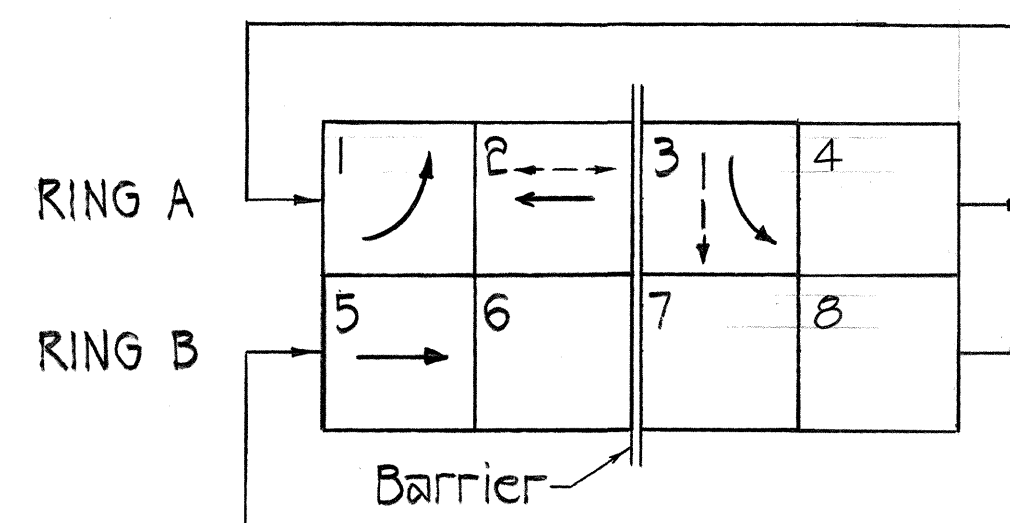


TRAFFIC SIGNAL NOTES

- All traffic signal equipment shall be completely wired in the cabinet & shall control the traffic signals as called for in the plan.
- The loop detector amplifier units furnished for this project shall be capable of operating the loop detector configurations shown on the plans.
- Should any defect be encountered during the warranty period, the manufacturer will be notified & he shall promptly correct such defect. Service call (by factory qualified representative) during the warranty period for repairs or other maintenance shall be answered within 24 hours & shall be done at no expense whatsoever to the state. All repairs shall be done as soon as possible.
- The location & relocation of the traffic signal standards, traffic signal standards with mast arm, pedestrian push buttons, traffic controller, pullboxes, barriers & loop detectors shall be staked out in the field by the Contractor & approval of the location obtained from the Engineer prior to construction & installation.
- Restoration of existing pavements & improvements unavoidably damaged shall be incidental to the various contract items. Restoration shall be to original or better condition.
- All traffic signal work shall conform to the requirements of the "Manual on Uniform Traffic Control Devices for Streets & Highways," Federal Highway Administration (1988) & amendments.
- Maintenance of traffic through the construction area shall be in accordance with Part VI of the "Manual on Uniform Traffic Control Devices for Streets & Highways," Federal Highway Administration (1988) & as specified in the special provisions. The Contractor shall furnish & maintain adequate barricades, blinkers, construction signs, etc. for the safety of the motoring public.
- Provide 18' minimum clearance to pavement grade from bottom of mast arms and signal indications for Type II Signal Standards.

