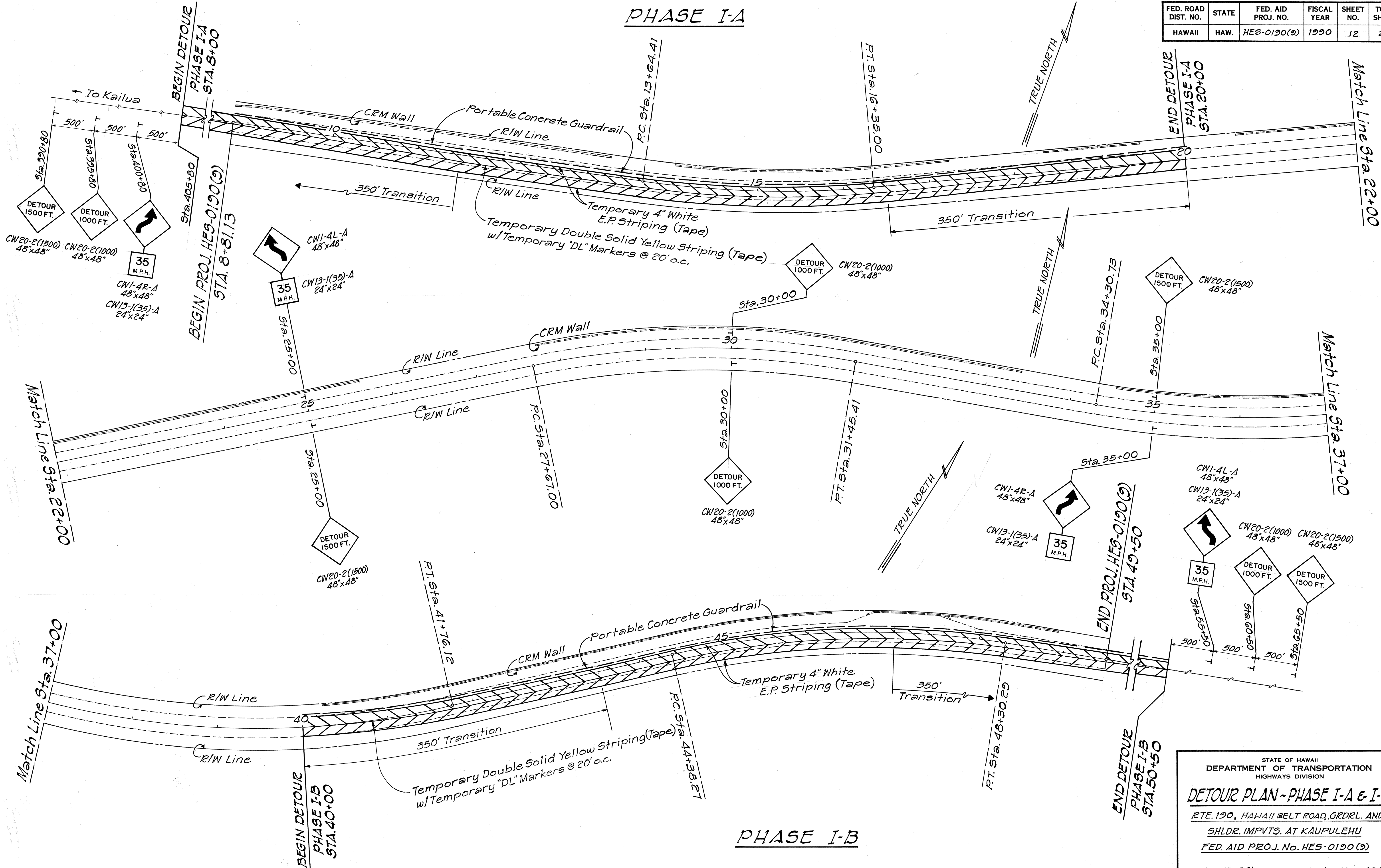


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HES-0190(9)	1990	12	24

PHASE I-A



ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETOUR PLAN - PHASE I-A & I-B

