

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-92	1992	3	22

CONSTRUCTION NOTES:

1. KECO, HTCO & CATV overhead and underground facilities shown on the Plans are from field survey and record plans, are not guaranteed as shown. The Contractor shall exercise extreme caution whenever construction crosses or is in close proximity of underground lines and shall maintain adequate clearance when operating equipment within or under any overhead lines.
2. Should it become necessary to temporarily relocate any utilities to enable the Contractor to perform his work in a safe and expeditious manner in fulfilling his contract obligations, these temporary relocation(s) shall be coordinated with the respective utility company(ies) by the Contractor. All costs shall be borne by the Contractor.
3. Construction operation shall not place or deposit any fill material within the stream nor downgrade the stream tidal water quality, otherwise, the Contractor will be responsible in obtaining any and all required permits.

WATER NOTES

1. Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the "Water System Standards," Volume I and Volume II, 1985 as adopted by the Department of Water, County of Kauai, Board of Water Supply, City and County of Honolulu, Department of Water Supply, County of Maui and Department of Water Supply, County of Hawaii, and all subsequent amendments and additions for use in the design and construction of the Department's Water System Facilities.
2. The Contractor shall notify Department of Water, County of Kauai in writing one week prior to commencing work on the main.
3. Unless specified otherwise, connection to existing water main, cleaning and chlorination of new main shall be done by the Contractor with the Department of Water Inspector coordinating the work. Disinfection of the water line shall be done in conformance with "Standard Specifications for Water Works Construction."
4. The Contractor shall verify in the field the location of the existing water mains and appurtenances. The Contractor shall expose the existing water mains prior to trenching. Excavation around existing water mains shall be done by hand.
5. The Contractor shall whenever necessary, properly sheet and brace all excavations to render it secure and shall remove all such sheeting and bracing before completion of the backfill. For all water mains, the minimum cover requirement (from top of pipe to finish grade over pipe) is 3 feet.
6. Payment for cleaning all installed pipelines shall not be measured nor paid for directly but shall be considered incidental to the project.
7. Trench excavation, backfilling in lifts and repaving shall conform to the "Standard Specifications for Public Works Construction," dated September 1986.
8. The Contractor shall submit the name of its authorized Superintendent on the job.
9. The Contractor shall arrange a pre-construction conference at least 10 days before construction and shall notify the Department at least 3 working days prior to start of construction.
10. The Contractor shall notify the Department of Water, County of Kauai, at least 24 hours prior to any pipe laying, backfilling, testing or chlorination to insure inspectional services will be available.
11. All nuts, bolts and washers for use with flanged joints shall be hot-dipped galvanized.
12. In order to prevent unapproved materials from being ordered, the Contractor is invited to submit his material list description to the Department of Water for cross-check before ordering any material from the supplier.
13. Prior to the connection of any pipeline installed under this job to the existing main, the pipeline installed shall be thoroughly cleaned, flushed and chlorinated.
14. Cleaning shall be by use of "Pigs" introduced into the pipeline and run completely through. "Pigs" shall consist of a cylindrical piece of polyurethane foam with density range of 1.25 to 1.45 pounds per cubic foot with a diameter 2" larger than the pipe to be cleaned and 18" long.
15. The Contractor shall exercise extreme caution not to damage or break existing C.I. or A.C. Pipe water mains when excavation is over existing water main. All damages shall be repaired and paid for by the Contractor.
16. The existing fire hydrant(s) called out on the plans to be relocated shall be removed, cleaned, painted and reinstalled.
17. The Contractor shall submit to the Department of Water an itemized bid tab for the water facilities at the pre-construction conference.
18. If any work within the project limits conflicts with the existing water facilities, the Contractor shall notify Engineer and verify with the Department of Water of any changes that are necessary.
19. The Contractor shall provide a temporary by-pass for the 12-inch Water Line during the Phase I bridge construction; obtain prior approval and make all necessary arrangements with the Department of Water for such work, inform the Engineer of the temporary bypass work. Temporary bypass work shall not be measured for payment separately but shall be included in Proposal Item No. 624-9000.
- \*\*20. All materials (pipe, pipe lubricants, paints, sealants, form oil, concrete admixtures, etc.) in direct contact with potable water shall obtain National Sanitation Foundation (NSF) approvals. The Contractor shall submit these approvals to the Department of Water for review and approval prior to its application.