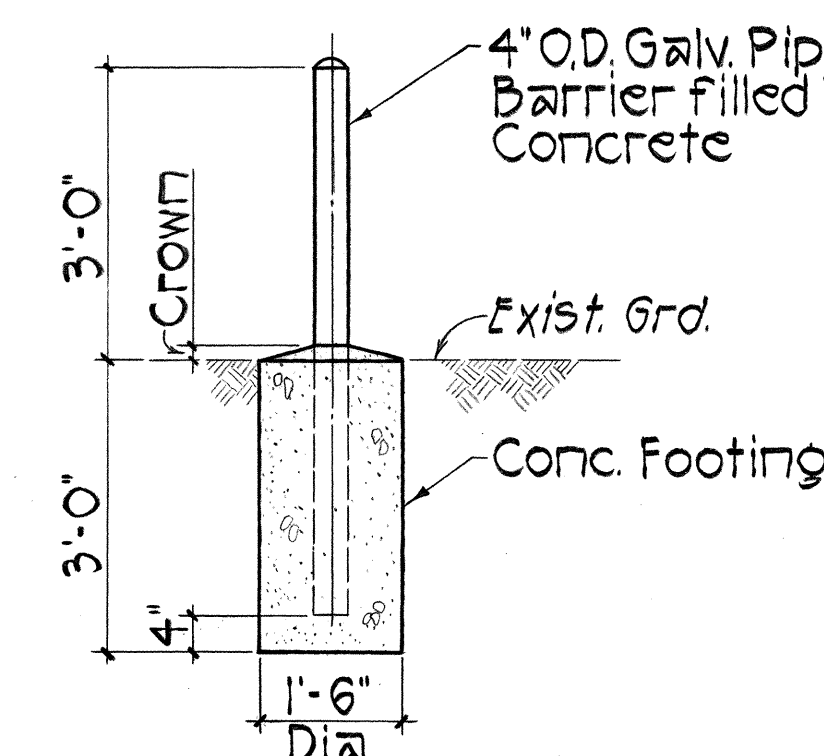
DATE	REVISION
5/20/92	Added 6'-6"x6' Loop Detectors to accommodate left turn during contra-flow at Kuamoo Rd. and Haleililo Rd. Revised conduit and cable schedule.
7/6/92	Revised Phasing

* * The Contractor shall provide on-off switch at the controller or police monitoring station to activate 6'-6"x6' Loop Detectors and deactivate left turn storage lane loops during contra-flow operation.