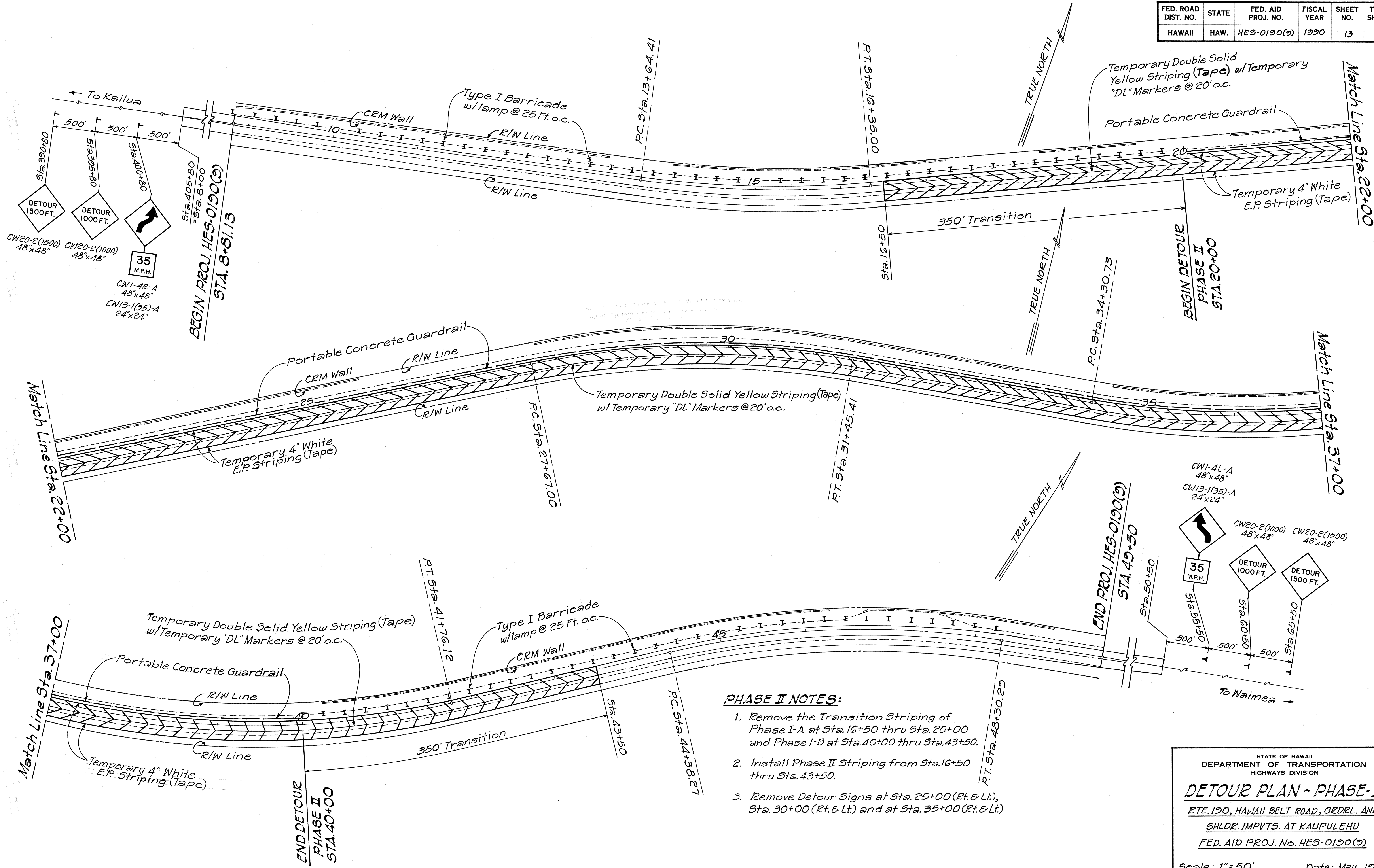
RTE. 190, HAWAII BELT ROAD, GRDL. AND
SHLDR. IMPVTS. AT KAUPULEHU

FED. AID PROJ. No. HES-0190(9)

Scale: 1"=50' Date: May, 1990

SHEET No. 1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HES-0190(2)	1990	13	24



ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

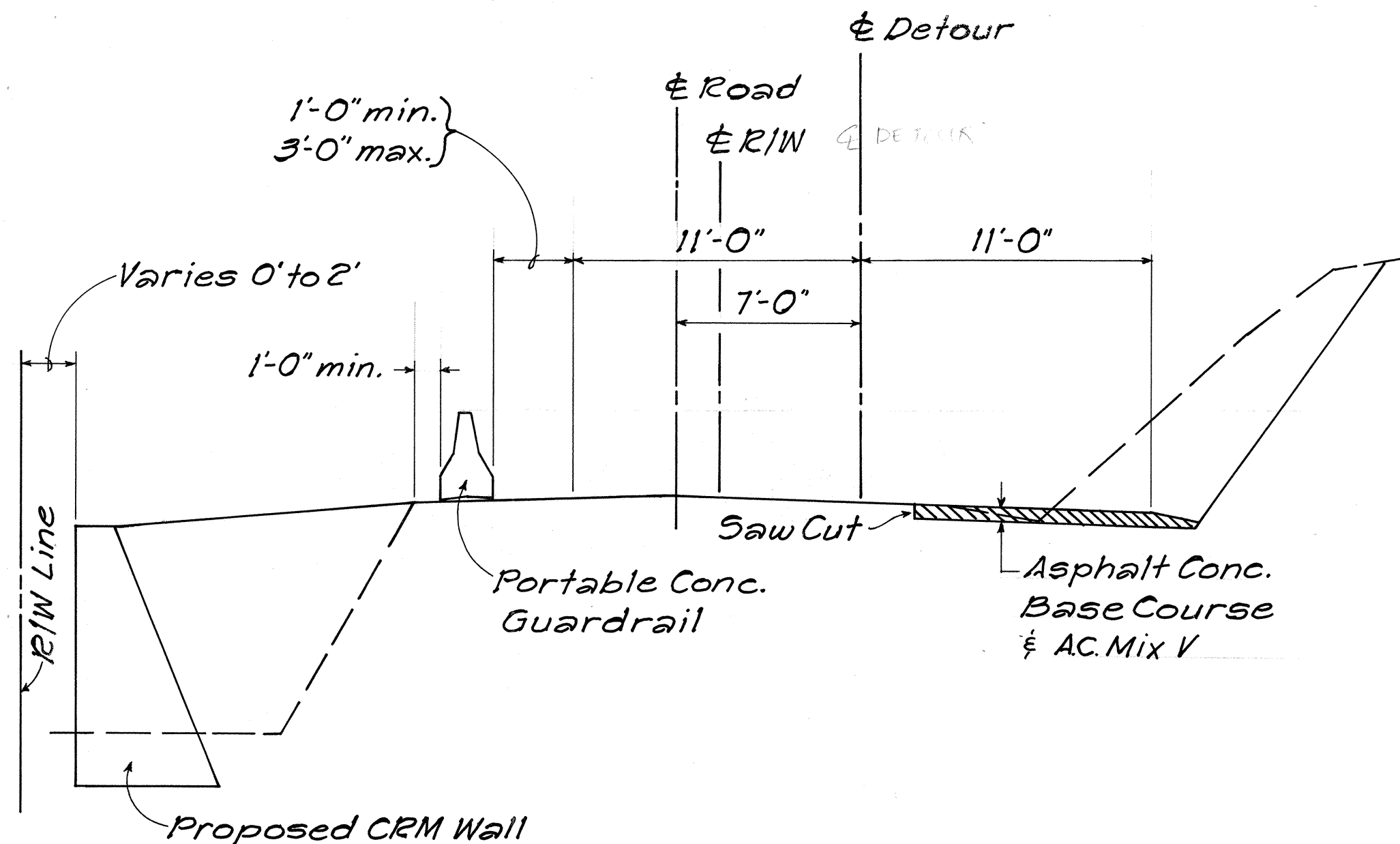
DETOUR PLAN - PHASE-II

ETE. 190, HAWAII BELT ROAD, GEDRL. AND
SHLDR. IMPVTS. AT KAUPULEHU
FED. AID PROJ. No. HES-0190(2)

Scale: 1"=50' Date: May, 1990

SHEET NO. 2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HES-0190(9)	1990	14	24



TYPICAL DETOUR SECTION
Not To Scale

PHASING NOTES:

