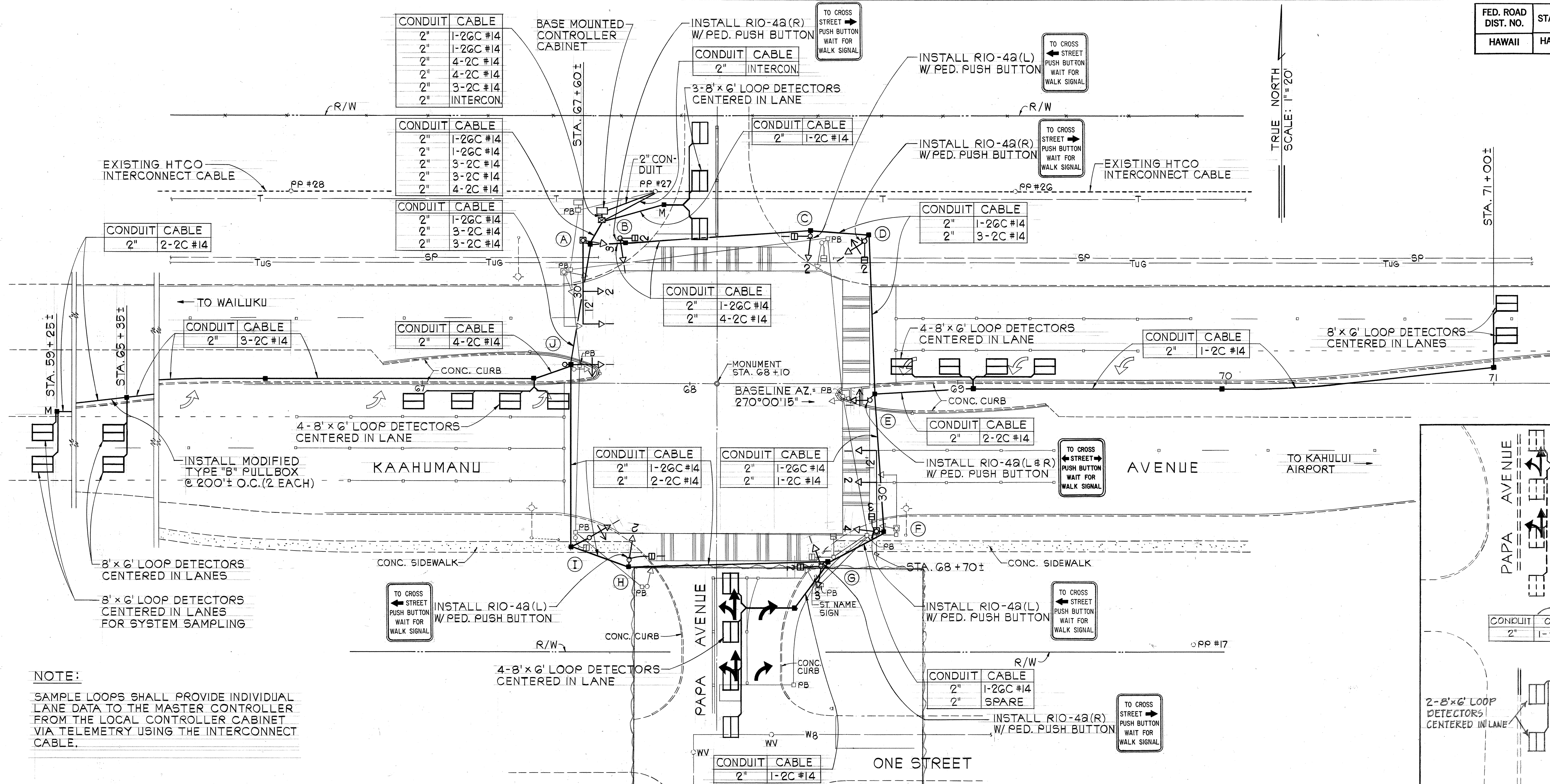
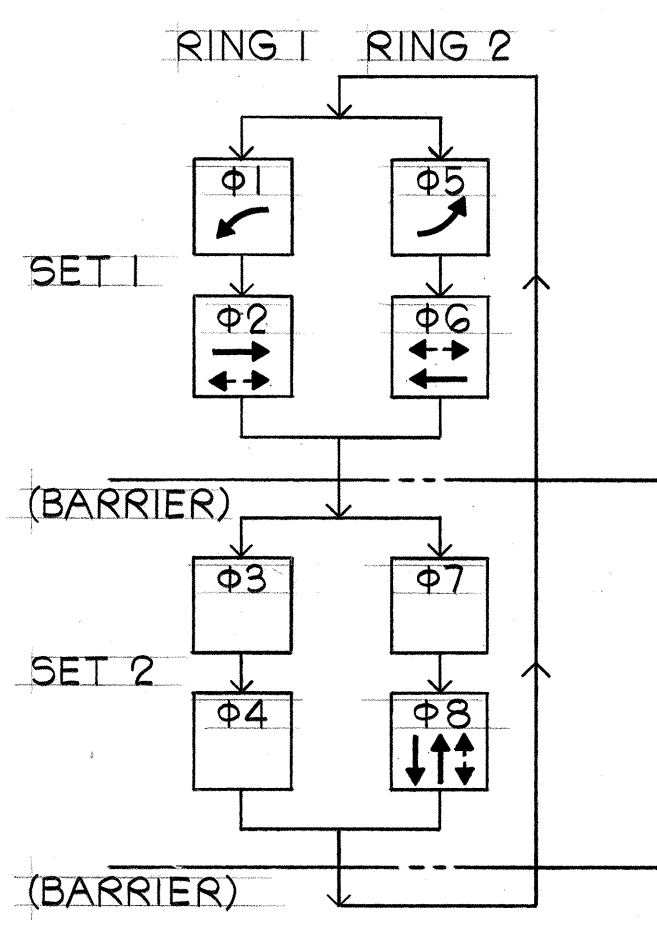


