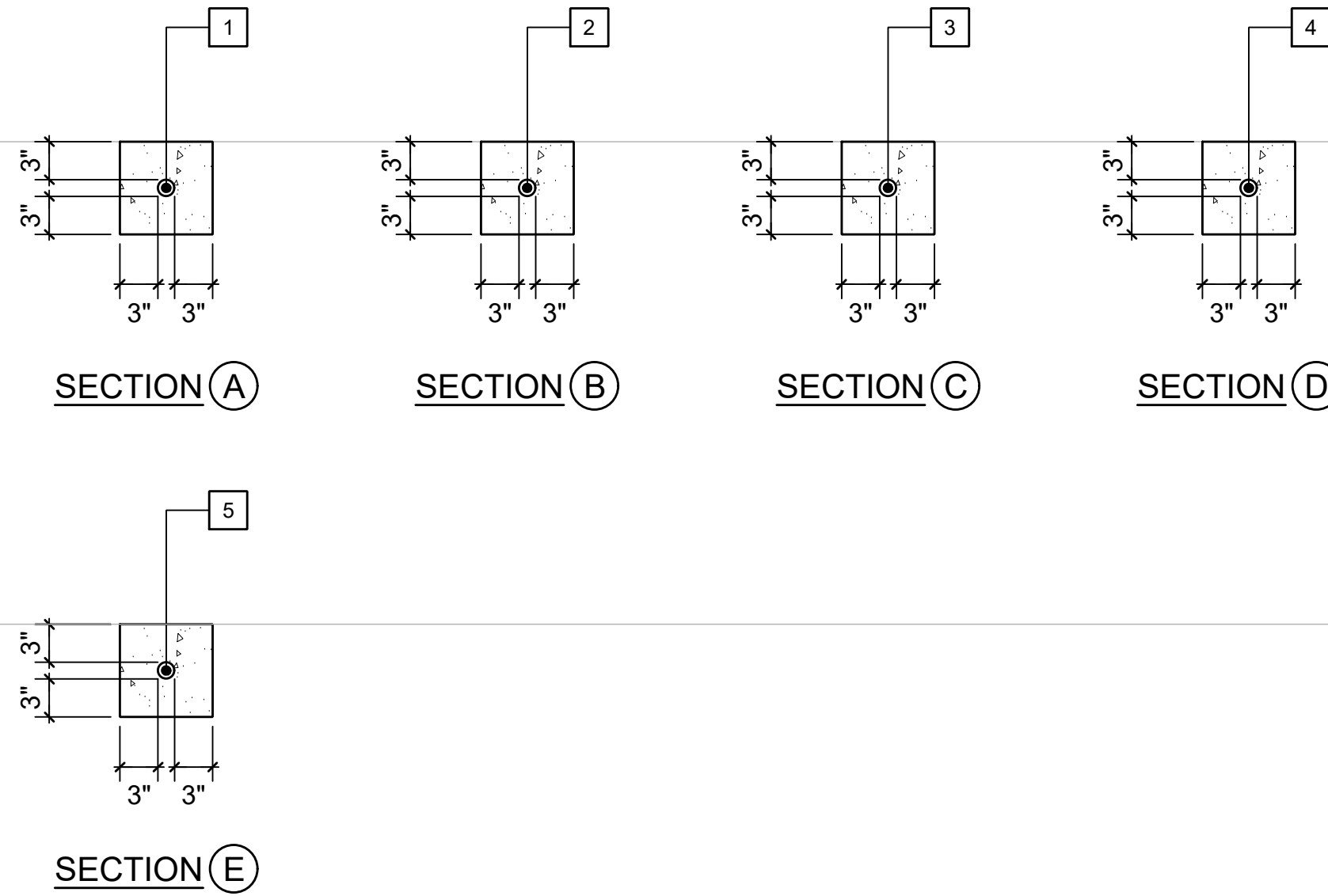
- ELEC - ELEC = 1 1/2"
- ELEC - TEL = 3"
- TEL - TEL = 1 1/2"
- ELEC - CTL/SIG = 3"
- TEL - CTL/SIG = 1 1/2"
- PWR - CTL/SIG = 3"
- ELEC - PWR = 1 1/2"
- TEL - PWR = 3"
- PWR - PWR = 1 1/2"
- CTL/SIG - CTL/SIG = 1 1/2"
- MINIMUM OF 3" CONCRETE ENCASEMENT AROUND DUCTBANK

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.



