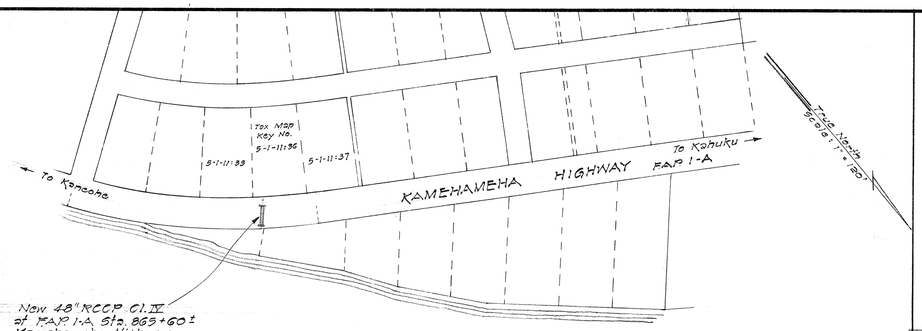
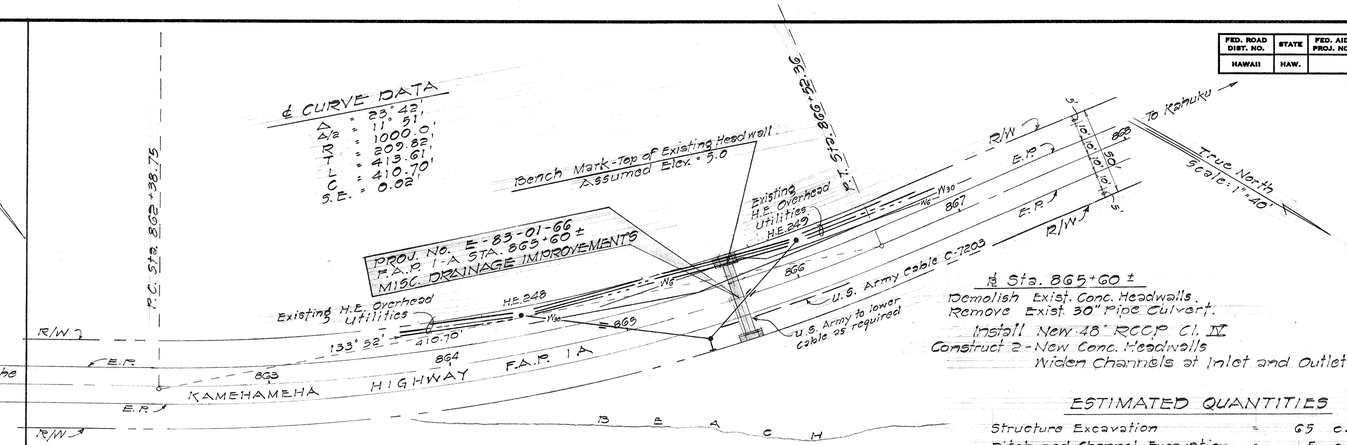
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.				



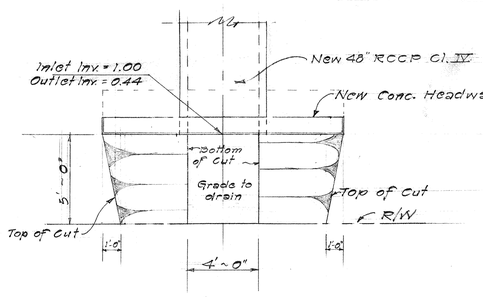
LAYOUT PLAN



½ Sta. 865+60±

Demolish Exist. Conc. Headwalls.
Remove Exist. 30" Pipe Culvert.
Install New 48" RCCP Cl. IV
Construct 2 - New Conc. Headwalls
Widen Channels at Inlet and Outlet

PLAN



TYPICAL OF WIDENED CHANNEL FOR OUTLET AND INLET

Scale: 1" = 4'-0"

LEGEND

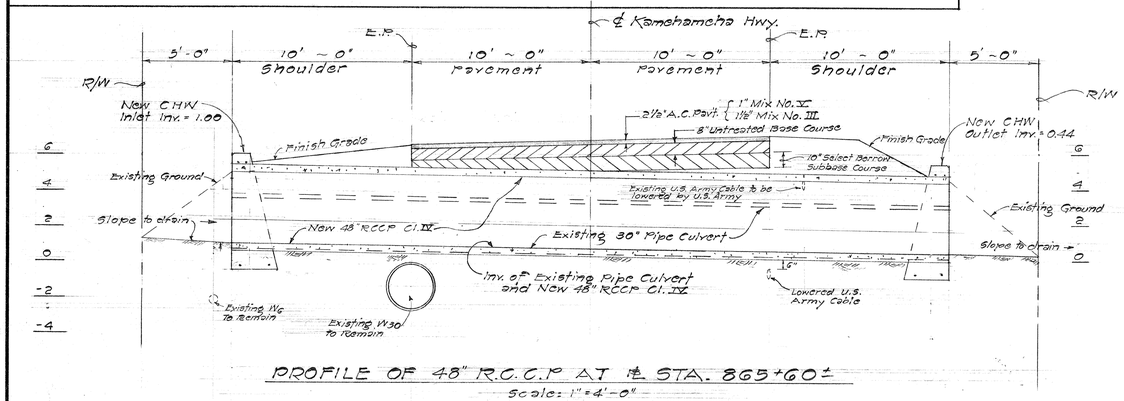
- Existing Pole
- Existing Anchor
- Head Guy
- 46 KV Overhead Lines
- 12 KV " "
- Secondary " "

