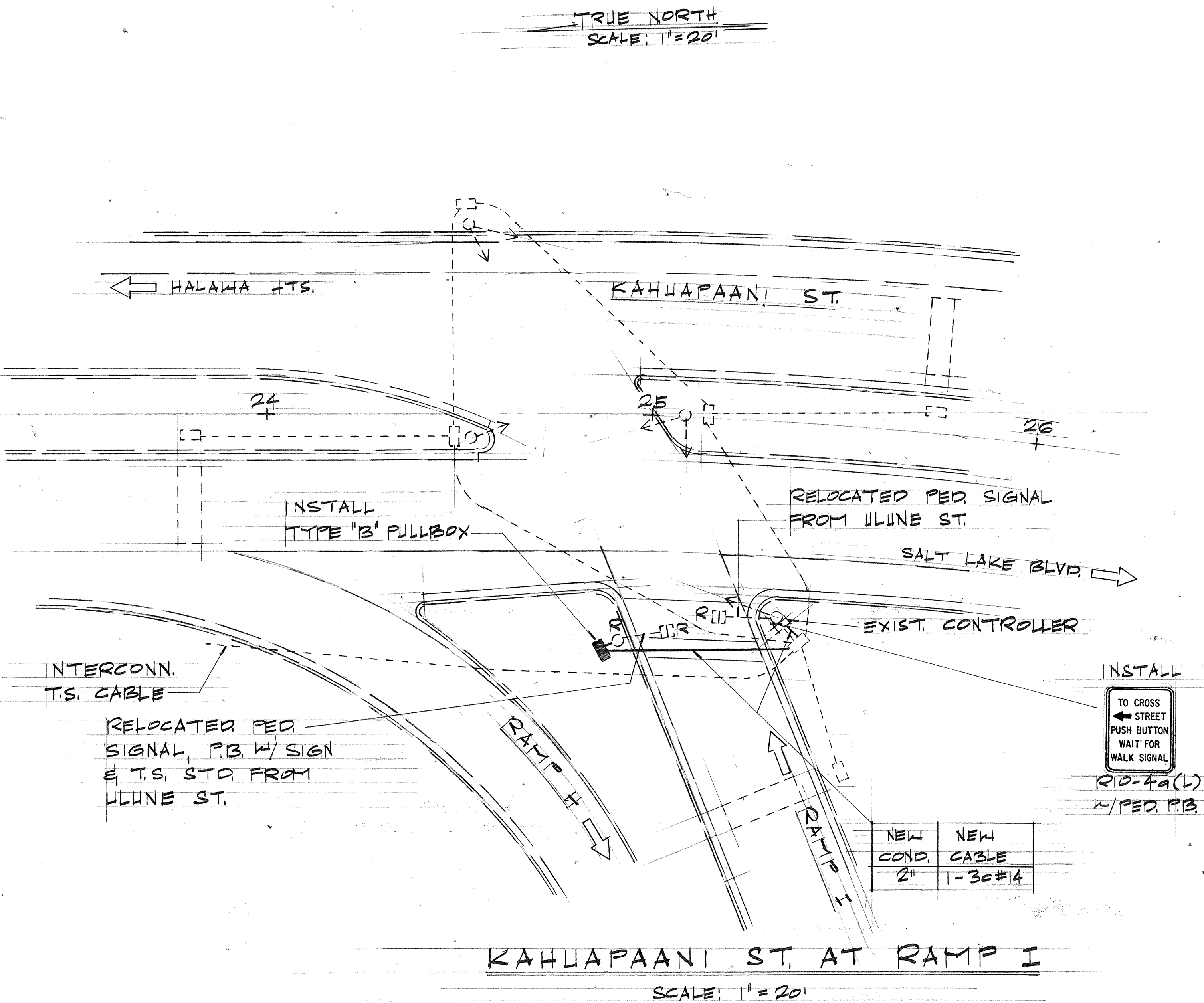