**DUCT SECTION**  
NTS



**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	1"	SEE ONE-LINE DIAGRAM	GATE MOTOR POWER
2	1"	CONFIRM WITH MANUF.	GATE CONTROLS
3	1"	CONFIRM WITH MANUF.	KEYPAD/CARD READER, EMERGENCY ACCESS SWITCH
4	1"	CONFIRM WITH MANUF.	ENTRAPMENT PROTECTION DEVICE
5	1"	PC	FUTURE TRAFFIC SENSOR

- 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.

100% SUBMITTAL

SCALES  
  
 IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.



DESIGNED VSG  
 DRAWN VSG  
 CHECKED KKO

COUNTY OF KAUA'I  
 DEPARTMENT OF WATER  
**LĪHU'E ADMINISTRATIVE BUILDING FENCING**

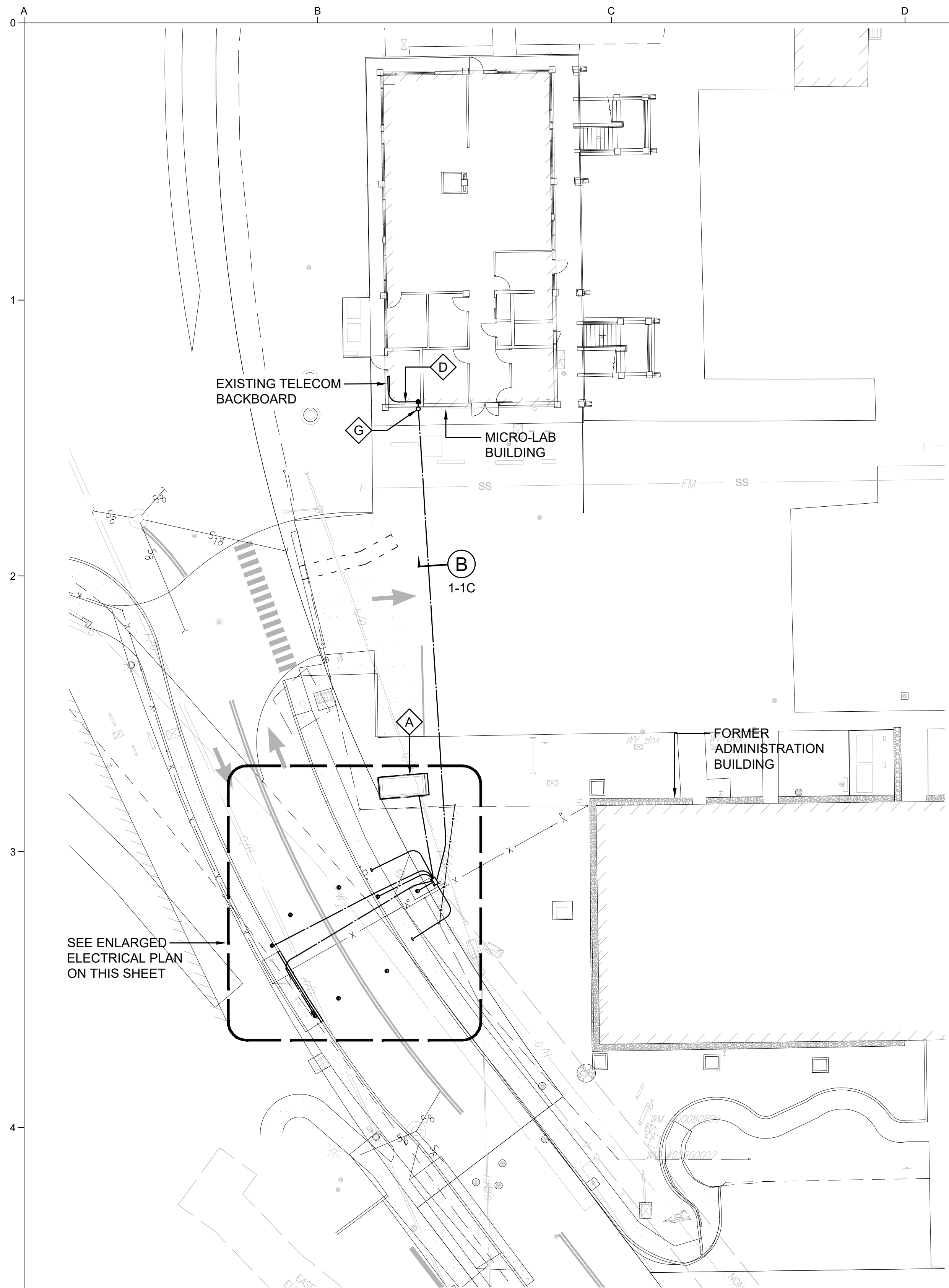


DUCT SECTIONS

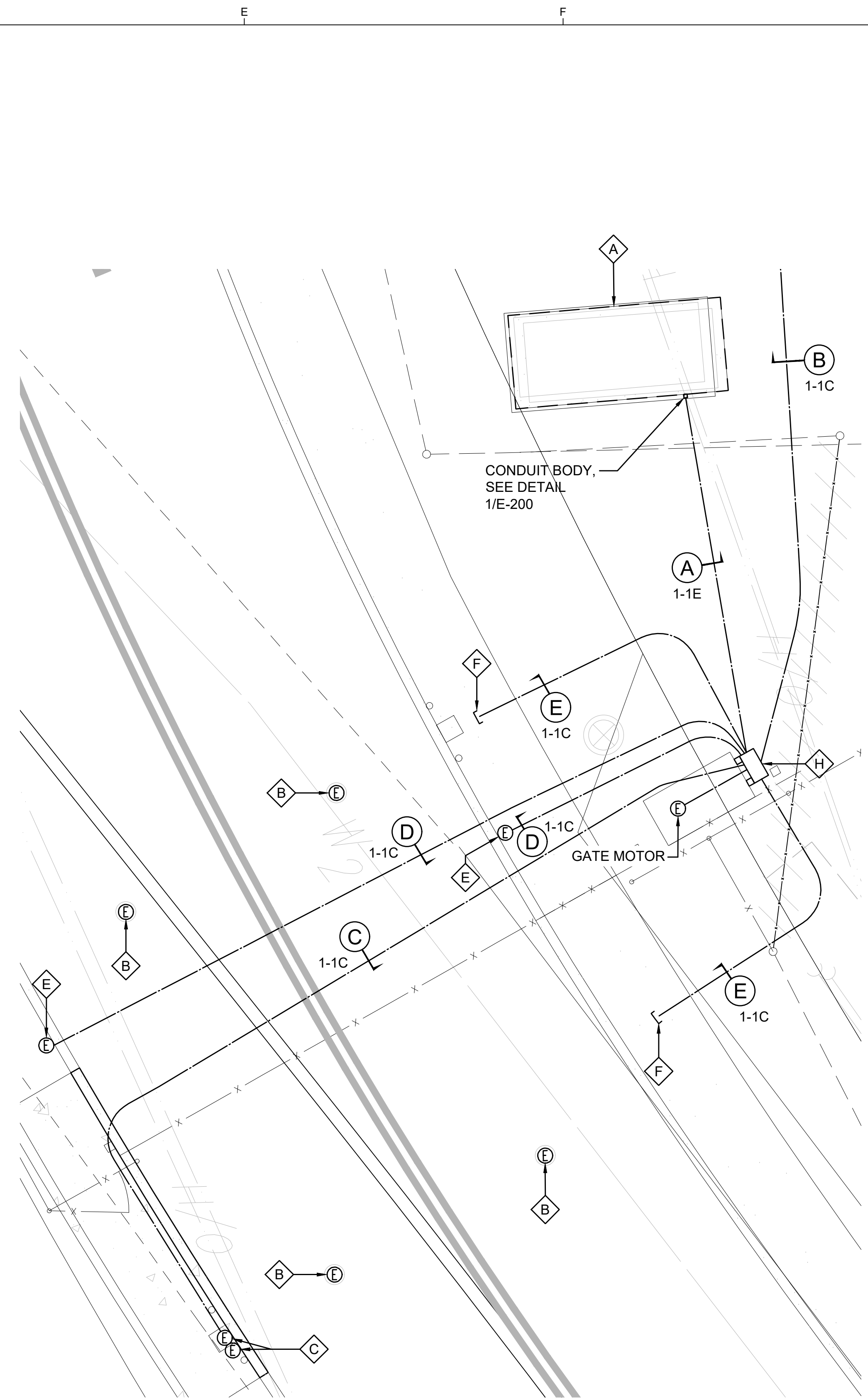
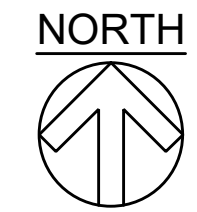
SCALE  
 JOB NO 2367009.02  
 DATE SEPTEMBER 2024  
 SHEET 16 OF 18  
**E-002**

