GENERAL NOTES:

WATER:

- 1. Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, dated 1976, as amended, of the Hawaii Highways Division, Department of Transportation.
- 2. The BWS Standard Details, Figures ! to 62 inclusive, bound in the "Water System Standards" of the BWS, dated March 1977, as amended, are applicable to this Project.
- 3. 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.
- Where the installation of new drain, sewer, or other utility lines 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.
- 4. The minimum clearance between fire hydrants and utility poles or light standards shall be 3.0 feet.
- 5. The Contractor shall notify the Board of Water Supply in writing one week prior to commencing Work on the water system.
- 6. Approval by the Board of Water Supply is based solely on the adequacy of the water supply.
- Discrepancies, if any, of alignments, grades, fittings, etc. shall not be the responsibility of the Board of Water Supply.
- 7. The existence and location of underground utilities 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 other obstacles during the course of the work. The Contractor shall be responsible and shall pay for all damages to existing utilities.
- 8. Any adjustments to the existing water system required during construction to meet requirements of BWS Standards, whether shown on the plans or not, shall be done by the Contractor at no cost to the Board.

ELECTRIC:

- I The existence and location of HECO's overhead and underground facilities as shown on the plans are from existing records of varying degrees of accuracy and are not guaranteed as shown, therefore, the Contractor is to exercise extreme caution when the excavation and construction crosses or is in close proximity of underground electrical facilities and maintain adequate clearance for his equipment while working close to and for under the overhead facilities.
- 2. The Contractor is to comply with the directions of the State of Hawaii Occupational Safety and Health Law (DOSH).
- 3. The Contractor is to obtain a clearance to excavate from HECO Mapping and Record Division, 4th floor, 820 Ward Avenue two weeks prior to start of construction.
- 4. For verifying the location of underground duct lines and for assistance in providing proper support and protection of the underground duct lines, the Contractor is to contact HECO Underground Division at 548-7395 a minimum of 72 hours in advance.
- 5. The Contractor shall be liable for any damages to HECO's facilities.
- 6. The Contractor shall report any damages to HECO's facilities to the HECO Trouble Dispatcher at Phone No. 548-7961.

<u>GA5:</u>

- 1. The Gasco, Inc. gas pipelines in the project area are plastic coated and cathodically protected. The Contractor shall be extremely careful when working near these gas pipelines.
- 2. Prior written clearance must be obtained from Gasco, Inc. at least five working days before starting excavation near these gas lines.

Since gas line locations on field maps are approximate, the Contractor, after obtaining written clearance, shall call Gasco, Inc., a minimum of 48 hours before starting excavation to arrange for field location of existing gas lines. The telephone number is 547-3575 during business hours, and 526-0066 after hours.

The Contractor shall excavate and backfill around gas pipelines in the presence of a Gasco, Inc. representative. All backfill within six inches of any gas pipeline shall be select cushion material approved by Gasco, Inc.

- 3. For relocation of any gas pipeline, the Contractor shall notify Gasco, Inc. five working days before starting work. The Contractor shall provide the necessary excavation and backfill, arrange for traffic permits, and restore sidewalk, pavement, or other facilities. Any relocation of gas facilities shall be done by Gasco, Inc.
- 4. The Contractor shall notify Gasco, Inc. immediately after any damage has been caused to existing gas pipelines, their coatings or their cathodic protection devices. Repair work on this damage shall be done by Gasco, Inc. with payment for this work to be borne by the Contractor.
- 5. Minimum vertical or horizontal clearance between gas pipelines and other pipelines, conduits, or ductlines shall be 12 inches. Adequate support and protection for gas pipelines exposed in the trench shall be provided and approved by Gasco, Inc.
- 6. The Contractor shall work in an expeditious manner in order to keep uncovered gas pipelines exposed for as short a period of time as possible.

SEWER

- 1. All sewer construction shall be performed in accordance with the city's standard specifications, dated May 1975, and the latest Department of Public Works standard details, August 1976, current city practices and revised ordinances of Honolulu, 1978, as amended.
- 2. In the event that any change in alignment or grade for the proposed sewers are required due to unforseen conflict with other utilities, the engineer in charge or the maker of the plans shall be responsible for the required changes which are to be presented to the Division of Wastewater Management for approval.
- 3. The contractor shall notify the Division of Wastewater Management seven (7) days prior to the commencement of work and submit four (4) sets of approved construction plans.
- 4. The underground pipes, cables or ductlines known to exist by the engineer from his research of records are indicated on the plans. The contractor shall verify the location and depth of the facilities and exercise proper care in excavating the area.
- 5. The contractor shall be responsible for maintaining continuous sewer service to all affected areas during construction.

FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	F-063-1(17)	1984	53	156

GRADING

REAPPROVAL

APPROVED:

CHIER, PLANNING AND ENGINEERING DIV

Muliar John

DIRECTOR AND CHIEF ENGINEER DEPARTMENT OF PUBLIC WORKS

- All grading work shall be done in accordance with Chapter 23, Grading, Soil Erosion & Sediment Control, of the Revised Ordinances of Honolulu, 1978, as amended (Ordinance No. 81-13).
- 2. All grading operations shall be performed in conformance with the applicable provisions of the Water Pollution Control & Water Quality Standards contained in the Public Health Regulations, State Department of Health, on Water Pollution Control and Water Quality Standards.
- 3. The Contractor shall keep the project area and surrounding area free from dust nuisance. The work shall be in conformance with the air pollution control standards and regulations of the State Department of Health.
- 4. The underground pipes, cables or ductlines known to exist by the Engineer from his search of records are indicated on the plans. The Contractor shall verify the location and depth of the facilities and exercise proper care in excavating in the area. Wherever connections of new utilities to existing utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavation for the new lines.



ME OR UNDER MY SUPERVISION.

Signature

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

2/2/84

2-7-84 DATE

2/0/84

DATE

GENERAL NOTES

LIKELIKE HIGHWAY IMPROVEMENTS

KAM IV ROAD TO VICINITY OF KALIHI STREET

F. A. PROJ. NO. F-063-1(17)

SHEET NO. / OF / SHEETS