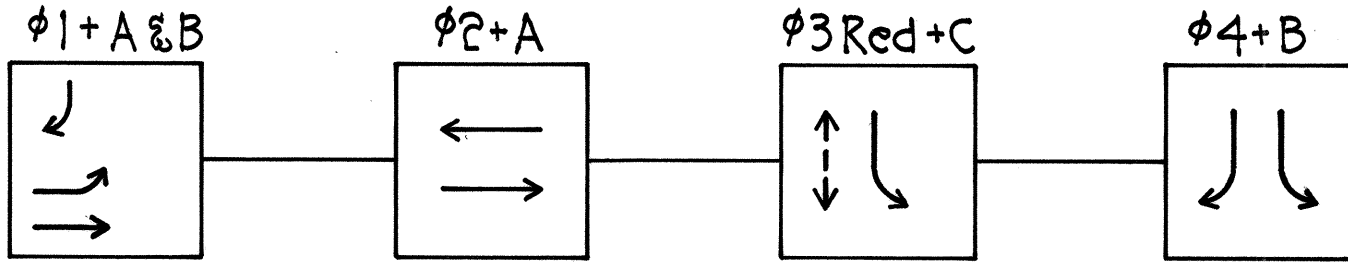


PULL BOX I.D. NO.	TYPE	LOGO
1, 4, 11	C (Exist.)	Traffic Signal/Hwy. Light
2, 3, 3A, 9, 10, 10A, 12	B (Exist.)	Traffic Signal
5	D (Exist.)	Traffic Signal/Hwy. Light
6, 7, 8	C (Exist.)	Traffic Signal
SLPB-1	B (Exist.)	Highway Light
13	B (New)	Traffic Signal

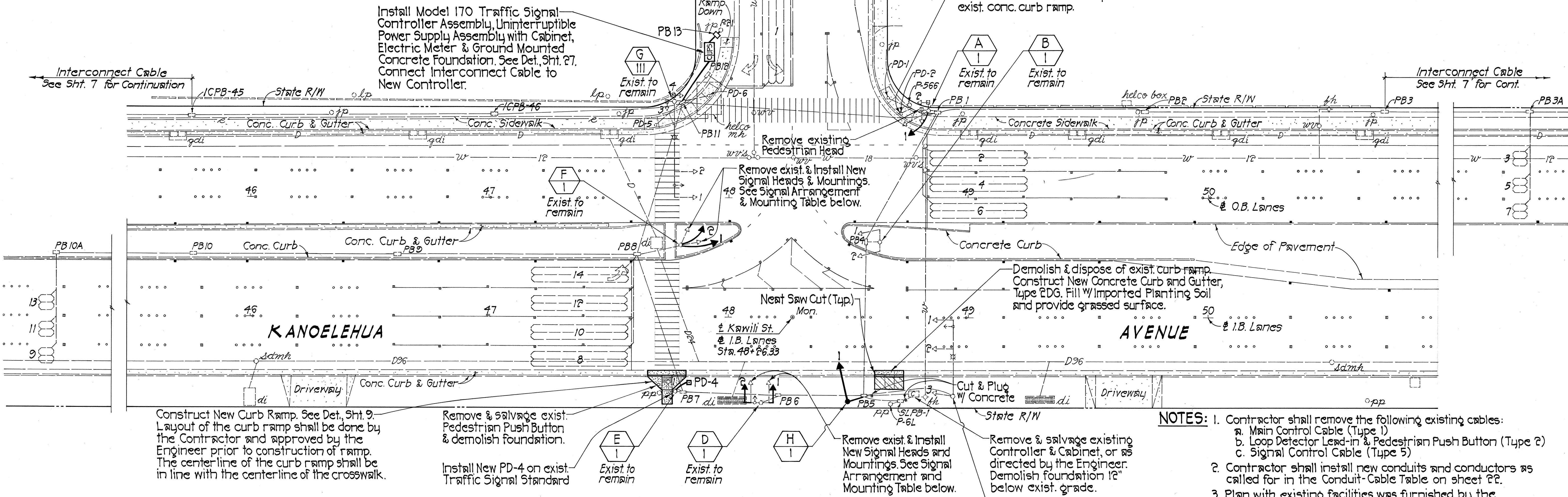
PULLBOX TABLE

TRUE NORTH
Scale: 1" = 20'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-011-2(32)	1999	21	34



PHASE DIAGRAM



- NOTES:
- Contractor shall remove the following existing cables:
a. Main Control Cable (Type 1)
b. Loop Detector Lead-in & Pedestrian Push Button (Type 2)
c. Signal Control Cable (Type 5)
 - Contractor shall install new conduits and conductors as called for in the Conduit-Cable Table on sheet 22.
 - Plan with existing facilities was furnished by the Department of Transportation F.A. Proj. No. NH-011-2(24) and F.A. Proj. No. NH-011-2(33).
 - Contractor shall deliver removed signal heads to County of Hawaii, Dept. of Public Works, Traffic Division Baseyard.
 - Contractor shall clean all existing conduits prior to pulling cables.

DATE	...
DESIGNED BY	...
CHECKED BY	...
NO.	...