NO	REVISION	DATE	BY





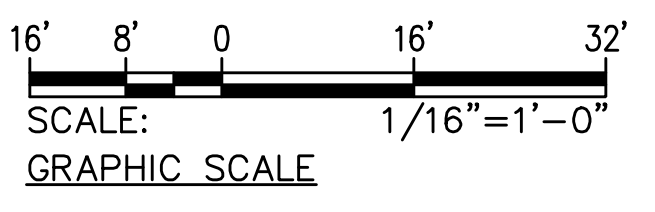
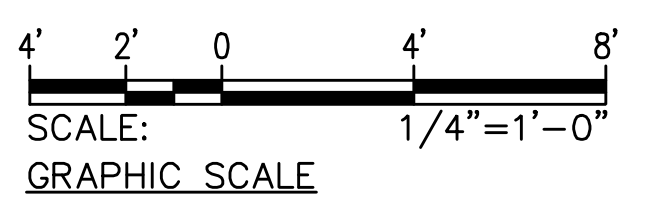
**ELECTRICAL SITE PLAN**  
SCALE: 1/16"=1'-0"



**ENLARGED ELECTRICAL PLAN**  
SCALE: 1/4"=1'-0"

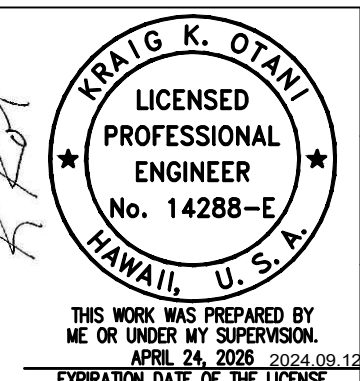


- ELECTRICAL PLAN NOTES:**
- ◊ A EXISTING SERVICE SWITCHBOARD.
  - ◊ B WIRELESS VEHICLE DETECTION SENSOR. CONFIRM EXACT QUANTITY, LOCATION AND REQUIREMENTS WITH MANUFACTURER INSTRUCTIONS.
  - ◊ C KEYPAD/CARD READER AND EMERGENCY ACCESS SWITCH. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH MANUFACTURER INSTRUCTIONS.
  - ◊ D 1" C TO TELECOM BACKBOARD FOR GATE CONTROLS. COORDINATE WIRING REQUIREMENTS WITH MANUFACTURER.
  - ◊ E ENTRAPMENT PROTECTION DEVICE. CONFIRM LOCATION AND REQUIREMENTS WITH MANUFACTURER INSTRUCTIONS.
  - ◊ F CONDUIT STUB OUT FOR FUTURE TRAFFIC SENSOR. SEE DETAIL 3/E-200.
  - ◊ G PATCH CONDUIT PENETRATION. PAINT TO MATCH SURROUNDING.
  - ◊ H 12"X12"X6" FREE-STANDING JUNCTION BOX. SEE DETAIL 2/E-200.