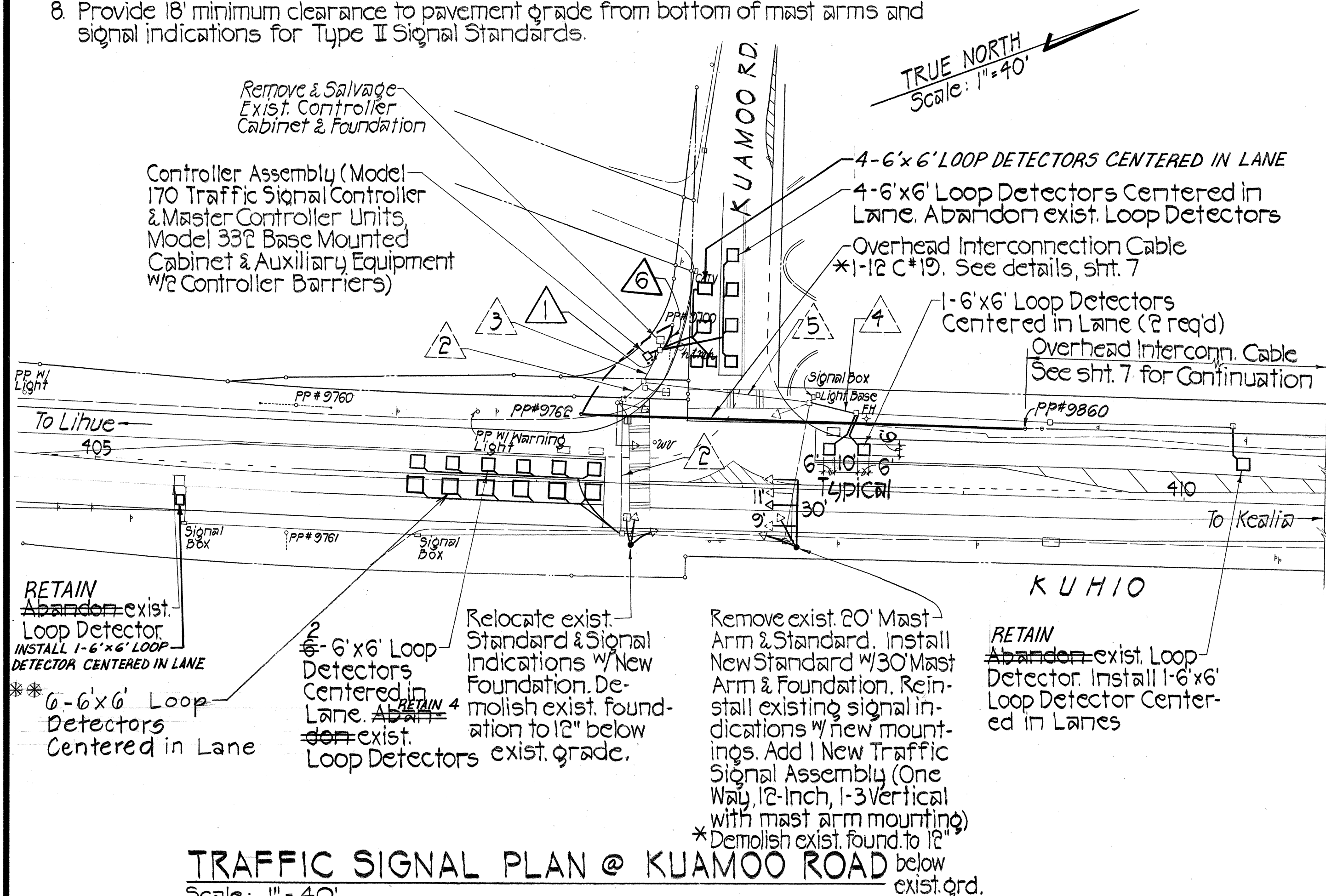
PHASE DIAGRAM

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-91	1992	13	17



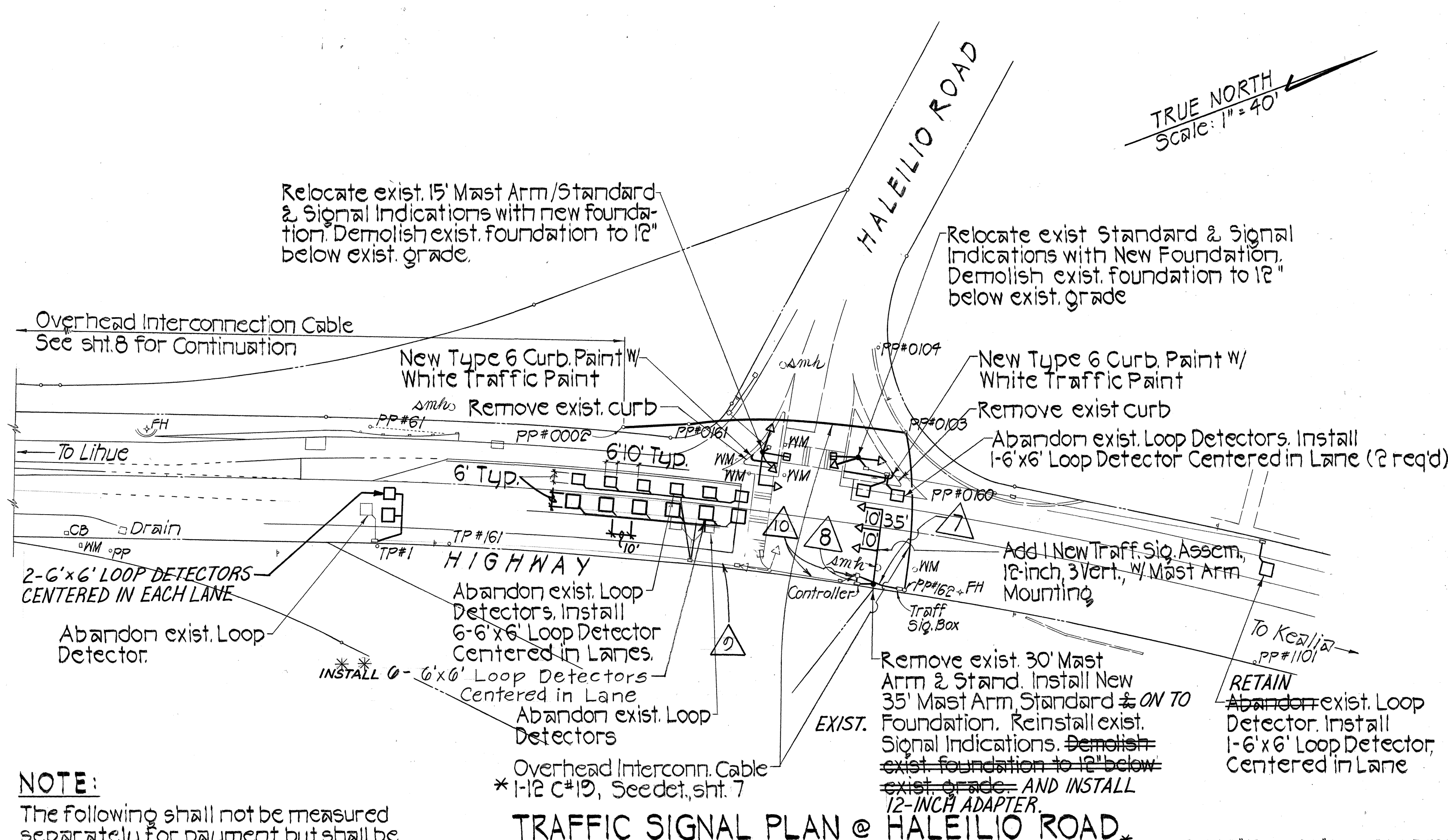
CONTROLLER BARRIER

Scale: 1/2" = 1'-0"



TRAFFIC SIGNAL PLAN @ KUAMOO ROAD

Scale: 1" = 40'



TRAFFIC SIGNAL PLAN @ HALEILIO ROAD

Scale: 1" = 40'

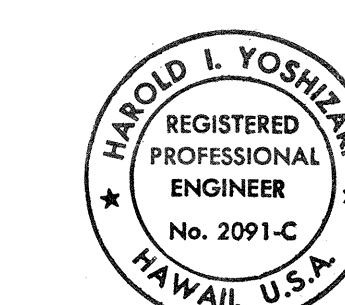
NOTE:

The following shall not be measured separately for payment but shall be considered incidental to various items of work.

- Contractor shall deliver removed 20' & 30' Mast Arm & Standard to D.O.T. Base Yard
- Removal of Type 6 Curb.
- Removal of stripes & markers.
- Demolishing existing foundations & restoring damaged areas to match surroundings.
- Painting of Type 6 Curb w/ White Traffic Paint.
- Remove and salvage existing Controller & Cabinet and demolish foundation after New Controller, Master Controller & Signal System becomes operational.
- Reinstall existing Traffic Signal Assembly with New Mounting.

