

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19B-01-97	1998	8	13

TRAFFIC SIGNAL ARRANGEMENT		
Traffic Signal Head Type	(R) (Y) (G)	(R) (Y) (G) (A)
	12" RYG Traffic Signal Head	12" RYG & Traffic Signal Head
Pole Letter, Signal Head Number	A-1 A-2 C-2 C-3 D-1 E-1 E-2 G-2 G-3 H-1	B-1 C-1 F-1 G-1

LEGEND:

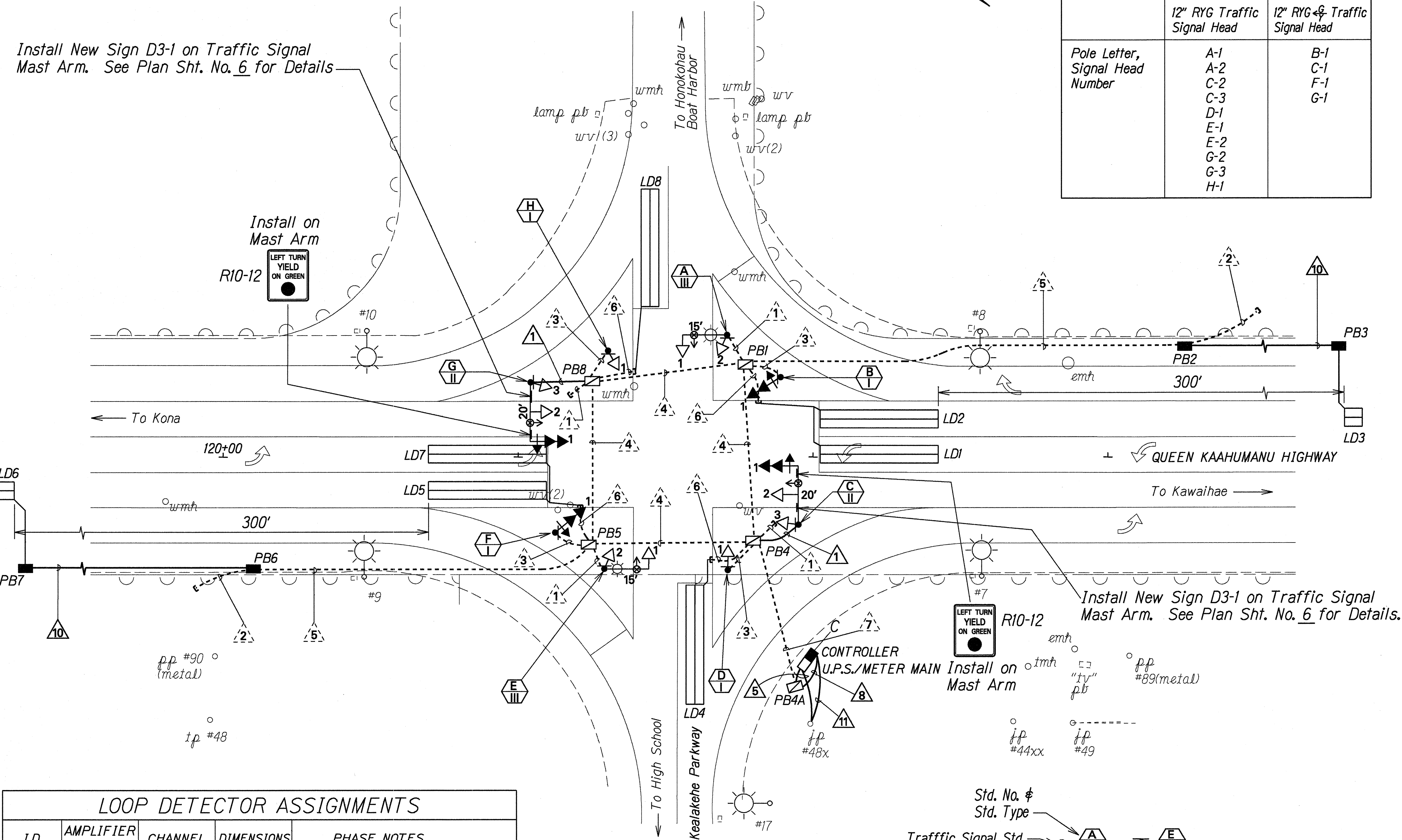
1 - EXISTING CONDUIT

1 - NEW CONDUIT

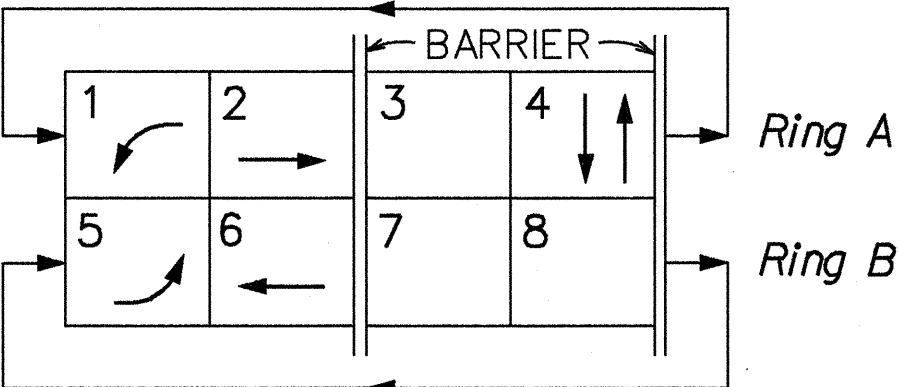
A - STANDARD NUMBER
III - STANDARD TYPE

NOTE(S):

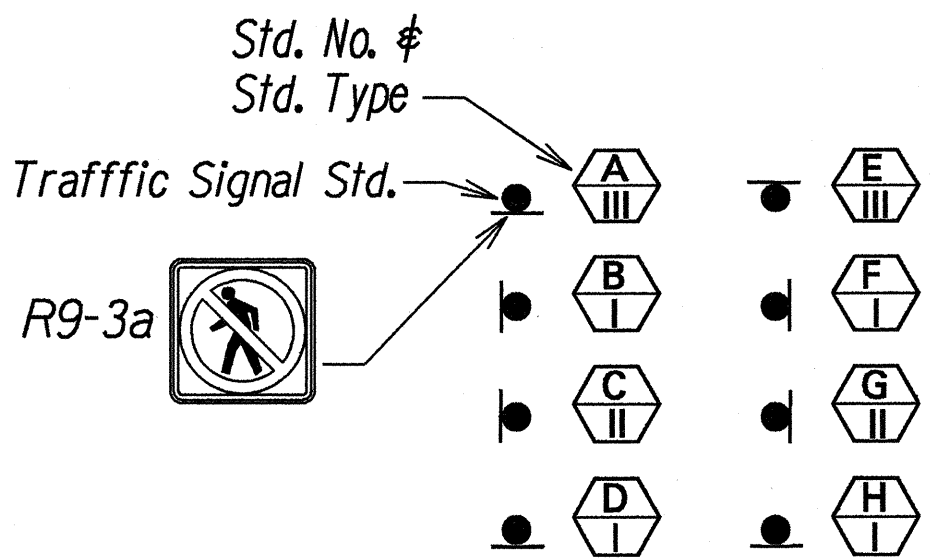
- 1 - 1 1/2" C, 2 - 1" C
STUB OUT 3'-0"
SEE DUCT SECTION "X"
- 2" C
STUB OUT 1'-0" BEYOND SHOULDER
SEE DUCT SECTION "X"
- 1 - 1 1/2" C, 1 - 1" C
STUB OUT 3'-0"
SEE DUCT SECTION "X"
- 2 - 2" C, 1 - 1 1/2" C, 2 - 1" C
