

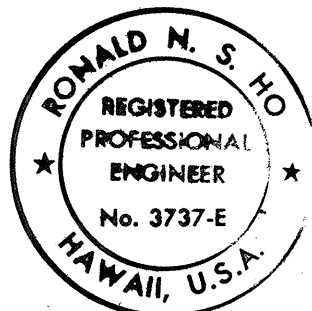
DATE: \_\_\_\_\_  
SURVEY PLOTTED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_  
NOTE BOOK: \_\_\_\_\_  
QUANTITIES BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
No. \_\_\_\_\_

ABBREVIATIONS					
A	A.I.C.	AMPERE INTERRUPTING CAPACITY	K	KVA	KILOVOLT — AMPERES
	AMP/A	AMPERES		KV	KILOVOLT
	AUX.	AUXILIARY		KW	KILOWATT
	AWG.	AMERICAN WIRE GAUGE	L		
	APPROX.	APPROXIMATE		LT.	LIGHT
	A/T	BREAKER AMPERE TRIP		LTG.	LIGHTING
	A/F	BREAKER AMPERE FRAME		LDCTR.	LOADCENTER
	AM	AMPLITUDE MODULATED			
B	BC.	BARE COPPER	M	MIN.	MINIMUM
	BKR.	BREAKER		MFR.	MANUFACTURER
	BLDG.	BUILDING		MTD.	MOUNTED
	BFF.	BELOW FINISHED FLOOR		MTG.	MOUNTING
		MCM		THOUSAND CIRCULAR MILS	
		MOV		METAL OXIDE VARISTOR	
C	C	CONDUIT	N	NF	NON—FUSIBLE
	CAB.	CABINET		N.I.C.	NOT IN CONTRACT
	CKT.	CIRCUIT		NO.	NUMBER
	CL	CENTERLINE		N.O.	NORMALLY OPEN
	COMM.	COMMUNICATION		N.C.	NORMALLY CLOSED
	CONTR.	CONTRACTOR		NL	NIGHT LIGHT
	CONC.	CONCRETE		NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
	CLF.	CURRENT LIMITING FUSE (S)			
	CEIL.	CEILING	O	OH.	OVERHEAD
	CMH	COMMUNICATIONS MANHOLE		O.C.	ON CENTER
CU.	COPPER				
CLR.	CLEAR OR CLEARANCE				
D	D.B.	DIRECT BURIED	P	PB.	PUSHBUTTON
	DISC.	DISCONNECT		PRIM.	PRIMARY
	DISTRIB.	DISTRIBUTION		PFB	PROVISION FOR FUTURE BREAKER
	DWG.	DRAWING		PL	PLATE
	D	DEEP OR DEPTH		PNL.	PANEL
	DIAG.	DIAGRAM		PVC.	POLYVINYLCHLORIDE
	DN.	DOWN		P	POLE
				∅	PHASE
E	EA.	EACH	R		
	ELEC.	ELECTRICAL		RECEP.	RECEPTACLE
	EMH.	ELECTRIC MANHOLE		REQ'D.	REQUIRED
	ENCL.	ENCLOSE OR ENCLOSURE		RM.	ROOM
	EQUIP.	EQUIPMENT		RECONN.	RECONNECT OR RECONNECTED
	EXST.	EXISTING		RFI	RADIO FREQUENCY INTERFERENCE
	EXT.	EXTERIOR		RLA	RATED LOAD AMPERES
	ELEV.	ELEVATION			
EES	EARTH ELECTRODE SYSTEM				
F	FA.	FIRE ALARM	S	SCHED.	SCHEDULE
	FIN.	FINISH		SHT.	SHEET
	FDR.	FEEDER		SPEC.	SPECIFICATION
	FLR.	FLOOR		SQ.	SQUARE
	FXTR.	FIXTURE		STD.	STANDARD
	FCBN	FULL CAPACITY BELOW NORMAL		STL.	STEEL
	FCAN	FULL CAPACITY ABOVE NORMAL		SW.	SWITCH
	FLUOR.	FLUORESCENT		SEC.	SECONDARY
FM	FREQUENCY MODULATED		S/S	STAINLESS STEEL	
G				SUBSTA.	SUBSTATION
	G/GND.	GROUND		SWBD.	SWITCHBOARD
	GR.	GRADE		SWGR.	SWITCHGEAR
	GRS.	GALVANIZED RIGID STEEL CONDUIT			
	GALV.	GALVANIZED	T	TRANSF.	TRANSFER
	GOV'T.	GOVERNMENT		TEL.	TELEPHONE
	GA.	GAUGE		TERM.	TERMINAL
	GFCI	GOVERNMENT FURNISHED AND CONTRACTOR INSTALLED		TYP.	TYPICAL
H	HH.	HANDHOLE	U	UG.	UNDERGROUND
	HT.	HEIGHT		UL	UNDERWRITER'S LABORATORIES
I			V	V	VOLTS
	INCAND.	INCANDESCENT	W	W	WIRE
	ID.	IDENTIFICATION		WP	WEATHERPROOF
	IG	INSTRUMENTATION GROUND			
J	JB	JUNCTION	X	XFMR.	TRANSFORMER
				XLP	CROSS—LINKED POLYETHYLENE