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FAU MG-0900(16)	1982	9	32

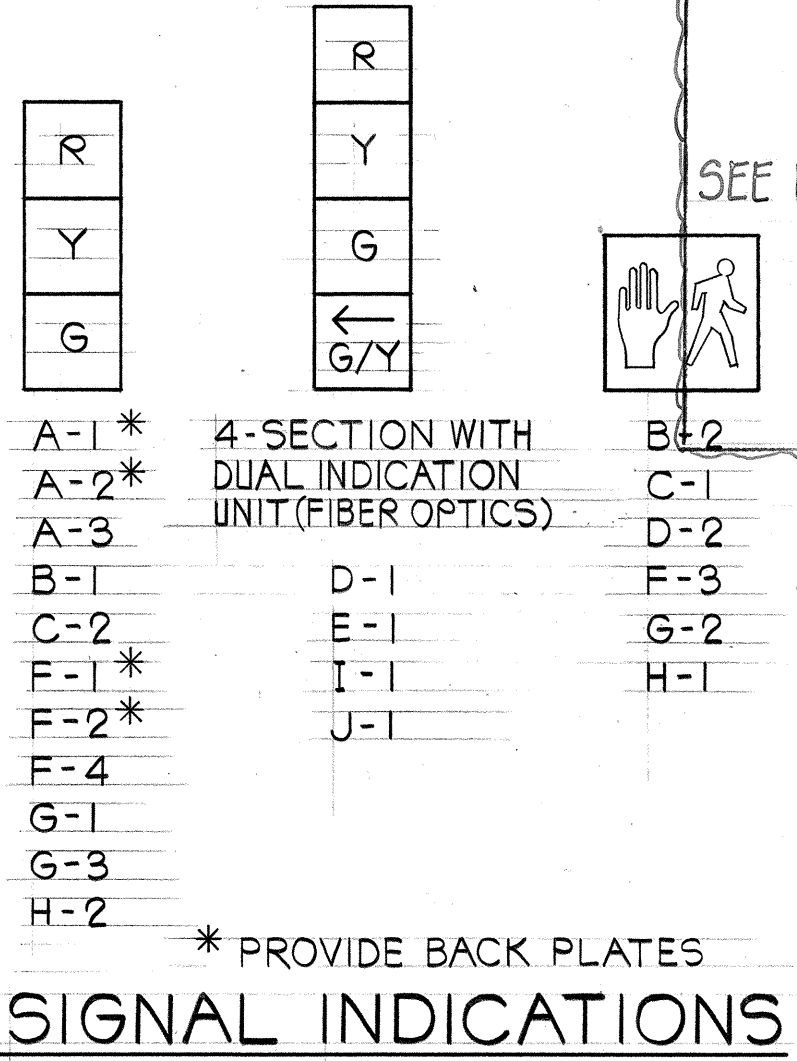


NOTE:
SAMPLE LOOPS SHALL PROVIDE INDIVIDUAL LANE DATA TO THE MASTER CONTROLLER FROM THE LOCAL CONTROLLER CABINET VIA TELEMETRY USING THE INTERCONNECT CABLE.

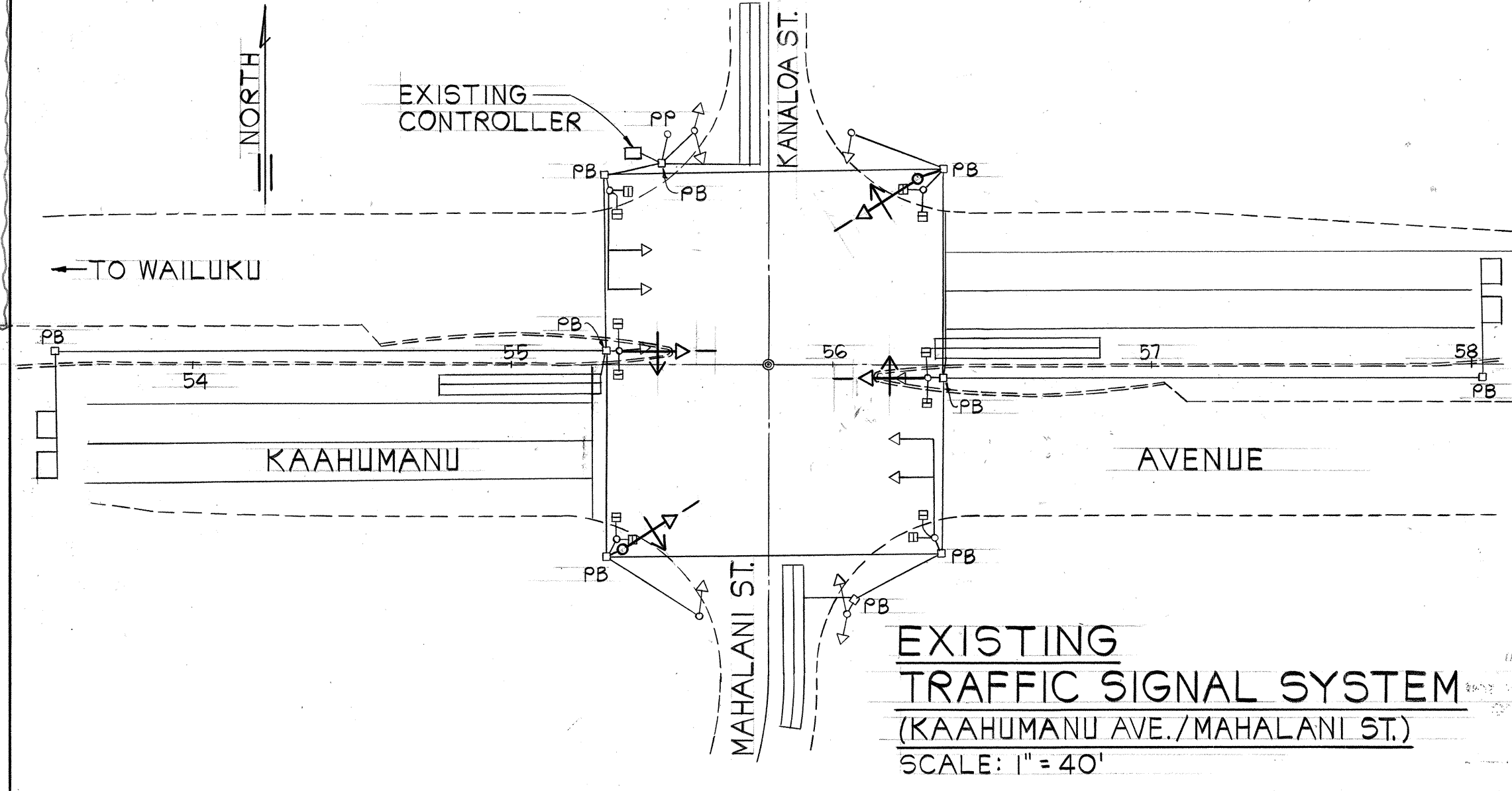


NOTE: PROVIDE A LEAD LEFT TURN GREEN WHEN PRESENCE LOOPS ARE OCCUPIED.