ESTIMATED QUANTITIES

Structure Excavation	=	65 c.y.
Ditch and Channel Excavation	=	5 c.y.
Class "B-1" Concrete	=	10 c.y.
Reinforcing Steel	=	160 Lbs.
48" RCCP, Cl. IV	=	40 L.F.
Restoring Highway Pavement	=	L. S.

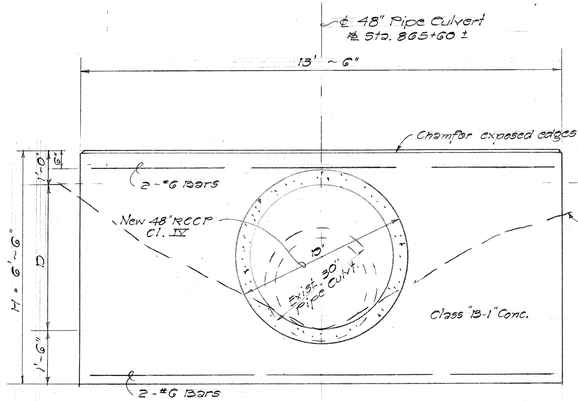
GENERAL NOTES

1. All elevations indicated are relative to benchmark as shown on plan.
2. New Bench Mark shall be established before existing concrete headwall is demolished.
3. Existing pavement consists of asphalt concrete overlay on Portland Cement Concrete. Provide easy riding connection to existing pavement.
4. Demolishing existing concrete headwalls shall be incidental to Structure Excavation and Backfill.
5. The Contractor shall salvage existing 30" Concrete Culvert Pipe and deliver it to the State Highway Hauula Base Yard. This work shall be considered included in the cost for furnishing and installing the 48" RCCP.
6. The Contractor shall Notify the Office of the Signal Officer, United States Army Hawaii in writing 10 working days prior to commencing work on the cable.



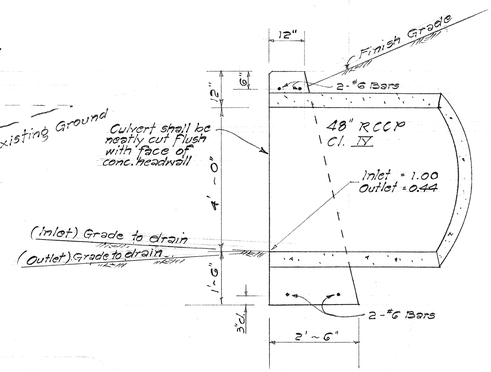
PROFILE OF 48" R.C.C.P AT ℄ STA. 865+60±

Scale: 1" = 4'-0"



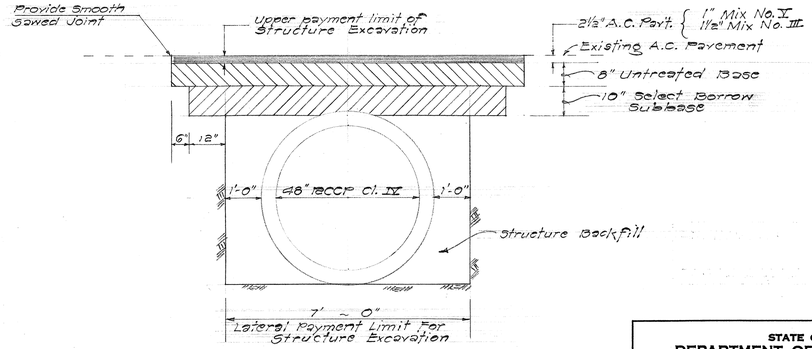
FRONT ELEVATION

Scale: ⅛" = 1'-0"



SIDE ELEVATION

Scale: ½" = 1'-0"



TYPICAL ASPHALT CONCRETE PAVEMENT SECTION

Scale: ½" = 1'-0"

DETAILS OF CONCRETE HEADWALL

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
No.	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNIT I

98 INCH PIPE CULVERT
VICINITY OF KAAAWA PARK

PLAN AND PROFILE

Proj. No. 83-01-66

Scale: As Noted Date: May, 1966

SHEET No. 2 OF 4 SHEETS

PRINTED ON NO. 1000H CLEARPRINT