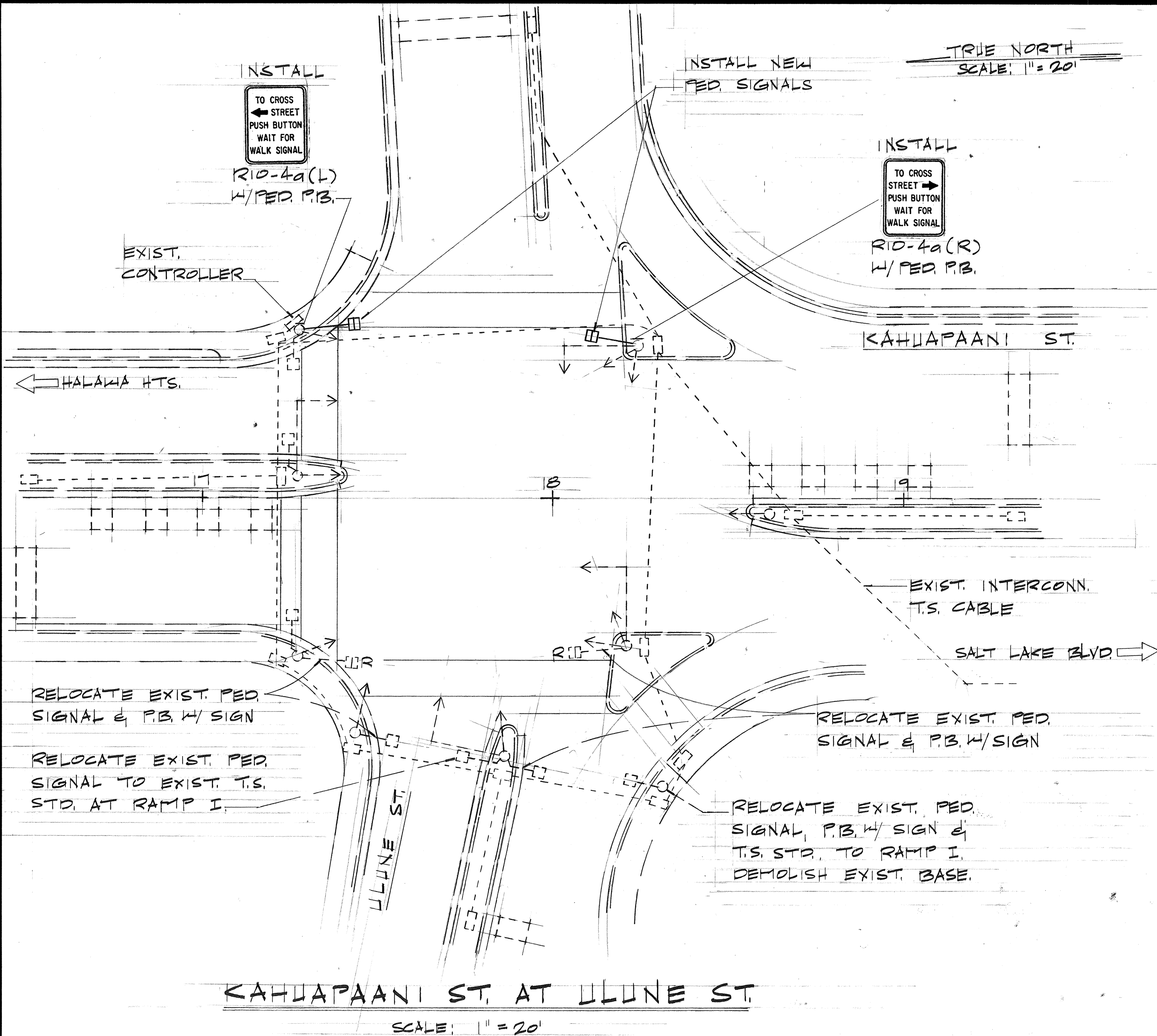