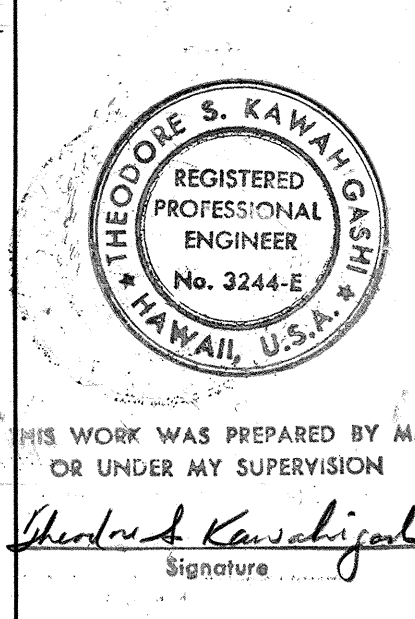
PHASE DIAGRAM



SIGNAL INDICATIONS



- NOTES:**
- REPLACE EXISTING 5-SECTION VERTICAL TRAFFIC SIGNAL HEADS IN MEDIAN WITH NEW 4-SECTION VERTICAL WITH DUAL INDICATION UNIT (FIBER OPTICS) TRAFFIC SIGNAL HEADS.
 - ADD 2-NEW TYPE I TRAFFIC SIGNAL STANDARDS WITH NEW 4-SECTION VERTICAL WITH DUAL INDICATION UNIT (FIBER OPTICS) TRAFFIC SIGNAL HEADS.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

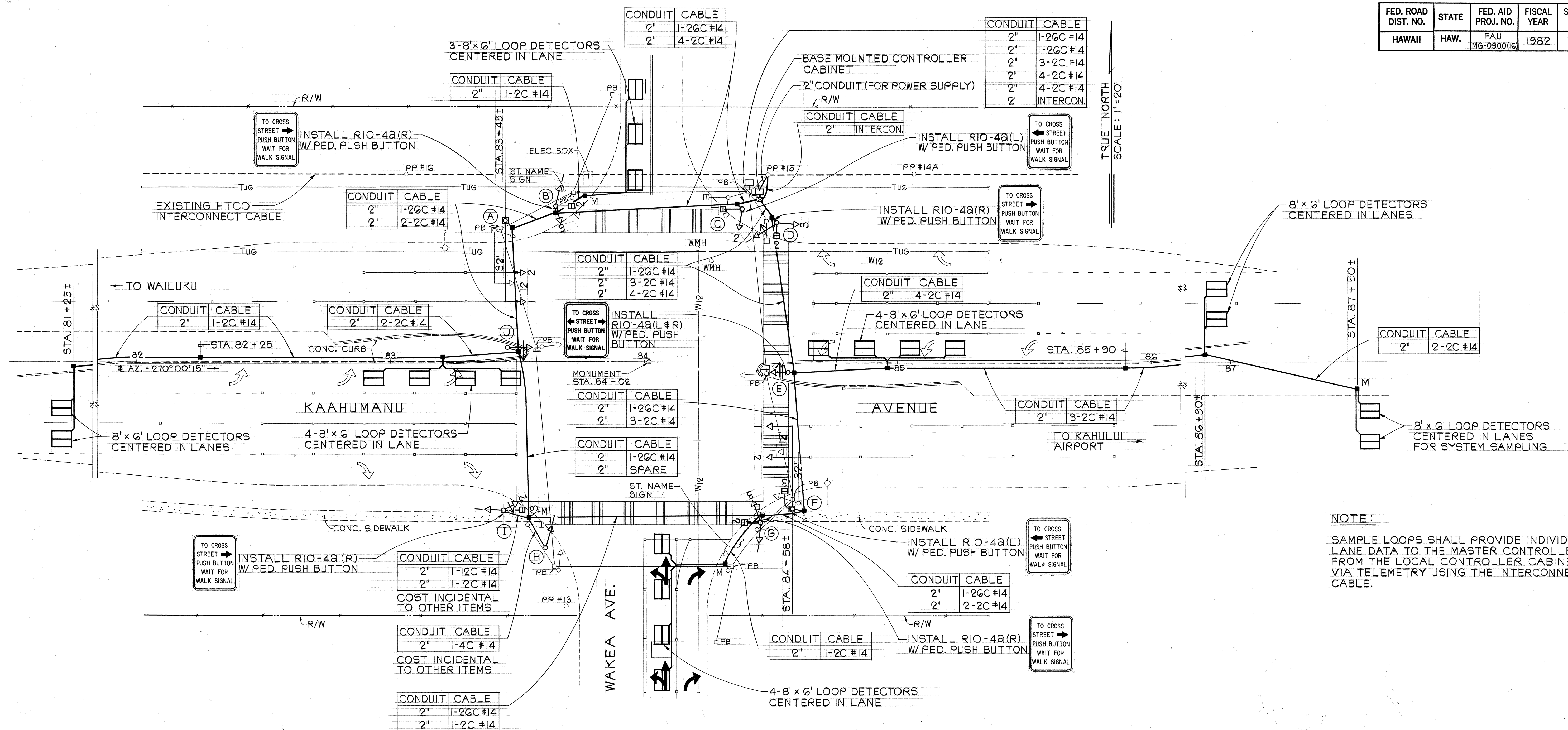
TRAFFIC SIGNAL PLAN
(PAPA AVENUE)

KAAHUMANU AVENUE
TRAFFIC SIGNAL
IMPROVEMENTS
FAU PROJECT NO. MG-0900(16)