APPROVED:

*[Signature]*  
MANAGER & CHIEF ENGINEER, DEPARTMENT OF WATER  
COUNTY OF KAUAI

*[Signature]*  
DATE

THIS WORK WAS PREPARED BY ME OR  
UNDER MY SUPERVISION  
*[Signature]*  
SHINABUKURO, ENDO & YOSHIZAKI, INC.  
1126 12th Avenue  
Honolulu, Hawaii 96816

GENERAL NOTES

1. All construction work shall be done in accordance with these plans, all applicable sections of the Standard Specifications for Road and Bridge Construction dated 1985 as amended, of the State Highways Division, Dept. of Transportation and the project's Special Provisions, unless otherwise specified.
2. The Contractor shall provide, install and maintain all necessary signs, lights, flares, temporary concrete guardrails, barricades, markers, cones and other protective facilities and shall take all necessary precautions for the protection and for the convenience and safety of public traffic. All such protective facilities and precautions to be taken shall conform with the "Rules and Regulations Governing the Use of Traffic Control Devices at Work Sites on or Adjacent to Public Streets and Highways" adopted by the Highway Safety Coordinator and the U.S. Federal Highway Administration's "Manual on Uniform Traffic Control Devices for Streets and Highways, Part VI - Traffic Controls for Highway Construction and Maintenance Operations," dated 1978 & Revisions No. 4 dated March 1986.
3. Full compensation for all additional materials and labor, not specifically shown or called for which are necessary to complete the construction of the project, shall be considered incidental to the various contract items in the proposal and no additional compensation will be allowed therefor.
4. The underground pipes, cables or duct lines 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.
5. All lanes shall be open to traffic during the morning peak hours from 6:00 a.m. to 8:00 a.m. and during afternoon peak hours from 3:30 p.m. to 5:30 p.m. and during off-work hours.
6. All exposed areas shall be sodded or planted immediately after the grading work has been completed.
7. The Contractor shall remove all silt and debris resulting from his work and deposited in drainage facilities, roadways and other areas. The costs incurred for any necessary remedial action by the Engineer shall be payable by the Contractor.
8. The Contractor, at his own expense, shall keep the project area and surrounding area from dust nuisance. The work shall be in conformance with the Air Pollution Control Standards and Regulations of the State Dept. of Health.
9. The Contractor is reminded of the requirements of Subsection 107.13 Public Convenience and Safety, regarding opening lanes to traffic and the assessment of liquidated damages for non-compliance, as specified under Subsection 108.08 of the Special Provisions.
10. Whenever connections of new utilities to existing utilities are shown on the plans, the Contractor shall expose the existing utility lines at the proposed connections to verify their location and depth prior to excavation for the new lines.
11. Adjustments of manhole, valve box, street monument, frames & covers, etc., shall not be measured for payment but shall be considered incidental to various items of work in the proposal.
12. Removal and relocation of existing signs shall also include the removal of posts & foundations. All removed signs shall be the property of the State. Cost shall be incidental to other item of work in the proposal.
13. Grassing shall not be measured for payment separately but shall be incidental to other item of work in the Proposal.

0/20/92 \*\* Add. WATER NOTE #20 (CO. 1)  
DATE REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

NOTES

KUHIO HIGHWAY IMPROVEMENTS  
HAILEILIO ROAD TO UHELEKAWAWA BRIDGE  
PROJECT NO. 56A-01-92

SCALE: AS NOTED DATE: JAN. 1992

SHEET No. 1 OF 1 SHEETS