

HAWAIIAN ELECTRIC COMPANY NOTES

- HECO is to coordinate its work with the State's Contractor in a manner which does not impede construction.
- The existing facilities shown throughout these drawings are approximate only. The State's Contractor shall verify their actual locations.
- Adjustments to any new or existing HECO facilities shall be made as directed by HECO Engineers and approved by the State's Resident Engineer.
- All existing HECO Facilities shall remain in place until proposed permanent facilities are provided. Any cost for temporary relocations arising during construction for the State's Contractor's benefit, shall be borne by the State's Contractor.
- The State's Contractor shall be liable for any and all damages to HECO facilities which is caused by his operations. Damages will be corrected by HECO at State's Contractor's expense.
- HECO shall furnish and install KWH meter for the new XFMR and its Distribution Panel.
- The excavation of lighting poles holes, lighting pole anchor holes, trenches and installation are to be done by the State's Contractor.
- The State's Contractor shall provide existing and finished grade information at each pole and anchor location. Depth of poles and anchors will be taken from finished grades.
- The stakeout and installation of ducts and handholes are to be done by the State's Contractor.
- The location and depth of handholes, service and slice boxes and ductlines are to be verified and approved in the field by the State's Resident Engineer prior to construction or installation.
- All ducts and conduits to be installed in concrete jacket shall be inspected and approved by HECO's Inspection Division before placing concrete. Notify HECO's Inspection Division 72 hours minimum before placing concrete at 543-5668.
- The Contractor shall furnish and install the concrete pad for the new HECO transformers and service equipment per HECO's Standard at no additional cost to the State.

CONSTRUCTION NOTES FOR GAS FACILITIES

- The Gas Company gas pipelines in the project area are plastic coated and cathodically protected. The Contractor shall be extremely careful when working near these gas pipe lines.  
  
Since gas line locations on field maps are approximate, the Contractor after obtaining a written clearance shall call The Gas Company a minimum of 48 hours before starting excavation to arrange for field location of existing gas lines, the telephone no. is 594-5575 during business hours and 526-0066 after hours.
- Prior written clearance must be obtained from The Gas Company at least five (5) working days before starting excavation near gas lines.  
  
The Contractor shall excavate and backfill around gas pipelines in the presence of The Gas Company representative. All backfill within six inches of any gas pipeline shall be select cushion material approved by The Gas Company.
- For relocation of any gas pipeline the Contractor shall notify The Gas Company five (5) 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 The Gas Company and paid for by the Contractor.

- The Contractor shall notify The Gas Company immediately after damage has been caused to existing gas pipelines, their coatings or their cathodic protection devices. Repair work on this damage shall be done by The Gas Company and paid for by the Contractor.
- 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 by the Contractor and approved by The Gas Company.
- The Contractor shall work in an expeditious manner in order to keep the uncovered gas pipelines exposed for as short a period of time as possible.

SEWER NOTES

- All sewer construction shall be performed in accordance with the City's Standard Specifications, September 1986, the Department of Public Works Standard Details, September 1984, Current City Practices and Revised Ordinances of Honolulu, 1990 as amended, and the Design Standards of the Department of Wastewater Management Vol. 1, July 1993
- The Contractor shall notify the Construction Section Department of Wastewater Management at 527-5820 or 523-4345 to arrange for inspection services and submit four sets of approved construction plans seven days prior to commencement of sewer work. The Contractor shall pay for all inspections costs.
- The underground pipes, cables or ductlines known to exist by the Engineer from his research of records are indicated on the as-built plans. The Contractor shall verify the location and depth of the facilities and exercise proper care in excavating the area. The Contractor shall be responsible and shall pay for all damaged utilities.
- The Contractor shall be responsible for maintaining continuous sewer service to all affected areas during construction.
- The Contractor shall be responsible for any sewage spills caused during construction. The Contractor shall notify the State Department of Health and utilize appropriate sampling and analyzing procedures. The Contractor shall be responsible for all public notification and press releases.
- The Contractor shall maintain a minimum five (5) feet clear width between street lighting poles and sewer lines.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(66)	1998	6	61

WATER NOTES

- Unless otherwise specified, all material and construction of water sysytem facilities and appurtenances shall be in accordance with the City and County of Honolulu Board of Water Supply's "Water System Standards" Volume 1, dated 1985, the "Approved Material List and Standard Details for Water System Construction", Volume 2, dated 1985, The "Water System External Corrosion Control Standards", Volume 3 , dated 1991 , and all subsequent amendments and additions.
- 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, drainage, etc., and other features of improvements shall not be the responsibility of the Board of Water Supply.
- 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 pay for all damages to existing utilities. The Contractor shall not assume that where no utilities are shown, that none exist.
- The Contractor shall be responsible for the protection of all water lines during construction. The Contractor shall be especially careful when excavating behind water lines, tees, and bends wherever there is a possibility of water line movement due to the removal of the supporting earth beyond the existing reaction blocks. The Contractor shall take whatever measure necessary to protect the water lines, such as constructing special reaction blocks (with BWS approval) and/or modifying his construction method.
- Re-approval shall be required if this project is not undertaken within a period of two years.
- At the electrical/signal ductlines water crossings, adjust all electrical/signal ductline elevations to maintain 6" vertical clear separation from all waterlines (12" clear for all electrical/signal ductline structures larger than 16") at no cost to the Board of Water Supply.
- Maintain 3'-0" min. horizontal clear separation between all waterline systems and nearest electrical/signal ductlines paralleling the water system at no cost to the Board of Water Supply.
- The Contractor shall notify BWS Planning and Engineering Division, Construction Section, one week prior to commencing work on the water system. Phone No. 527-5205.
- The Contractor shall verify all existing service lateral locations whether shown or not shown on plans prior to commencing with any of the work and shall not assume that where no services are shown none exist.
- Prior to any excavating, the Contractor shall verify in the field the location of existing water mains and appurtenances.
- Meter numbers and service number are not shown on the plans because no work shall be done on the services.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
  
**UTILITY NOTES**  
  
**HIGHWAY LIGHTING**  
**SAFETY IMPROVEMENTS**  
**FEDERAL AID PROJ. NO. STP-0300(66)**  
  
Date: Apr., 1998  
  
SHEET No. 1 OF 1 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	2-3-98
642 gwen	TRACED BY	
skilledpdr	CHECKED BY	
	DESIGNED BY	
	APPROVED BY	