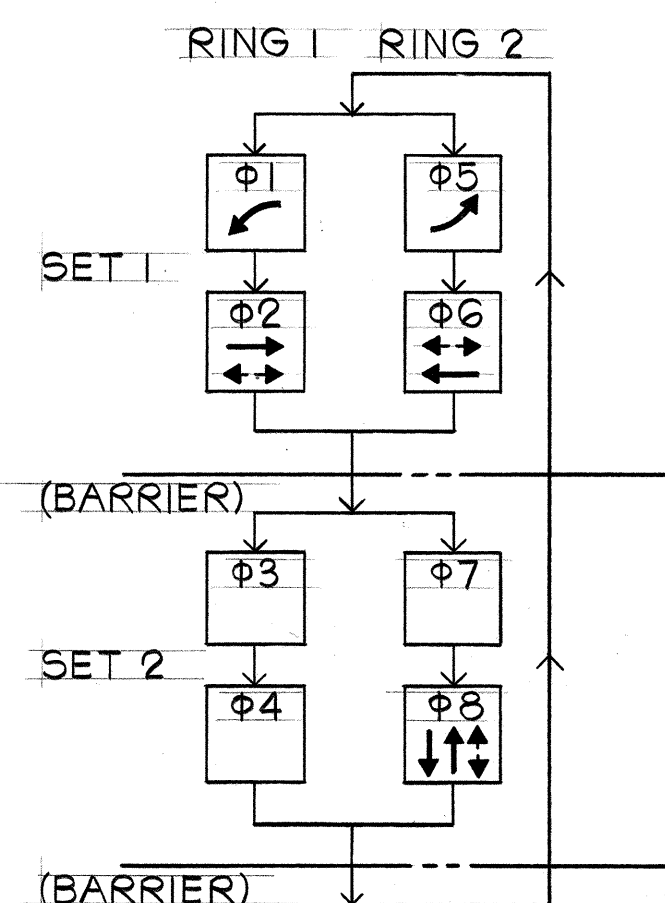
SCALE: AS SHOWN
DATE: 4-27-82

SHEET NO. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FAU MG-0900(16)	1982	10	32

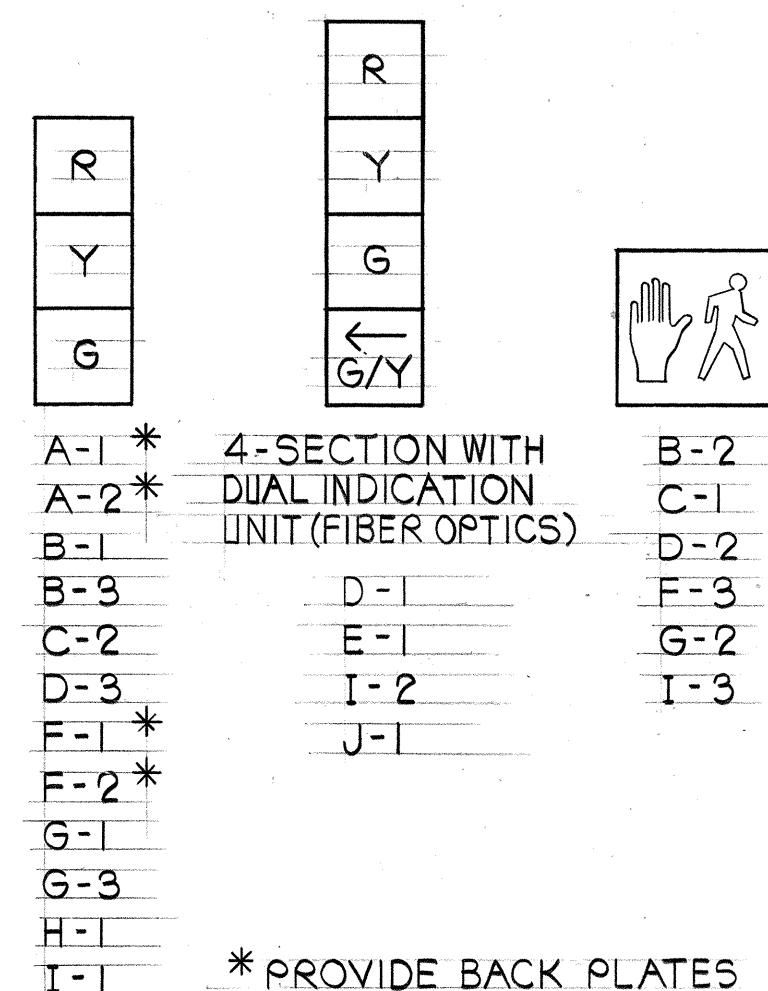


NOTE:
SAMPLE LOOPS SHALL PROVIDE INDIVIDUAL LANE DATA TO THE MASTER CONTROLLER FROM THE LOCAL CONTROLLER CABINET VIA TELEMETRY USING THE INTERCONNECT CABLE.

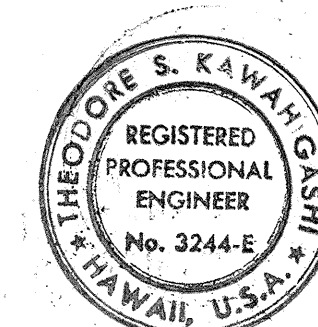


NOTE: PROVIDE A LEAD LEFT TURN GREEN WHEN PRESENCE LOOPS ARE OCCUPIED.

