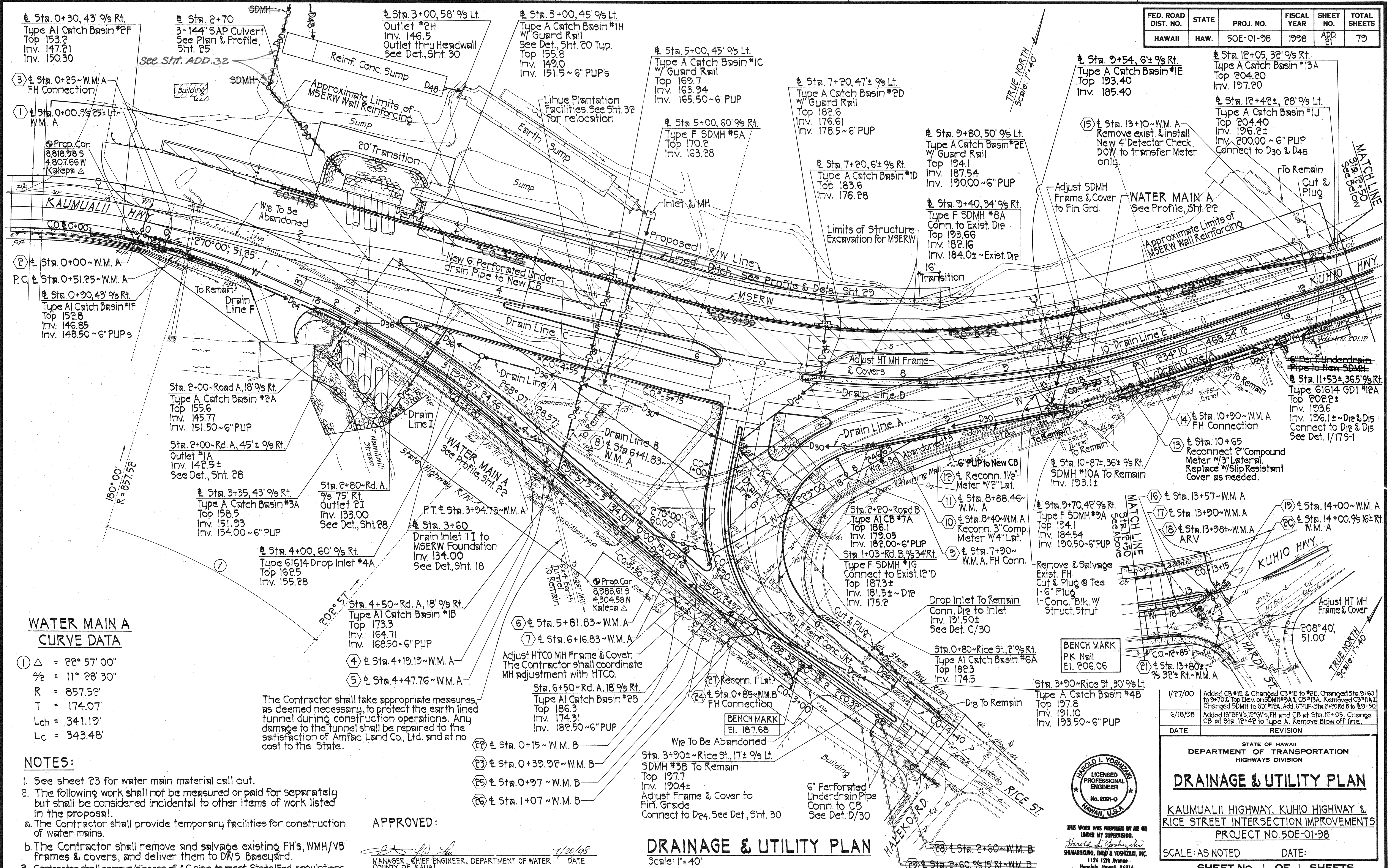


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50E-01-98	1998	ADD. 21	79



WATER MAIN A CURVE DATA

- ① $\Delta = 22^\circ 57' 00''$
- $\frac{\pi}{2} = 11^\circ 28' 30''$
- $R = 857.52'$
- $T = 174.07'$
- $Lch = 341.19'$
- $Lc = 343.48'$

NOTES:

- See sheet 23 for water main material call out.
- The following work shall not be measured or paid for separately but shall be considered incidental to other items of work listed in the proposal.
 - The Contractor shall provide temporary facilities for construction of water mains.
 - The Contractor shall remove and salvage existing FH's, WMH/VB frames & covers, and deliver them to DWS Baseyard.
 - Contractor shall remove/dispose of AC pipe to meet State/Fed. regulations.

The Contractor shall take appropriate measures, as deemed necessary, to protect the earth lined tunnel during construction operations. Any damage to the tunnel shall be repaired to the satisfaction of Amfac Land Co., Ltd. and at no cost to the State.

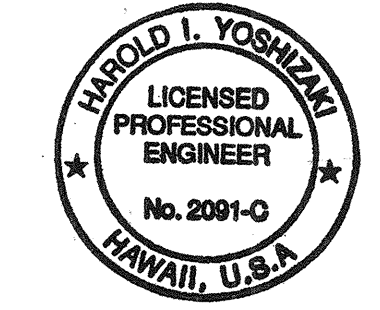
APPROVED:

MANAGER, CHIEF ENGINEER, DEPARTMENT OF WATER
COUNTY OF KAUAI
DATE 1/20/98

DRAINAGE & UTILITY PLAN

Scale: 1" = 40'

BENCH MARK
PK Nail
E1. 206.06



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

DATE	REVISION
1/27/00	Added CB #1E & changed CB #1E to #2E. Changed Sta 9+50 to 9+70.5. Top Elev. on SDMH #9A & CB #13A. Removed CB #11A.2. Changed SDMH to GDI #12A. Add 6" PUP. Sta. 2+00 Rd. B to 2+20.
6/18/98	Added 18" BV's, 12" G's, FH and CB at Sta. 12+05. Change CB at Sta. 12+42 to Type A. Remove Blow off line.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE & UTILITY PLAN

KAUMUALII HIGHWAY, KUHIO HIGHWAY &
RICE STREET INTERSECTION IMPROVEMENTS
PROJECT NO. 50E-01-98

SCALE: AS NOTED DATE:

SHEET NO. 1 OF 1 SHEETS

"AS-BUILT"

C.O. ADD. 21