SEE DUCT SECTION "Y"
- 1 - 2" C
SEE DUCT SECTION "X"
- 2" C
STUB OUT 6" INTO TRAVELED WAY
SEE DUCT SECTION "X"
- 2 - 2" C, 1 - 1 1/2" C, 2 - 1" C
STUB OUT 1'-0" BEYOND SHOULDER
SEE DUCT SECTION "X"
- 8 - 2" C
SEE DUCT SECTION "8-C"
- 3 - 2" C
SEE DUCT SECTION "3-C"
- 1 - 2" C
SEE DUCT SECTION "1-C"
- 1 - 1" C
SEE DUCT SECTION "1-C"



LOOP DETECTOR ASSIGNMENTS				
I.D.	AMPLIFIER UNIT	CHANNEL	DIMENSIONS	PHASE NOTES
LD-1	A	1	6' X 40'	ø1 or ø6 (Internally switched)
LD-2	B	1	6' X 40'	ø6 and ø2 (Handwired together)
LD-3	C	1	6' X 6'	ø6 Extension
LD-4	B	3	6' X 40'	ø4
LD-5	B	2	6' X 40'	ø2 and ø6 (Handwired together)
LD-6	C	2	6' X 6'	ø2 Extension
LD-7	A	2	6' X 40'	ø5 or ø2 (Internally switched)
LD-8	B	4	6' X 40'	ø4