PHASE DIAGRAM



SIGNAL INDICATIONS



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: *Sheldon S. Kawahara*

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

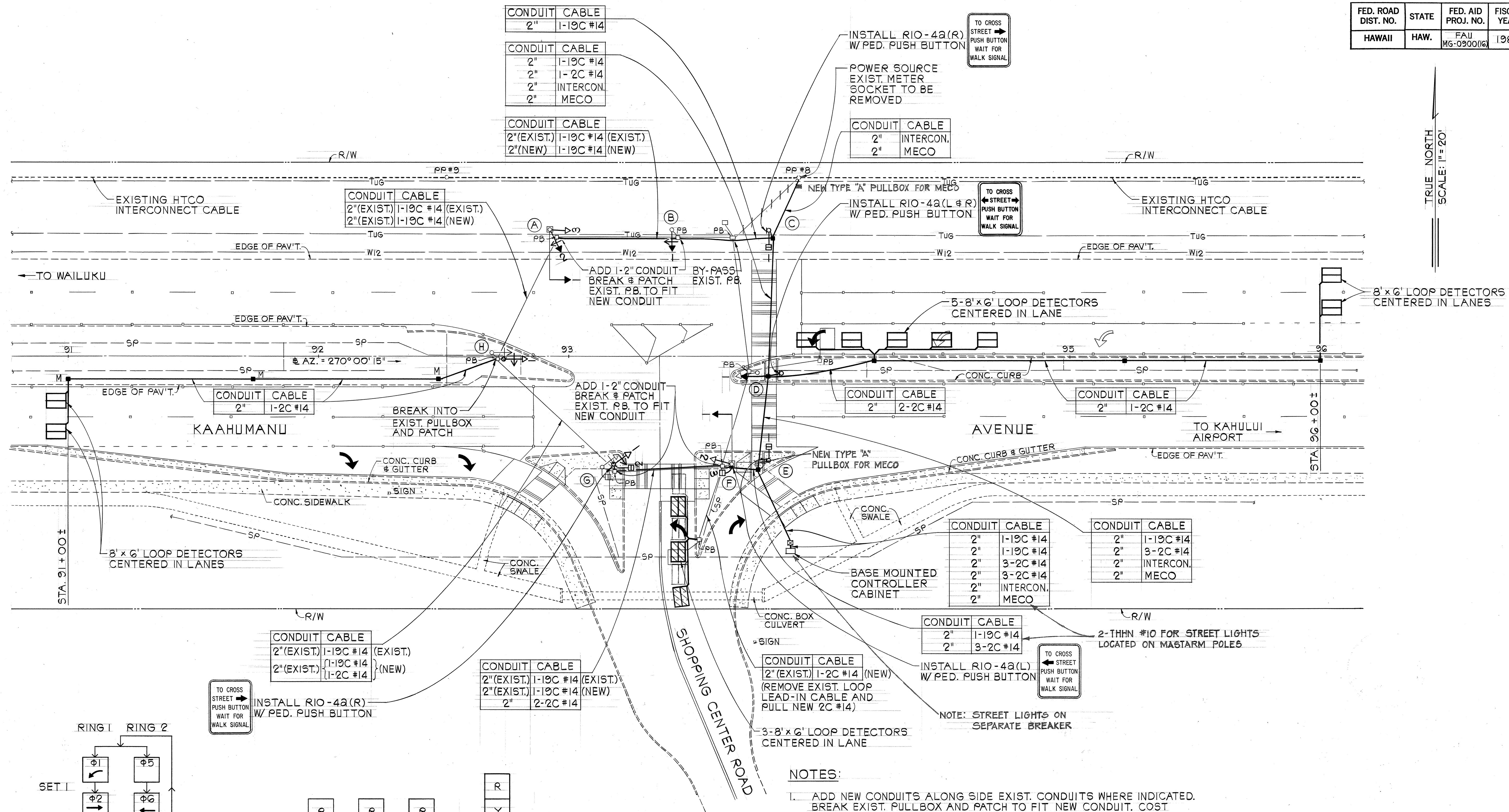
TRAFFIC SIGNAL PLAN
(WAKEA AVENUE)
KAAHUMANU AVENUE
TRAFFIC SIGNAL
IMPROVEMENTS
FAU PROJECT NO. MG-0900(16)

SCALE: AS SHOWN
DATE: 4-27-82
SHEET No. 2 OF 6 SHEETS

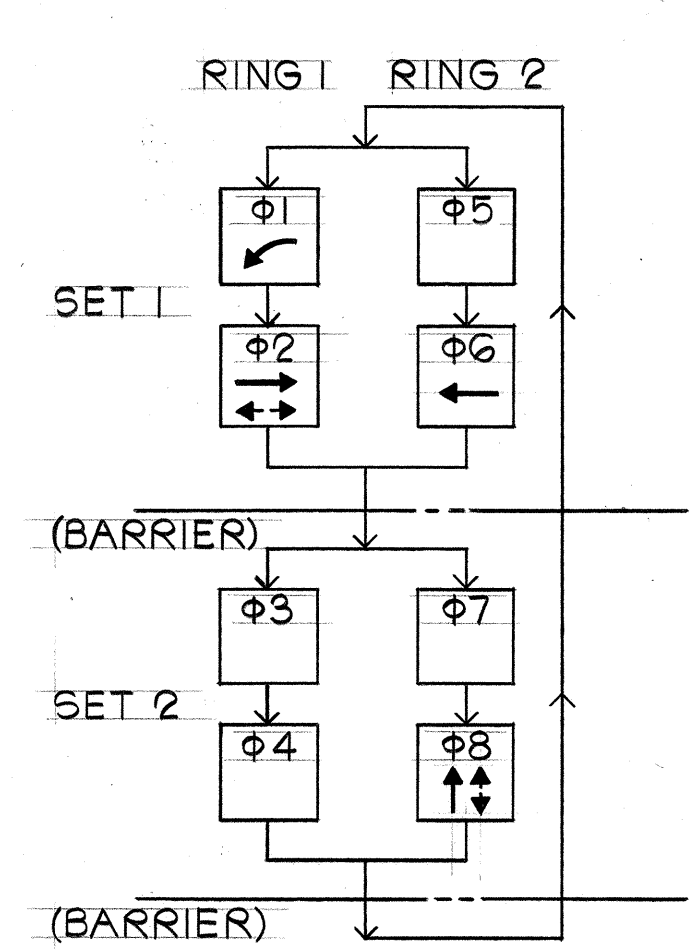
DATE	
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FAU MG-0900(16)	1982	11	32

TRUE NORTH
SCALE: 1" = 20'