<b>100% SUBMITTAL</b>			
NO	REVISION	DATE	BY

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



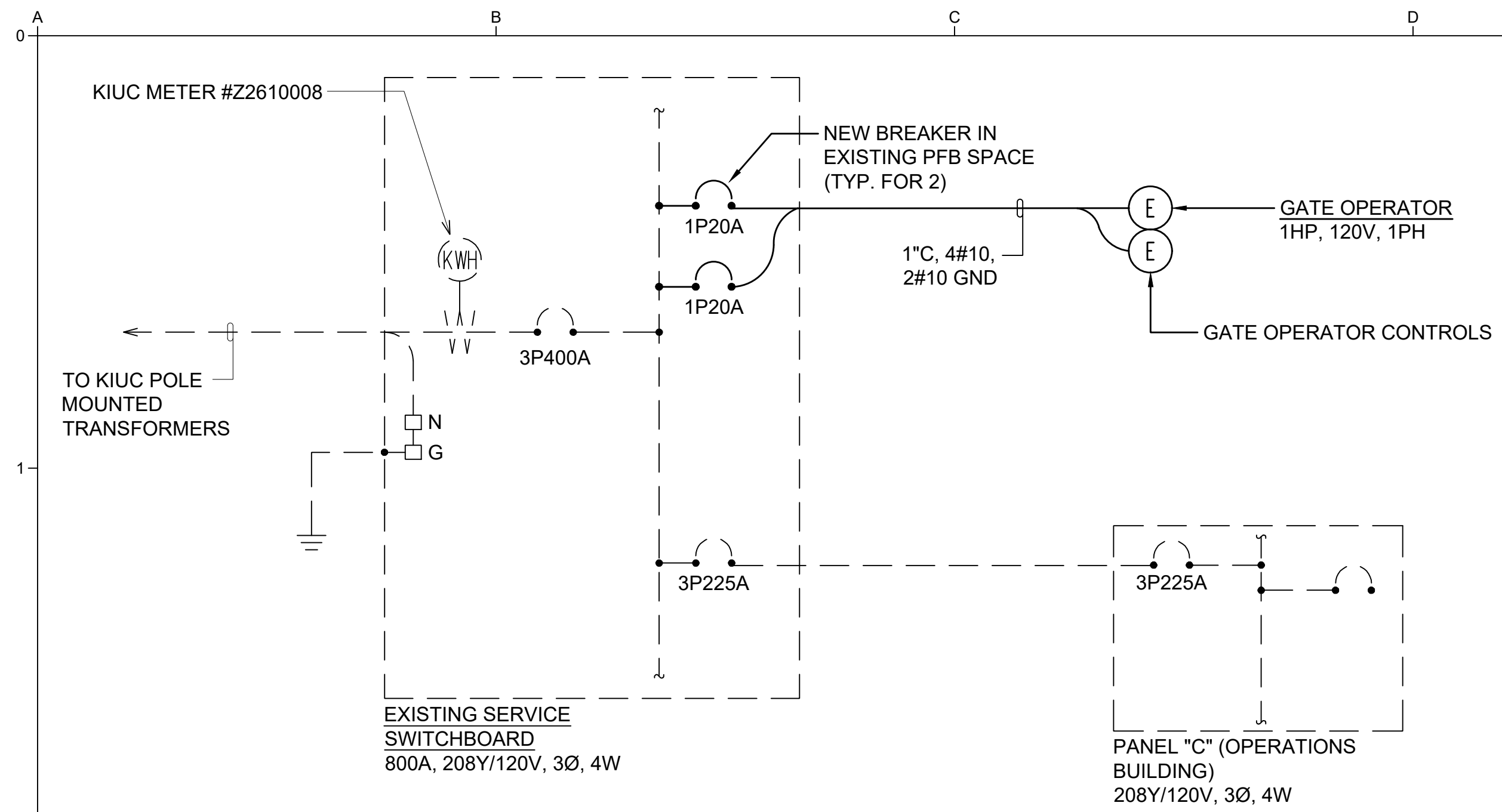
DESIGNED VSG  
 DRAWN VSG  
 CHECKED KKO

COUNTY OF KAUA'I  
