

GENERAL NOTES:

- This Project entails grading, paving, pavement grooving, constructing concrete barriers and impact attenuation devices, installing new metal guard rails, pavement markers, striping, traffic signs, and adjusting existing drainage, sprinkler water manhole and highway lighting systems, reconstructing ramps, modifying end blocks, and removing overhead sign footings.
- Pavement Grooving:
 - P.C.C. Roadway surfaces as noted on the plans shall be grooved.
Areas where pavement grooving shall be excluded are P.C.C. surfaces topped with Asphalt Concrete, all Asphalt Concrete surfaces, and P.C.C. surfaces grooved under previous projects.
 - The Waialae Viaduct Structure shall be grooved.
 - P.C.C. Ramps as noted on the plans shall be grooved.
- The existing median curb and gutters, and metal guard rail between Kalo Lane and Kokohead Avenue shall be removed and the median flushed. New pavement structure and concrete barriers shall be constructed in the median as shown on the plans.
- All materials and information necessary to properly construct and install the Cushion Barrier Impact Attenuator Devices shall be furnished by the Manufacturers of the cells. All bolts, straps, and other appurtenances necessary for the installation of the cushion barrier shall be placed in accordance with the Manufacturer's recommendations.
- Removing existing chain link fence, furnishing and installing 6" chain link fence end post, notching the concrete barrier footing, saw cutting existing A.C. pavement, concrete curb and gutter and concrete sidewalk, and restoring the existing A.C. Pavement, concrete curb and gutter, aggregate base, and concrete sidewalk along the new concrete barrier shall be incidental to the Concrete Barrier Type 4E and 4F and shall not be paid for separately.
- Installation of additional guard rail steel posts with spacer blocks at existing guard rails shall be considered incidental to Item No. 606.3110 Guard Rail Type 3-Single with Steel Post and will not be paid for separately.
- Paving of the median with 9-inch Unreinforced PCC Pavement will be paid for under Item No. 411.2200. Aggregate Subbase will be paid for under Item No. 305.1110.
- Roadway excavation for shoulders and gore areas shall be paid for by the square yard under Item No. 203.0280.

WATER NOTES ~ BOARD OF WATER SUPPLY

- The Contractor shall give the Board of Water Supply, in writing, at least seven (7) calendar days advance notice of intent to commence work on the water system.
- Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, dated 1976, as amended, of the Hawaii Highways Division, Department of Transportation.
- The existence and location of underground utilities, manhole and structures as shown on the plans are from the latest available data but is not guaranteed as to the accuracy or the encountering of obstacles during the course of the work. The Contractor shall be responsible and shall pay for all damages to the existing utilities resulting from his operations.
- The Contractor shall adjust the existing water manhole frames and covers to new grade. Prior to paving the Contractor shall locate and reference the existing manholes for adjusting after paving. This work shall be considered incidental to Item No. 604.4010 Adjusting Manhole Frame and Cover and will not be paid for separately.
- The Board of Water Supply Standard Details, Figures 1 to 62 inclusive, bound in the "Water System Standards" of the Board of Water Supply, dated March 1977, as amended, are applicable to this project.
- Items indicated as "relocate" on the plans shall be removed, cleaned, painted and reinstalled at the new location by the Contractor unless otherwise specified.
- The maximum clearance between fire hydrants and utility poles or light standards shall be 3.0 feet.
- Prior to excavating for new drain, sewer and other utility lines, the Contractor shall verify in the field the location of existing water mains and appurtenances.
- Any adjustment to existing water system required during construction to meet requirements of the Board of Water Supply Standards, whether shown on the plans or not, shall be done by the Contractor at no cost to the Board of Water Supply.
- Approval by the Board of Water Supply is based solely on the adequacy of the water supply.
- Where the installation of other utilities are to cross over or under existing water mains, the Contractor shall expose the existing water mains prior to trenching. Excavation around water mains shall be done by hand.
- Discrepancies, if any, of alignments, grades, fitting, etc. Shall not be the responsibility of the Board of Water Supply.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(184)	1984	7	114

APPROVED: _____
DATE 4-4-83
R. H. H. H.
For CHIEF, PLANNING & ENGINEERING, BWS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL NOTES & WATER NOTES
INTERSTATE ROUTE H-1
SAFETY IMPROVEMENTS
KALO LANE TO AINAKOA AVE.
F.A.I. PROJECT NO. IR-HI-1(184)
Date: March, 1983
SHEET NO. OF SHEETS

3/31/84 Added Notes 7 & 8 per Addendum No.
DATE REVISION