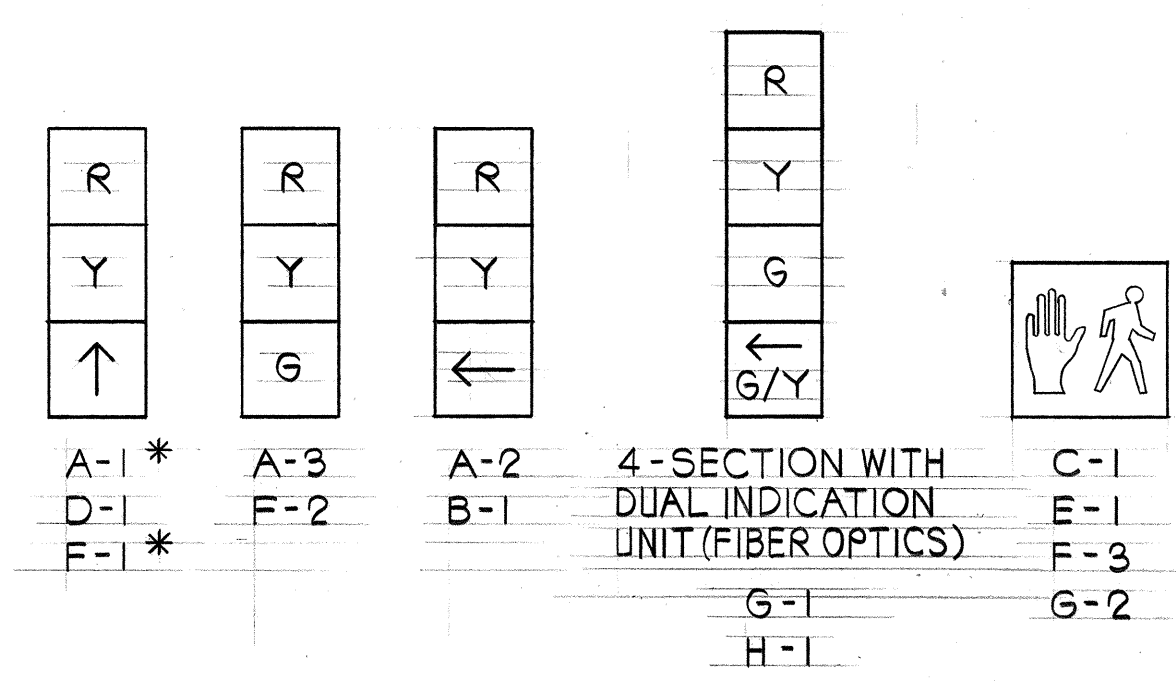


DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NOTED BY	_____
QUANTITIES BY	_____
ORIGINAL PLAN	_____



NOTE: PROVIDE A LEAD LEFT TURN GREEN WHEN PRESENCE LOOPS ARE OCCUPIED.

PHASE DIAGRAM

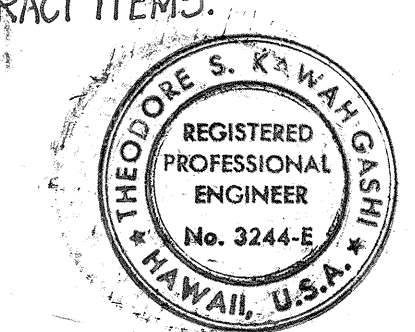


* PROVIDE BACK PLATES

SIGNAL INDICATIONS

NOTES:

1. ADD NEW CONDUITS ALONG SIDE EXIST. CONDUITS WHERE INDICATED. BREAK EXIST. PULLBOX AND PATCH TO FIT NEW CONDUIT. COST INCIDENTAL TO CONDUITS.
2. PULL NEW 19C #14 CONTROL CABLE WITH #8 COPPER WIRE FOR GROUND.
3. EXISTING TRAFFIC SIGNAL STANDARDS (A), (B) AND (C) ARE TO REMAIN. ALL EXISTING TRAFFIC SIGNAL HEADS AT THESE LOCATIONS SHALL BE REPLACED WITH NEW 12" HEADS. WITH SIGNAL INDICATIONS AS NOTED ON THE PLANS. EXISTING STREET LIGHTS ON TRAFFIC SIGNAL STD. SHALL REMAIN IN OPERATION. COST SHALL BE INCIDENTAL TO OTHER CONTRACT ITEMS.
4. NEW PED-CALL PUSH BUTTON AND SIGN SHALL BE INSTALLED ON EXISTING TRAFFIC SIGNAL STANDARD (B).
5. EXISTING CONDUITS TO BE USED FOR THE NEW SYSTEM SHALL BE CLEANED WITH A MANDREL OR CYLINDRICAL WIRE BRUSH AND BLOWN OUT WITH COMPRESSED AIR.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Theodore S. Kawahigashi
Signature

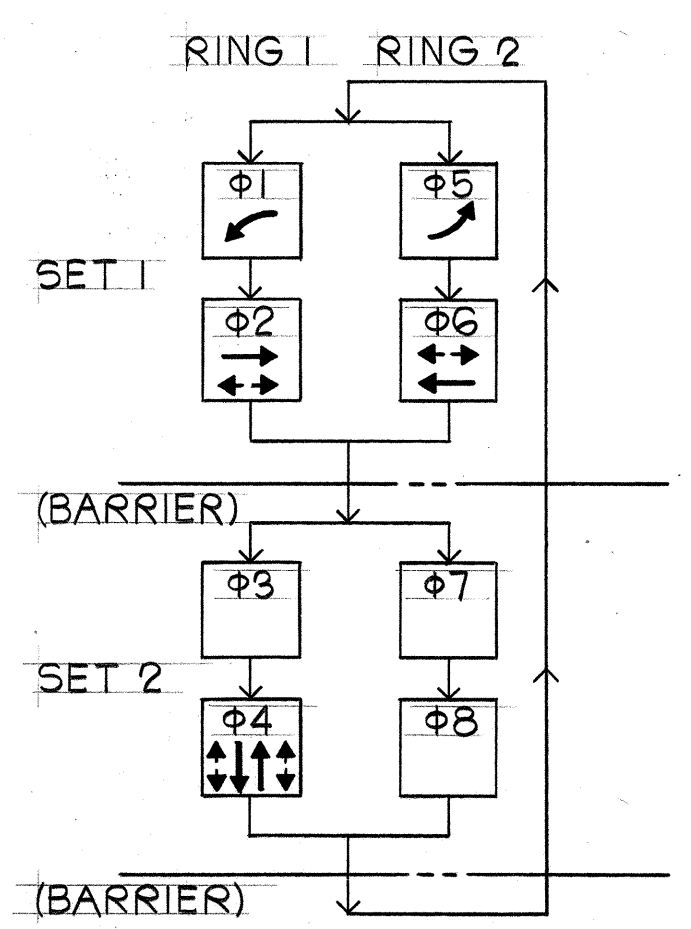
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL PLAN
(SHOPPING CENTER ROAD)

KAAHUMANU AVENUE
TRAFFIC SIGNAL
IMPROVEMENTS
FAU PROJECT NO. MG-0900(16)