 DEPARTMENT OF WATER  
**LĪHU'E ADMINISTRATIVE BUILDING FENCING**

**ELECTRICAL PLAN**

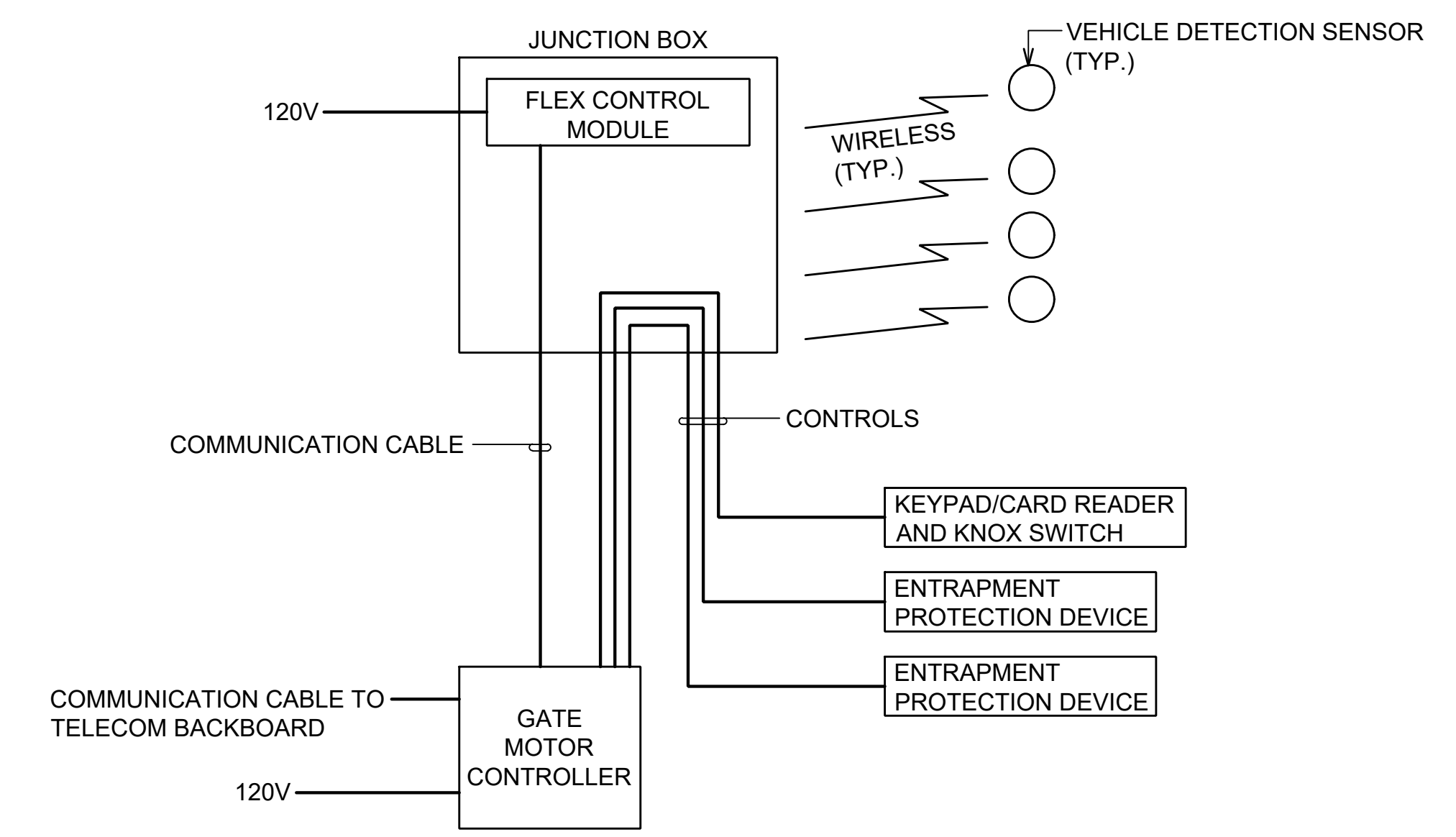
SCALE  
 JOB NO 2367009.02  
 DATE SEPTEMBER 2024  
 SHEET 17 OF 18  
**E-100**