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(96)-13	1981	78	112



NOTE:

1. ALL SPLICES FOR THE INSTALLATION, RELOCATION OR REMOVAL OF PEDESTRIAN SIGNALS SHALL BE MADE IN PULLBOXES.
2. ALL PEDESTRIAN SIGNALS SHALL BE WIRED W/10-#14 (No. AS REQUIRED).
3. ALL EXIST. TRAFFIC SIGNAL SYSTEMS SHALL BE KEPT OPERATIONAL AT ALL TIMES.
4. LOCATIONS OF ALL TRAFFIC SIGNAL EQUIPMENT ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY LOCATIONS W/ THE ENGINEER.
5. SEE PLAN SHT. #80 FOR ADDITIONAL INFORMATION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

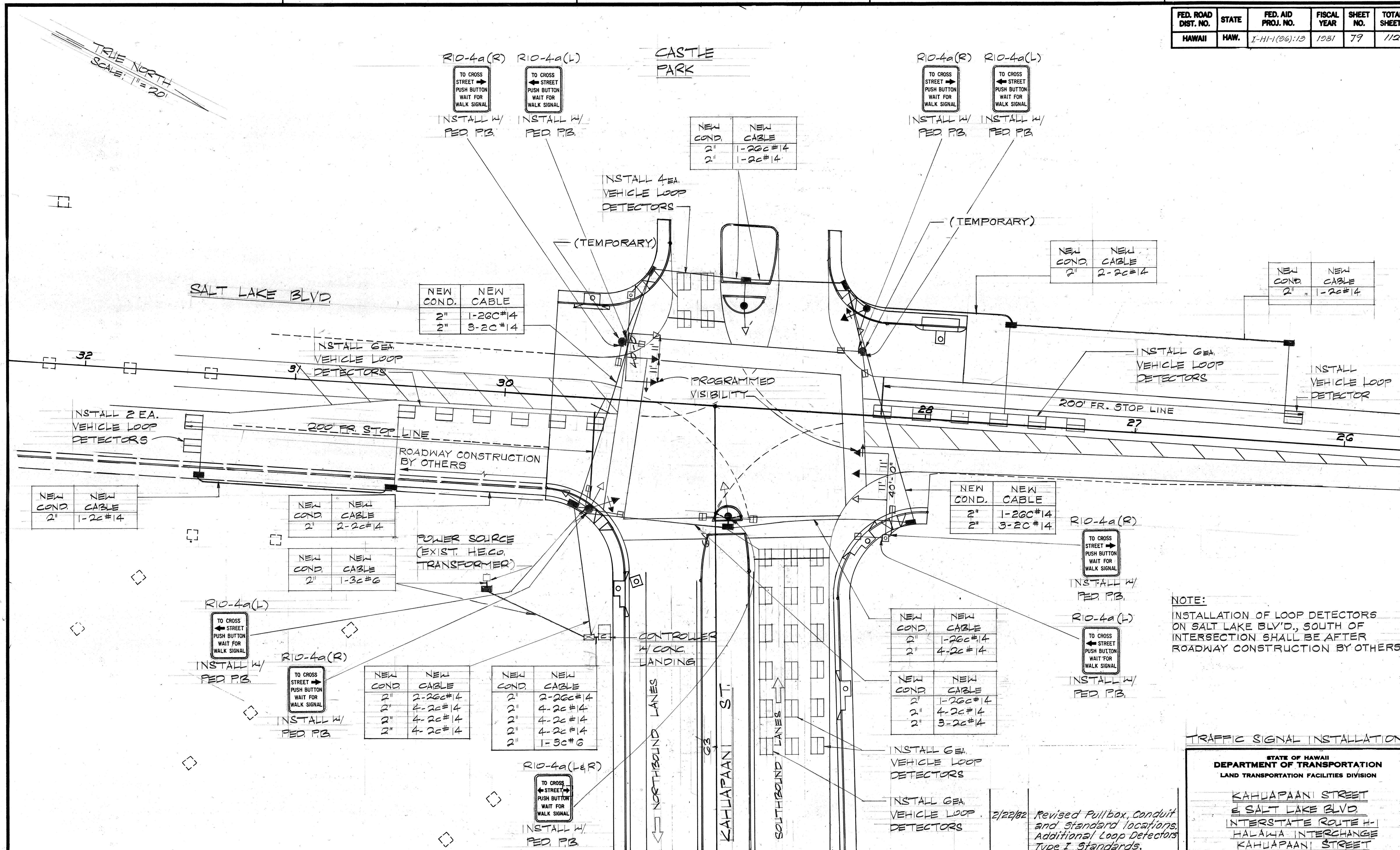
TRAFFIC SIGNAL REVISION

INTERSTATE ROUTE H-1
HALAWA INTERCHANGE
KAHUAPAANI STREET
FAI PROJ. NO. I-HI-1(96)-13
SCALE: AS SHOWN DATE: APR., 1981

SHEET NO. 1 OF 3 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NO. 1	DRAWN BY	
NO. 2	DESIGNED BY	
NO. 3	CHECKED BY	
NO. 4	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
HAWAII	HAW.	I-HI-1(96):13	1981	79	112



2/22/82	Revised Pullbox, Conduit and Standard locations. Additional Loop Detector Type I Standards, Signal Head and Note.
DATE	REVISION

TRAFFIC SIGNAL INSTALLATION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

KAHUAPAANI STREET
E SALT LAKE BLVD.
INTERSTATE ROUTE H-1
HALAWA INTERCHANGE
KAHUAPAANI STREET
F.A.I. PROJ. NO. I-HI-(96)13
SCALE: AS SHOWN DATE: APR., 1981

SHEET NO. 2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(26):13	1981	80	112