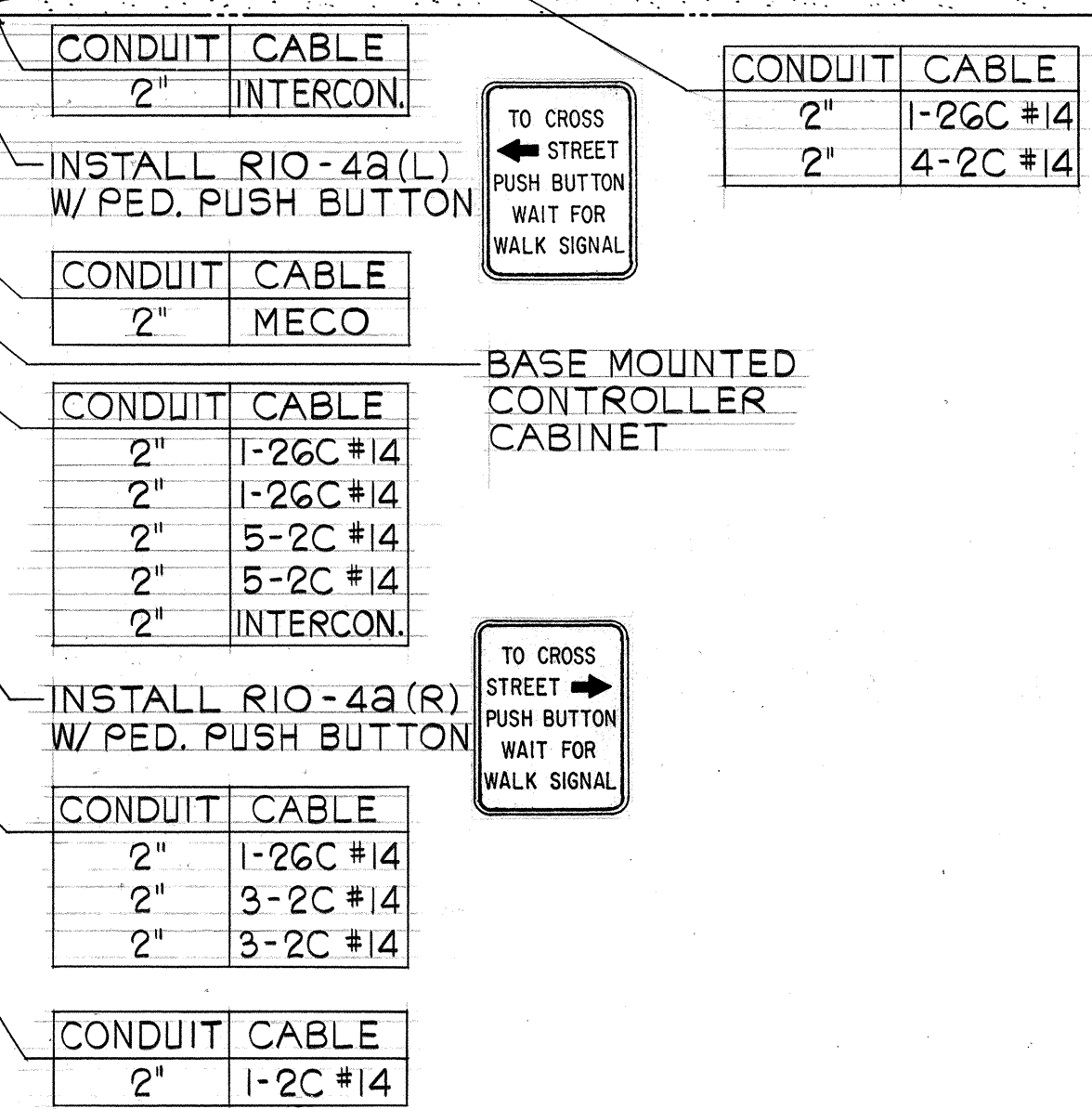
SCALE: AS SHOWN DATE: 4-27-82
SHEET NO. 3 OF 6 SHEETS

TRUE NORTH
SCALE: 1" = 20'