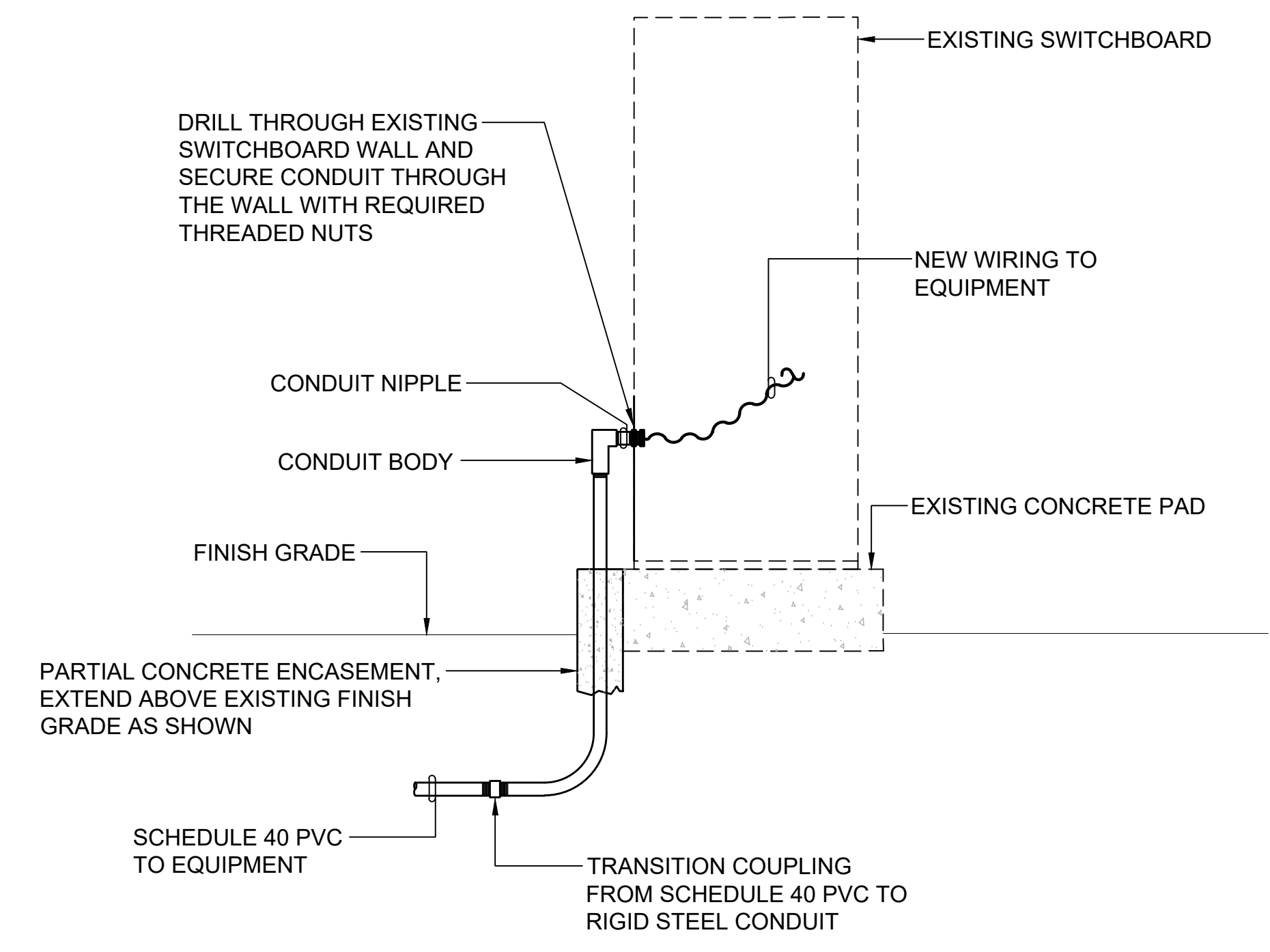


**ONE-LINE DIAGRAM**

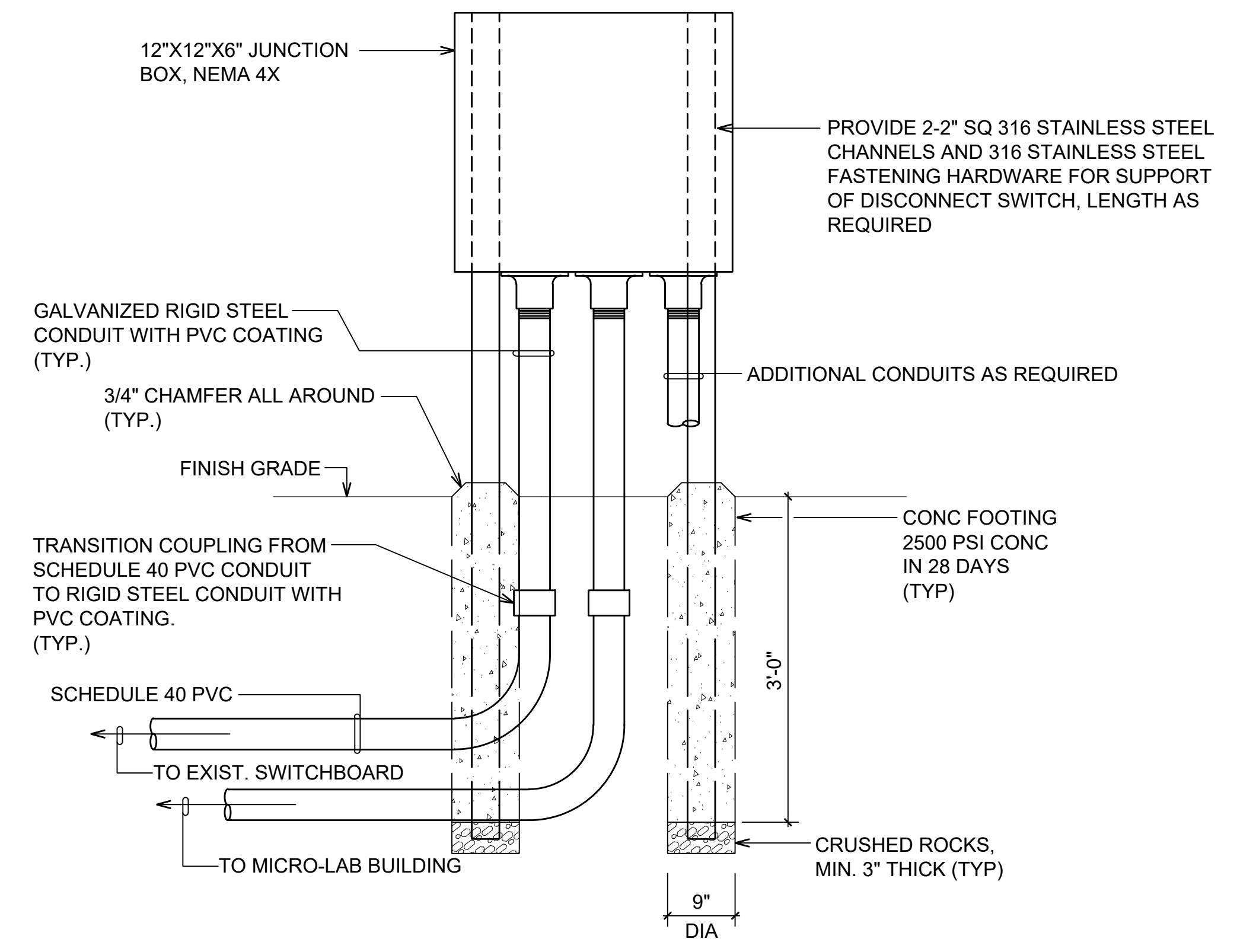
- NOTES:**
- GROUND AND BOND PER N.E.C.
  - DASHED LINES DENOTE EXISTING WORK. SOLID LINES DENOTE NEW WORK.