CONDUIT & CABLE SCHEDULE

CONDUIT	CABLE	CONDUIT	CABLE
1 6 New 2" Sch 80	New 2-19C#14, New 7-2C#14, New 1-3C#6, New 1-12C#19	6 1 New 2" Sch. 80	New 1-12C#19
2 2 Exist. 2"	Exist 1-19C#14, Exist 2-2C#14, New 1-2C#14	7 1 Exist 2"	Exist. 1-3C#6
3 4 Exist. 2"	Exist. 2-19C#14, Exist. 4-2C#14, New 2-2C#14	8 5 Exist. 2"	Exist. 2-26C#14, Exist. 1-3C#6, Exist. 2-2C#14, New 1-2C#14
4 1 Exist. 2"	Exist. 1-2C#14, New 1-2C#14	9 1 New 2" Sch 80	New 1-12C#19
5 2 Exist. 2"	Exist. 1-19C#14, Exist. 2-2C#14, New 1-2C#14	10 1 Exist. 2"	Exist. 3-2C#14, New 1-2C#14
			Exist. 1-20C#14, Exist. 5-2C#14, New 1-2C#14



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

DATE	REVISION
12/10/91	*CHANGED 24C#19 TO 12C#19 & DEM. EXIST. FOUNDATION TO 12" BELOW EXIST. GROUND

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL PLAN

KUHIO HIGHWAY IMPROVEMENTS
LEHO DRIVE TO HALEILIO ROAD
PROJECT NO. 56A-01-91

SCALE: AS NOTED DATE: AUG. 6, 1991

SHEET No. 1 OF 2 SHEETS