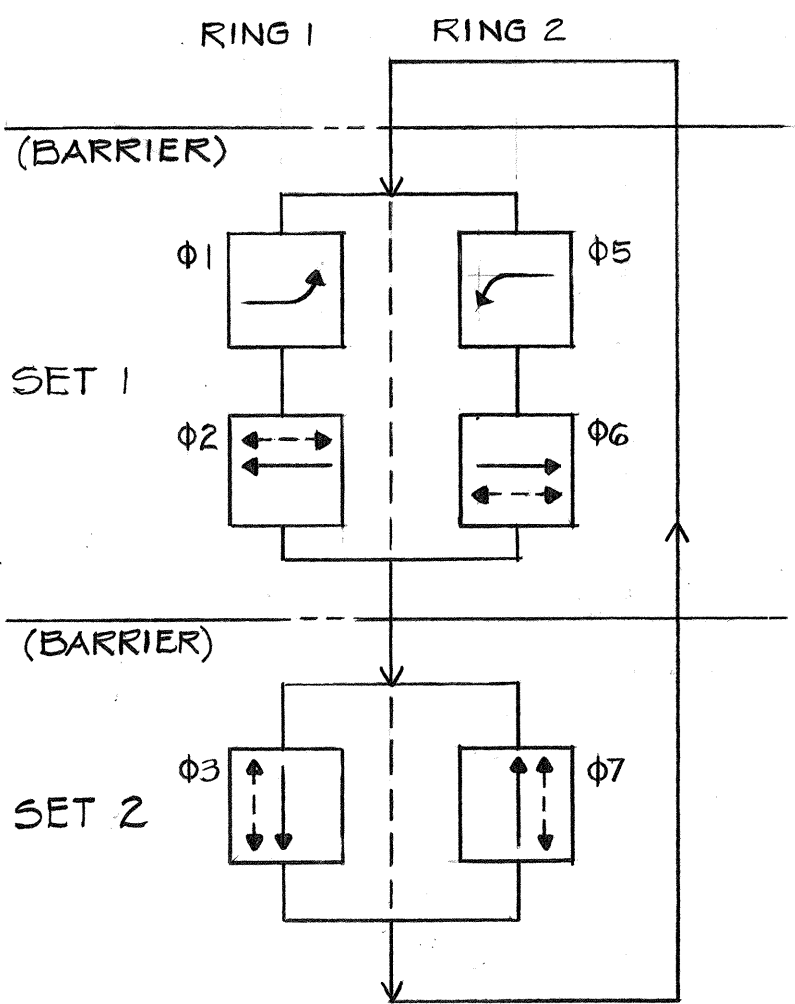
GENERAL NOTES

TRAFFIC SIGNALS

1. LOCATIONS OF EXISTING UNDERGROUND STRUCTURES OR UTILITIES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL LOCATE AND VERIFY THE LOCATIONS w/ THEIR RESPECTIVE OWNERS.
2. EXISTING UNDERGROUND STRUCTURES AND UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT HIS OWN COST.
3. THE LOCATIONS OF ALL NEW TRAFFIC SIGNAL EQUIPMENT SHALL BE STAKED OUT IN THE FIELD BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION AND INSTALLATION.
4. ALL NEW CONDUITS UNDER ROADWAYS (INCLUDING DRIVEWAYS) SHALL BE STEEL OR PVC SCHEDULE 80 UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL HAVE THE OPTION OF USING PVC SCHEDULE 40 FOR NEW CONDUITS NOT UNDER ROADWAYS.
5. ALL DUCT LINES UNDER ASPHALT CONCRETE ROADWAY (INCLUDING DRIVEWAYS) SHALL HAVE BACKFILL RESURFACED w/ ASPHALT CONCRETE MIX V THICKNESS TO MATCH EXISTING.
6. PEDESTRIAN PUSHBUTTON LEAD-IN WIRES SHALL BE 1-2c #14 CABLE PULLED IN THE SAME CONDUIT AS LOOP DETECTOR LEAD-IN CABLES.
7. A SOLID #8 BARE COPPER WIRE SHALL BE PULLED WITH THE 26c #14 LOOP CONTROL CABLE FOR EQUIPMENT GROUND. COST SHALL BE INCIDENTAL TO THE INSTALLATION OF THE 26c #14 CABLE.
8. THE LOCATIONS OF PAVEMENT MARKINGS AS SHOWN ON THE PLANS WITHIN THE TRAFFIC SIGNAL INSTALLATION AREA SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ENGINEER PRIOR TO THE INSTALLATION OF THE TRAFFIC SIGNAL SYSTEM.
9. STOP SIGNS SHALL BE REMOVED ONLY AFTER TRAFFIC SIGNAL SYSTEM BECOMES OPERATIONAL.
10. ALL NEW TRAFFIC SIGNAL CONTROLLER EQUIPMENT SHALL BE COMPLETELY WIRED IN THE CONTROLLER CABINET AND SHALL CONTROL THE TRAFFIC SIGNALS AS CALLED FOR IN THE PLANS.
11. THE COST OF CONCRETE JACKETS TO ENCASE NEW CONDUITS BY-PASSING EXISTING CONDUITS SHALL BE INCIDENTAL TO NEW "CONDUITS".