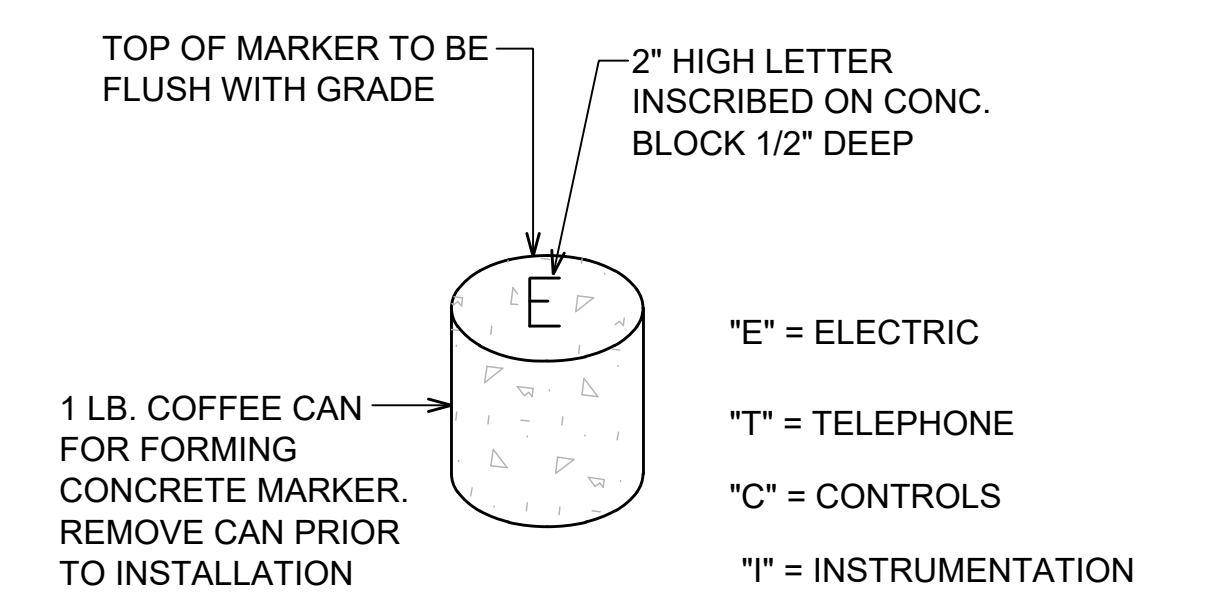
**GATE MOTOR CONTROLLER DIAGRAM  
(COORDINATE AND INSTALL PER EQUIPMENT MANUFACTURER INSTRUCTIONS)**



**1 CONDUIT TRANSITION DETAIL INTO EXISTING WEATHERPROOF ENCLOSURE  
E-200 NOT TO SCALE**

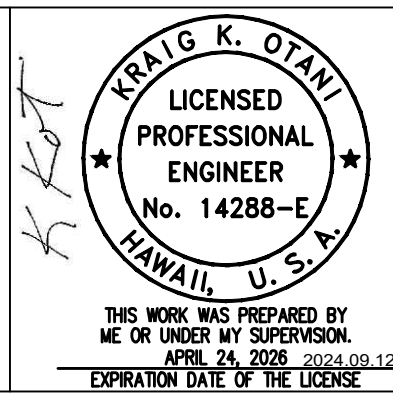


**2 JUNCTION BOX MOUNTING DETAIL  
E-200 NOT TO SCALE**



**3 CONCRETE MARKER FOR DUCT STUB OUT  
E-200 NOT TO SCALE**

100% SUBMITTAL	DESIGNED	VSG	COUNTY OF KAUA'I DEPARTMENT OF WATER	SCALE
	DRAWN	VSG		
	CHECKED	KKO	LĪHU'E ADMINISTRATIVE BUILDING FENCING	JOB NO 2367009.02
			Kennedy Jenks	DATE SEPTEMBER 2024
				SHEET 17 OF 18
				E-200



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

NO	REVISION	DATE	BY