(R)	(R)	(R)	(R)
(Y)	(Y)	(Y)	(Y)
(G)	(G)	(G)	(G)
G-2 VI	*B-2 II	A-11 (New)	D-2 II (New)
	C-1 VI	*B-111	F-2 II (New)
	C-2 VI	*D-111 (New)	
	C-3 V	H-11 (New)	
	F-1 II (New)		
	G-1 VI		

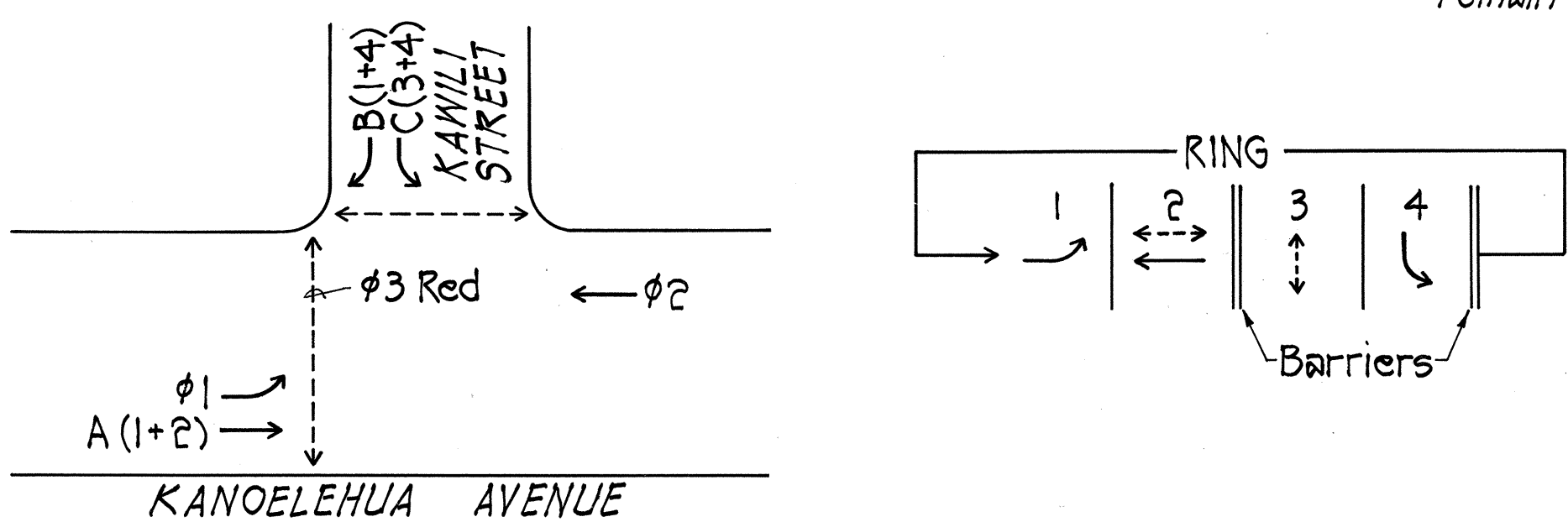
LEGEND

R = Red (Shall be LED Optical Units)
Y = Yellow } Shall be Incandescent
G = Green } Optical Units
← = Arrow

Pole I.D. A-2 VI
Signal Head
Type of Mount (See Sht. 29 for Details)

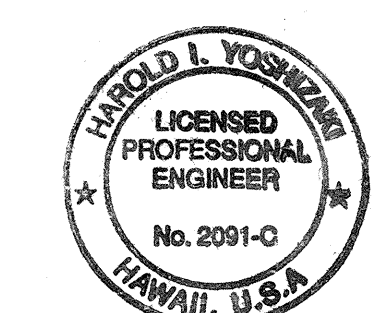
TRAFFIC SIGNAL & ELECTRICAL PLAN

Scale: 1" = 20'



SIGNAL ARRANGEMENT & MOUNTING

PHASE ASSIGNMENTS



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Harold L. Yoshizawa
1126 12th Avenue
Honolulu, Hawaii 96816

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC SIGNAL & ELECTRICAL
PLAN AT KAWILI STREET**

KANOELEHU AVE
TRAFFIC SIGNAL MODERNIZATION
F.A. PROJ. NO. STP-011-2(32)

SCALE: AS SHOWN DATE: OCT. 1998
SHEET NO. 1 OF 2 SHEETS

SURVEY PLOTTED _____ DATE _____
ORIGINAL PLAN _____
DRAWN BY _____
TRACED BY _____
CHECKED BY _____
NOTE BOOK _____
QUANTITIES BY _____
No. _____