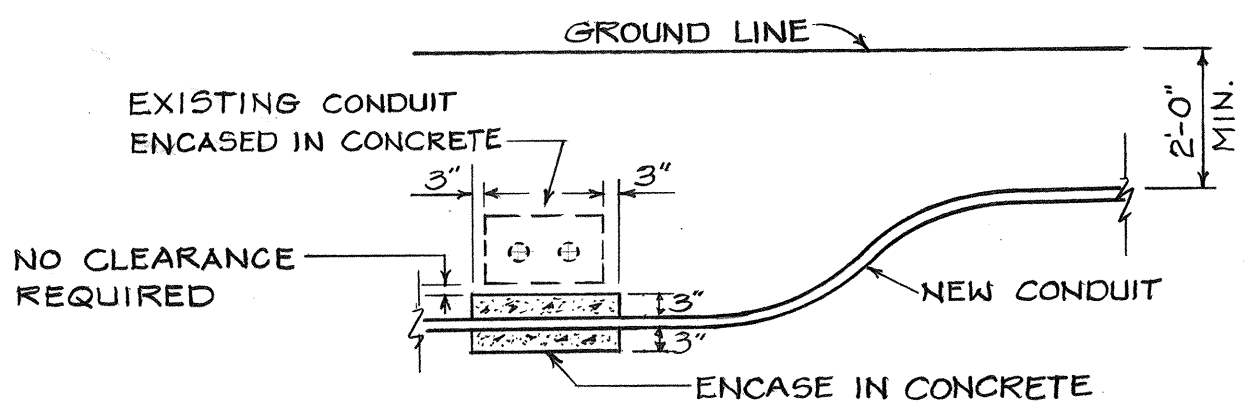
LEGEND

- NEW 12" RY↑ TRAFFIC SIGNAL HEAD
- NEW 12" RYG TRAFFIC SIGNAL HEAD
- NEW PEDESTRIAN SYMBOL INDICATION
- NEW RY← TRAFFIC SIGNAL HEAD (PROGRAMMED VISIBILITY WHEN CALLED FOR ON PLANS)
- EXISTING TRAFFIC SIGNAL ON EXISTING TRAFFIC SIGNAL STANDARD
- EXISTING PEDESTRIAN SIGNAL
- RELOCATED PEDESTRIAN SIGNAL ON RELOCATED TRAFFIC SIGNAL STANDARD
- NEW TYPE I TRAFFIC SIGNAL STANDARD w/ SIGNAL HEADS
- 40'-0" 40'-0" NEW TYPE II TRAFFIC SIGNAL STANDARD (SIGNAL HEADS & MAST ARM LENGTH AS SPECIFIED)
- NEW DUCT LINE (CONDUITS & CABLES AS SPECIFIED)
- EXISTING DUCT LINE
- NEW TRAFFIC SIGNAL SYSTEM CONTROLLER w/ 4" THICK CONCRETE LANDING ACROSS ENTIRE WIDTH (W) OF CONTROLLER
- NEW TYPE "B" PULLBOX
- NEW TYPE "A" PULLBOX
- EXISTING PULLBOX



PHASE DIAGRAM
NOT TO SCALE

NOTE:
PHASES 3 & 7 SHALL OPERATE IN
DOUBLE ENTRY MODE.



CONDUIT BY-PASS DETAIL
NOT TO SCALE

5/11/81 Revised Phase Diagram.
Date Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
MISCELLANEOUS DETAILS
FOR TRAFFIC SIGNALS
INTERSTATE ROUTE H-1
HALAWA INTERCHANGE
KAHUAAPAANI STREET
F.A.I. PROJ. NO. I-HI-1(26):13
NO SCALE DATE: APRIL, 1981
SHEET No. 3 OF 3 SHEETS