PHASE I-A (Sta. 8+81 to 20+00)
PHASE I-B (Sta. 40+00 to 49+50)

1. Excavate from Sta. 8+81 to 20+00 and from Sta. 40+00 to Sta. 49+50.
2. Excavate and Reconstruct Right Shoulder with Asphalt Concrete Base Course & AC Mix V from Sta. ~~40+80~~⁴⁰⁺⁸⁰ to Sta. 20+00 and from Sta. 40+00 to Sta. 49+50.
3. Remove and/or Eradicate Existing Pavement Striping and Markers from Sta. ~~40+80~~⁴⁰⁺⁸⁰ to Sta. 20+00 and from Sta. 40+00 to Sta. 49+50. Install Phase I-A and I-B Detour Striping.
4. Install Portable Concrete Guardrail and Excavate for CRM Wall and Build Retaining Wall.

PHASE II (Sta. 20+00 to 40+00)

1. Excavate from Sta. 20+00 to Sta. 40+00
2. Excavate and Reconstruct Shoulder with Asphalt Concrete Base Course & AC Mix V.
3. Remove and/or Eradicate Existing Pavement Striping and Markers from Sta. 16+50 to Sta. 43+50.
4. Relocate Portable Concrete Guardrail from Phase I to Phase II.
5. Install Type I Barricades with Lamp at Sta. 8+80 through Sta. 20+00 and at Sta. 40+00 through Sta. 50+50 at 25 ft. o.c.
6. Excavate for CRM Wall and Construct Wall.

* DETOUR SIGN SUMMARY			
TYPE	DESCRIPTION	QTY. EACH	
		w/POST	w/o POST
CW 13-1 (35)	35 MPH		4
CW 20-2 (1,500)	DETOUR 1,500 FT.	4	
CW 20-2 (1,000)	DETOUR 1,000 FT.	4	
CW 1-4R-A		2	
CW 1-4L-A		2	
TOTALS		12	4

* See Detour Plan Phase I-A, I-B and Phase II for Sign Location.

ITEM No. 645.3000
CONSTR. & MAINT. DETOUR SCHEDULE

ITEMS	APPROX. QUANTITY	UNIT
Regulatory & Warning Signs (Construction)	4	Each
Construction Signs w/ Two Posts	12	Each
Type I Barricades with Lamp	90	Each
4-Inch Temporary Pavement Striping (Tape)	9,900	LF
Double 4-Inch Temp. Pavement Striping (Tape)	4,950	LF
Type "DL" Temporary Pavement Markers	249	Each
Relocating Portable Concrete Guardrail	100	Each

PORTABLE CONCRETE GUARDRAIL SCHEDULE

PHASE I-A & I-B		
STATION	646.1000 PORT. CONC. GUARDRAIL (INT. PANEL)	646.1010 PORT. CONC. G.R. TERMINAL PANEL
8+80 to 20+00 L	54	2
40+00 to 49+20 L	44	2
TOTALS	98 Each	4 Each
PHASE II: Remove Port. Conc. Guardrail from PHASE I and place as follows: (This work shall be paid for under Item No. 645.3000 Construction & Maintenance of Detours.)		
STATION	PORT. CONC. GUARDRAIL (INT. PANEL)	PORT. CONC. GUARDRAIL TERMINAL PANEL
20+00 to 40+00	98 Each	2 Each

CONSTRUCTION DETOUR NOTES:

1. All Roadway Areas Excavated Adjacent to Travelways shall be Restored to Smooth Riding Connection during Work Stoppages and Non-Working Hours.
2. Detour Plan shown is Designed to Provide for Traffic during Working and Non-Working Hours. The Exact Limits and Locations of Detours shall be Determined by the Engineer in the Field.
3. Temporary Pavement Markers and Striping (Tape) shall be Installed along Detours and Maintained at All Times. Payment shall be made under Item 645.3000 "Construction and Maintenance of Detours".

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**DETOUR TYPICAL SECTION,
SIGN SUMMARY & SCHEDULES**

RTE. 190, HAWAII BELT ROAD, GRDDL. AND
SHLDR. IMPVTS. AT KAUPULEHU
FED. AID PROJ. No. HES-0190(9)
Scale: As Noted Date: May, 1990

SHEET No. 3 OF 3 SHEETS