

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL[#] NOTES
DRAINAGE NOTES

FARRINGTON HIGHWAY RESURFACING
Project No. 93A-01-86M
Project No. 93B-01-86M

Date: Dec. 1985

SHEET No. 1 OF 2 SHEETS

- ## DRAINAGE NOTES

1. Existing drainage system will be functional at all times during construction, Contractor to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow. Above work shall be incidental to the various contract items.
2. Demolishing and removing of the existing structure or a portion of the structure, shall not be paid for separately, but shall be considered incidental to the various contract items.
3. Contractor shall verify the locations of all culverts utilities in the field. Any damage incurred during construction shall be repaired at the expense of the Contractor.

UTILITY GENERAL NOTES

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93A-01-86M 93B-01-86M	1986	3	52

GAS NOTES

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 side-walk, 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 NOTES

1. The Contractor shall give advance notice to the Wastewater Management Division, Construction Section, fourteen (14) days prior to any paving operations by calling 523-4344.
2. The Contractor shall coordinate his work with the Contractor performing the following Wastewater Management Division project:

NANAKULI SEWERS SECTION I
IMPROVEMENT DISTRICT NO. 258
JOB NO. W19-84

WATER NOTES

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 1985, as amended, of the Hawaii Highways Division, Department of Transportation and the City and County of Honolulu Board of Water Supply's "Water System Standards", Volume I, dated 1985, and the "Approved Material List And Standard Details For Water System Construction", Volume 2, dated 1985, and all subsequent amendments and additions.
2. The Contractor shall notify the Board of Water Supply in writing one week prior to commencing work on the water system.
3. All plans approved by the Board of Water Supply are based solely on the adequacy of the water supply. All other features of the water system, such as lines, grades, fittings etc., and drainage and other features of improvements shall not be the responsibility of the Board of Water Supply.
4. Any adjustments to the existing water system including manholes, meter boxes, and meters 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.
5. The Contractor shall verify the location of waterlines in the field prior to installation of new guardrails. If there is a conflict, the new guardrails will be installed at the locations designated by the Engineer.
6. Contact BWS Manana Corporation Yard, Francis Among, at 455-1333 upon commencing construction.
7. The Contractor shall adjust all valve boxes and manhole frames and covers that are in the areas to be paved. Prior to paving operations, BWS will mark all water manholes and valve boxes involved with this project. The Contractor shall be responsible for referencing and adjusting all BWS appurtenances. Referencing of BWS facilities shall be incidental to the various contract items. Any additional work required of BWS to locate and reference BWS facilities, subsequent to paving operations, will be at the Contractor's expense. BWS will bill Contractor for said additional work.

8. 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 the damages to existing utilities.

ELECTRIC NOTES

1. 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/or 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 minimum of 72 hours in advance.
5. For pole bracing instructions, should field conditions and/or construction procedures require that poles be braced to facilitate construction, the Contractor is to contact Mr. Walter Okudara, HECO District Construction Superintendent at 455-7022 a minimum of 72 hours in advance.
6. Should it become necessary, any work required to relocate HECO facilities shall be done by HECO. The Contractor shall be responsible for all coordination.
7. The Contractor shall be liable for any damages to HECO's facilities.
8. The Contractor shall report any damages to HECO's facilities to the HECO Trouble Dispatcher at Phone No. 548-7920.

APPROVED:

R. Wright 3-12-86
CHIEF, PLANNING & ENGINEERING, B.W.S. DATE
G. Uyama 3/14/86
CHIEF, DIV. OF WASTEWATER MANAGEMENT DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
UTILITY GENERAL NOTES
FARRINGTON HWY. RESURFACING
Project No. 93A-01-86M
Project No. 93B-01-86M
Date: Dec, 1985
SHEET NO. 2 OF 2 SHEETS

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ORIGINAL PLAN	
NOTE BOOK	
NO.	