PHASE DIAGRAM

SIGNAL INDICATIONS



TO CROSS
STREET →
PUSH BUTTON
WAIT FOR
WALK SIGNAL

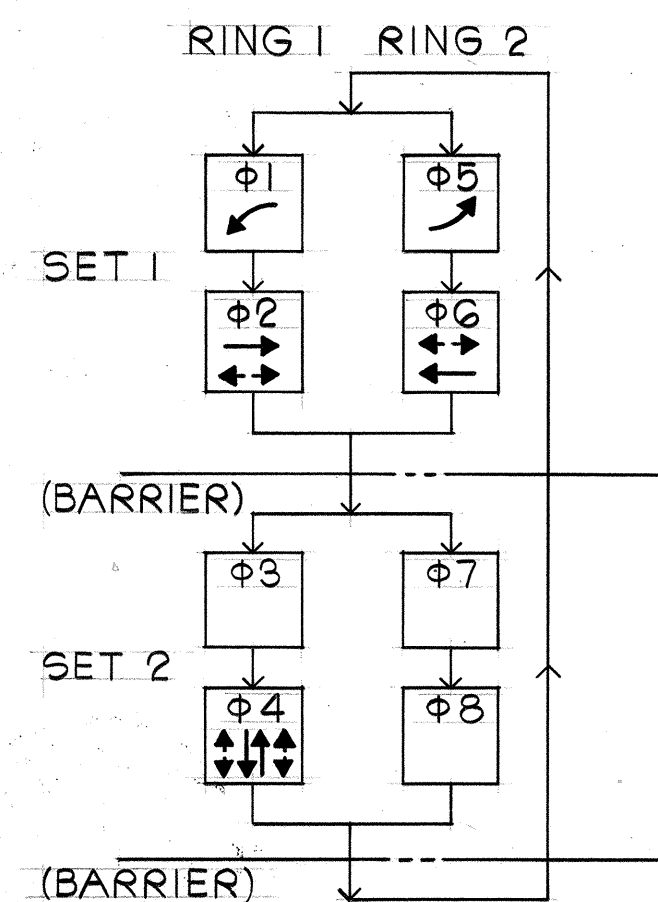
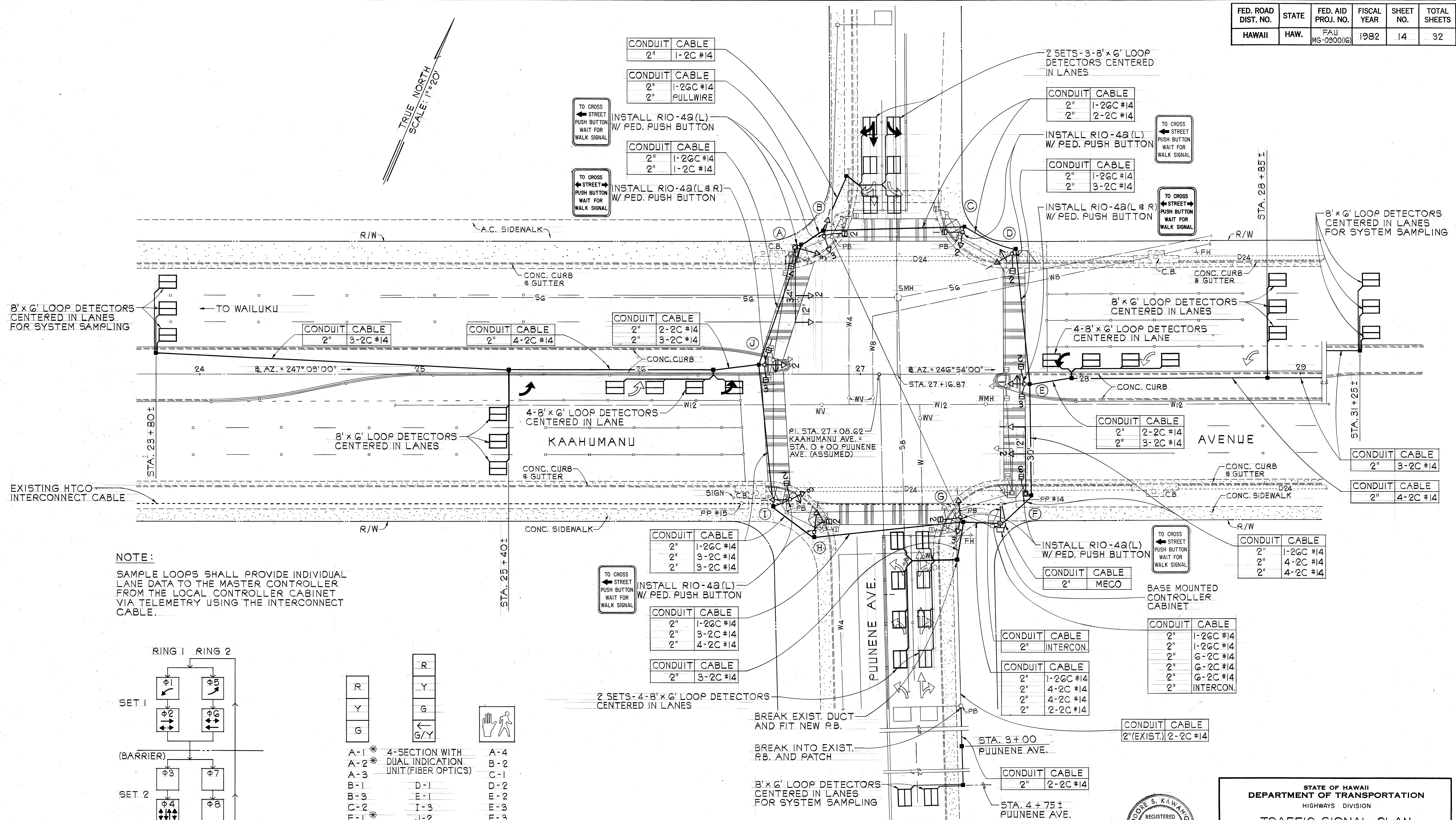


THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Theodore S. Kawachiya
Signature

E: AS SHOWN DATE: 4-27-82

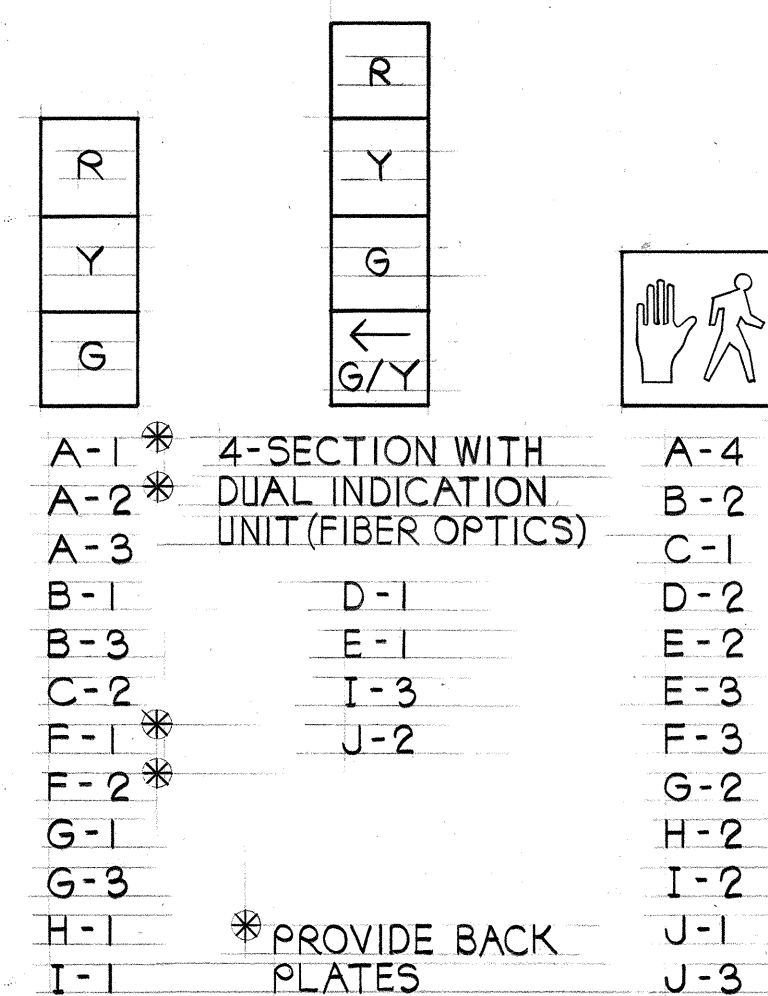
SHEET No. 5 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FAU MG-0900(16)	1982	14	32



NOTE: PROVIDE A LEAD LEFT TURN GREEN.
WHEN PRESENCE LOOPS ARE OCCUPIED.

PHASE DIAGRAM



SIGNAL INDICATIONS



THEODORE S. KAWACHI
REGISTERED
PROFESSIONAL
ENGINEER
No. 3244-E
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY
OR UNDER MY SUPERVISION

Theodore S. Kawachi
Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL PLAN
(PUUNENE AVENUE)

KAAHUMANU AVENUE
TRAFFIC SIGNAL
IMPROVEMENTS

FAU PROJECT NO. MG-0900(16)

SCALE: AS SHOWN DATE: 4-27-82

SHEET NO. 6 OF 6 SHEETS