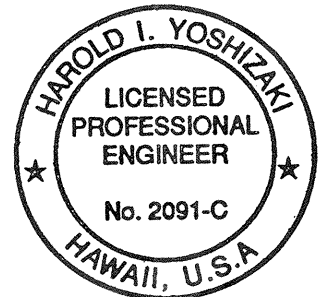
INSTALL NEW CONDUCTORS IN EXISTING CONDUITS																			REMARKS
FROM	TO	MAIN CONTROL		SIGNAL CONTROL			DETECTORS			POWER		STREET LIGHTS		OPTICOM		INTERCONNECT		SPARE	
		CONDUIT	CONDUCTORS 1-26C - #14	CONDUIT	CONDUCTORS		CONDUIT	CONDUCTORS	CONDUIT	CONDUCTORS	CONDUIT	CONDUCTORS	CONDUIT	CONDUCTORS	CONDUIT	CONDUCTORS			
					SEE NOTE 1	SEE NOTE 2											2C - #16 PED. VEH.		
PB1	PD-1						EX. 2"	1											
PB1	A			EX. 2"	1	7													
PB1	PB2						EX. 2"	1							EX. 2"	1	2-EX. 2"		
PB2	PB3						EX. 2"	1							EX. 2"	1	2-EX. 2"		
PB3	PB3A						EX. 2"	1											
PB3A	ICPB50														EX. 2"	1	2-EX. 2"		
PB1	PB4	2-EX. 2"	1								EX. 2"		EX. 2"	2			4-EX. 2"		
PB4	B			EX. 2"	1	7	EX. 2"	1											
PB1	PB11	2-EX. 2"	1				2-EX. 2"	1	4		EX. 2"		EX. 2"	2	EX. 2"	1	3-EX. 2"		
PB11	PD-5						EX. 2"	1											
PB11	PD-6						EX. 2"	1											
PB11	G			EX. 2"	1	13					EX. 2"		EX. 2"	1					
PB11	PB12						EX. 2"	1											
PB11	ICPB49														EX. 2"	1	2-EX. 2"		
ICPB49	ICPB48														EX. 2"	1	2-EX. 2"		
PB11	PB8	2-EX. 2"	1				2-EX. 2"	1	5								EX. 2"		
PB8	F			EX. 2"	1	7	EX. 2"	1											
PB8	PB9						EX. 2"	1											
PB9	PB10						EX. 2"	1											
PB10	PB10A						EX. 2"	1											
PB8	PB7	2-EX. 2"	1				EX. 2"	1											
PB7	E			EX. 2"	1	4													
PB7	PD-4						EX. 2"	1											
PB7	PB6	2-EX. 2"	1														2-EX. 2"		
PB6	D			EX. 2"	1	7						EX. 2"	1						
PB5	PB6	2-EX. 2"	1									EX. 2"	2				3-EX. 2"		
PB4	PB5	2-EX. 2"	1								EX. 2"		EX. 2"	2			EX. 2"		
PB5	C			EX. 2"	1	16					EX. 2"		EX. 2"	1					
PB5	SLPB1										EX. 2"								

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-011-2(32)	1999	22	34

EXISTING CONDUITS AND CONDUCTORS TO REMAIN			
FROM	TO	STREET LIGHTS	
		CONDUIT	CONDUCTORS 2 - #10
PB1	PB4	EX. 2"	1
PB1	PB11	EX. 2"	1
PB11	G	EX. 2"	1
PB4	PB5	EX. 2"	1
PB5	C	EX. 2"	1
PB5	SLPB1	EX. 2"	1
SLPB1	P-6L	EX. 2"	1

INSTALL NEW CONDUITS AND CONDUCTORS																				
FROM	TO	MAIN CONTROL		SIGNAL CONTROL			DETECTORS			POWER		OPTICOM		INTERCONNECT		SPARE	REMARKS			
		CONDUIT	CONDUCTORS	CONDUIT	CONDUCTORS		CONDUIT	CONDUCTORS		CONDUIT	CONDUCTORS	CONDUIT	CONDUCTORS		CONDUIT					
			1-26C - #14		2"	SEE NOTE 1		SEE NOTE 2	2"				2C - #16	2"		2"		3C - #20	1 - 12pr #19	2"
													PED.	VEH.						
P-21	MAIN									●	BY HELCO						Riser, weather head and conduit per HELCO requirements.			
MAIN	UPS									●	2- #4 1- #4 GRND.									
UPS	CONT.									●	2- #4 1- #4 GRND.									
CONT.	PB11	4 ●	1				4 ●	2	10			●	3	●	2	3 ●				
PB5	H			●	1	4														

- LEGEND: ● New Conduit
4● Number of New Conduits
2-EX. 2" Number of existing 2" conduits
EX. 2" Existing 2" conduit
PB7 Existing improvements (Existing Pullbox 7) are indicated with slant lettering.
- NOTES: 1. Install 1-9 Cond. #14 or 1-26 Cond. #14 cable from pullbox to bottom of traffic signal standard, as required.
2. Install #14 conductors (color coded) as indicated on table from bottom of traffic signal standard to traffic and pedestrian signal heads.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Harold I. Yoshizaki
SHIMABUKURO, ENDO & YOSHIZAKI, INC.
1126 12th Avenue
Honolulu, Hawaii 96816

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**CONDUIT-CABLE TABLE
AT KAWILI STREET**
KANOELEHUA AVENUE
TRAFFIC SIGNAL MODERNIZATION
F.A. PROJ. NO. STP-011-2(32)
SCALE: AS SHOWN DATE: OCT. 1998
SHEET No. 2 OF 2 SHEETS