NOTES FOR CONSTRUCTION WITHIN STATE RIGHT-OF-WAY:

- CONTRACTOR SHALL OBTAIN A CONSTRUCTION PERMIT FROM STATE'S HIGHWAY DISTRICT ENGINEER AT 727 KAKOI STREET PRIOR TO COMMENCEMENT OF WORK WITHIN THE STATE RIGHT-OF-WAY.
- CONSTRUCTION & RESTORATION OF ALL EXISTING HIGHWAY FACILITIES WITHIN STATE RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE CURRENT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", & THE "SPECIFICATION FOR INSTALLATION OF MISCELLANEOUS IMPROVEMENTS WITHIN STATE HIGHWAYS", OF THE STATE HIGHWAYS DIVISION.
- ALL LANES SHALL BE OPEN TO TRAFFIC DURING MORNING PEAK HOURS FROM 6:00 AM TO 8:30 AM & DURING AFTERNOON PEAK HOURS FROM 3:00 PM TO 6:00 PM, & DURING OFF-WORK HOURS.
- CONTRACTOR SHALL PROVIDE, INSTALL & MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES, & OTHER PROTECTIVE FACILITIES & SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION & FOR THE CONVENIENCE & SAFETY OF PUBLIC TRAFFIC. ALL SUCH PROTECTIVE FACILITIES & PRECAUTIONS TO BE TAKEN SHALL CONFORM WITH THE "ADMINISTRATIVE RULES OF HAWAII GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON OR ADJACENT TO PUBLIC STREETS & HIGHWAYS" ADOPTED BY THE DIRECTOR OF TRANSPORTATION, & THE CURRENT U.S. FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS & HIGHWAYS, PART VI - TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION & MAINTENANCE OPERATIONS", DATED 1985. IF LANE CLOSURES ARE REQUIRED DURING CONSTRUCTION, A TRAFFIC CONTROL PLAN SHALL BE INCORPORATED INTO THE CONSTRUCTION PLANS AND MUST BE APPROVED BY THE DIVISION PRIOR TO THE ISSUANCE OF THE PERMIT.
- THE MINIMUM PAVEMENT STRUCTURE SHALL CONSIST OF:
  - COMMERCIAL DRIVEWAYS, SIDEROADS & UTILITY INSTALLATIONS ON MINOR HIGHWAYS
    - 2-1/2" ASPHALT CONCRETE, 8" AGGREGATE BASE COURSE & 12" AGGREGATE SUBBASE, OR 2-1/2" ASPHALT CONCRETE & 8" ASPHALT CONCRETE BASE COURSE OR ASPHALT CONCRETE.
    - 6" OF CLASS "A" CONCRETE REINFORCED WITH 6"x 6" - 6/6 WIRE MESH ON 12" AGGREGATE SUBBASE IF DEEMED NECESSARY BY ENGINEER.
  - CHANNELIZED INTERSECTIONS & UTILITY INSTALLATIONS ON MAJOR HIGHWAYS
    - 4" ASPHALT CONCRETE, 8" AGGREGATE BASE COURSE & 12" AGGREGATE SUBBASE, OR 4" ASPHALT CONCRETE & 8" ASPHALT CONCRETE BASE COURSE OR ASPHALT CONCRETE, OR MATCH EXISTING PAVEMENT STRUCTURE, WHICHEVER IS GREATER.
- NO MATERIAL AND/OR EQUIPMENT SHALL BE STOCKPILED OR OTHERWISE STORED WITHIN HIGHWAY RIGHT-OF-WAY EXCEPT AT LOCATIONS DESIGNATED IN WRITING & APPROVED BY THE DISTRICT ENGINEER.
- CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADEQUATE, SAFE, NON-SKID BRIDGING MATERIAL OVER TRENCHES, INCLUDING SHORING, WHEN TRENCHING IN PAVEMENT AREAS TO HANDLE ALL TYPES OF VEHICULAR TRAFFIC.
- LONGITUDINAL DRAINAGE ALONG THE HIGHWAY SHALL BE MAINTAINED.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61D-01-85	1988	5	29



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

*Ronald N. S.*  
12/20/87

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

ABBREVIATIONS, NOTES FOR  
CONSTR. WITHIN STATE RIGHT-OF-WAY

PALI HIGHWAY TUNNELS  
HIGHWAY LIGHTING IMPROVEMENTS  
PROJECT NO. 61D-01-85

SCALE: NONE DATE: APR., 1987

SHEET No. 2E OF 29 SHEETS