PHASE DIAGRAM



INSTALLATION OF SIGN (R9-3a)
ON TRAFFIC SIGNAL STANDARD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL PLAN
QUEEN KAAHUMANU HIGHWAY
Installation of Traffic Signals at
Kealahake Parkway
Project No. 19B-01-97

Scale: 1"=20'
Date: June, 1997

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HAWAII	HAW.	19B-01-97	1998	9	13

CONDUIT - CABLE TABLE																	
FROM	TO	MAIN CONTROL		SIGNAL FEEDER*		LOOP DETECTORS		POWER		TELEPHONE		OPTICOM		STREET LIGHTS		SPARE	REMARKS
		Conduit 2"	Cable (Type 1) #14, 26 # 9	Conduit 1½"	Cable Color coded Single Cond.	Conduit 2"	Cable (Type 2) 2 #14	Conduit 2"	Cable (Type 6) 3 #6	Conduit 1"	Cable	Conduit	Cable (Type 7) 4-#20	Conduits 1"	Cable 2-#8 w/1-#10 Grnd.	Conduit 2"	
PB-1	PB-2					Exist.	1										
PB-2	PB-3					1	1										
PB-1	POLE A			Exist.	8							Exist.	1	Exist.	1		
PB-1	POLE B			Exist.	6												
PB-1	PB-4	Exist.	1			Exist.	3					Exist.	1	Exist.	1		
PB-4	POLE C			1	14								1				
PB-4	POLE D			Exist.	4												
PB-4	PB-4A	Exist.	1			Exist.	8					Exist.	4	Exist.	1		
PB-4A	CONT.	1	1			1	8					1-2"	4			3	
CONT.	UPS							1	1								For Controller Power
UPS	MAIN							1	1								For UPS Power
MAIN	JP 48X							1	BY HELCO								
PB-4	PB-5	Exist.	1			Exist.	4					Exist.	2	Exist.	1		
PB-5	POLE E			Exist.	8							Exist.	1	Exist.	1		
PB-5	POLE F			Exist.	6												
PB-5	PB-6					Exist.	1										
PB-6	PB-7					1	1										
PB-5	PB-8	Exist.	1			Exist.	1					Exist.	1	Exist.	1		
PB-8	POLE G			1	14							1-2"	1				
PB-8	POLE H			Exist.	4												
PB-8	PB-1	Exist.	1			Exist.								Exist.			
MAIN	PB-4A													1	1		
JP 48X	CONT.									1							

PULLBOX TABLE		
PULLBOX I.D. NO.	TYPE	DESCRIPTION (LOGO)
PB-1	D	TRAFFIC SIGNAL
PB-2	B	TRAFFIC SIGNAL (MODIFIED COVER)
PB-3	B	TRAFFIC SIGNAL (MODIFIED COVER)
PB-4	D	TRAFFIC SIGNAL # HWY LIGHT
PB-4A	D	TRAFFIC SIGNAL # HWY LIGHT
PB-5	D	TRAFFIC SIGNAL # HWY LIGHT
PB-6	B	TRAFFIC SIGNAL (MODIFIED COVER)
PB-7	B	TRAFFIC SIGNAL (MODIFIED COVER)
PB-8	D	TRAFFIC SIGNAL # HWY LIGHT

PULLBOX SIZE:

B - See Plan Sheet No. 12

D - See Plan Sheet No. 12

*Note: The Single Feeder, Single Conductor, Color Coded Cable between the Traffic Signal Assemblies to the bottom of the pole and the 9c from the pole handhole to the pullbox shall not be paid for separately but shall be considered incidental to the Traffic Signal Assemblies and the Contractor shall Air Transport Cable with Assemblies. This Single Feeder, Single Conductor, Color Coded Cable and 9c Cable shall meet current County of Hawaii Traffic Signal Standards.

ORIGINAL PLAN	DATE	4/16/97
DESIGNED BY	DATE	
CHECKED BY	DATE	
NOTED BY	DATE	
QUANTITIES BY	DATE	
TRACED BY	DATE	
DRAWN BY	DATE	
SURVEY LOCATED BY	DATE	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TRAFFIC SIGNAL PLAN
QUEEN KAAHUMANU HIGHWAY
Installation of Traffic Signals at
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Project No. 19B-01-97
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