

GENERAL NOTES

1. The scope of work for this project consists of: excavating, installing culvert and underdrain systems, constructing grated drop inlets and headwalls, constructing earth swales, backfilling, connecting new culverts to existing systems, and relocating and installing non-potable water line.
2. The Contractor is reminded of the requirements of Subsection 108.01 - Subletting of Contract, which requires him to perform work amounting to not less than 50 percent of the contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.
3. The Contractor's attention is directed to the following Sections of the Special Provisions: Subsection 107.13 - Public Convenience and Safety; Subsection 107.21 - Contractor's Responsibility For Utility Property and Services; and Section 645 - Traffic Control.
4. The Contractor shall comply with the State of Hawaii's Occupational Safety and Health Law (DOSH).
5. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
6. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
7. Earth swale shall be graded to drain. This work shall be considered incidental to Contract Item No. 206.2020 - Structure Excavation for Drainage Systems.
8. The contractor shall provide for access to and from all existing side streets at all times.
9. Install Construction Signs with Two Posts along Kuhio Highway and Waimea Canyon Drive approximately 500 feet beyond the project limits. The 6 signs at each site are:  
3 ea. ROAD WORK AHEAD, CW20-1AD, 48"x48"  
3 ea. END ROAD WORK, CG20-2A, 48"x24"  
Payment will be made under Contract Item No. 621.7100 - Construction Signs.
10. The Contractor shall provide Kauai Electric Company (KECO) with a construction schedule to include hours of construction and a contact person that will be at the project site in case of an emergency. This contact person will notify the power-plant dispatch in the case of accidental contact with any of the electrical conductors.
11. Excavation near utility poles shall be at least 1'-0" away from the base of the pole. If the base of the pole is to be exposed, braces will be required to stabilize the pole.
12. Removing and disposing existing 8" waterline and 4" PVC waterline at Waimea Canyon Drive @ Sta. 5+12± o/s Rt. shall be considered incidental to Contract Item No. 624.1006 - Furnishing and Installing 8-Inch Ductile Iron Pipe (Class 52).
13. Any damaged pavement striping, marking and traffic signs shall be replaced by the Contractor at no cost to the State.
14. The Contractor may encounter solid rock formations when excavating at Waimea Canyon Drive @ Sta. 21+50± for the drainage structures. This work shall be considered incidental to Contract Item No. 206.2020 - Structure Excavation for Drainage Systems.

NOTES FOR CONSTRUCTION  
WITHIN COUNTY RIGHT-OF-WAY

1. All pavement shall be restored to it's original condition in accordance with County of Kauai, Hawaii Standard Specifications for Road and Bridge and Public Works Construction (1994) with 2" minimum A.C. and 8" Base Course.
2. The Contractor shall provide, install, maintain all necessary signs, lights, flares, 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 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 U.S. Federal Highway Administration Manual on Uniform Traffic Control Devices for Streets and Highways dated 1988 and its amendments.
3. 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 water mains, the minimum cover requirements (from top of pipe to finished grade over pipe) is three (3) feet.
4. a. A permit shall be obtained by the Contractor from the Department of Public Works before beginning work on any portion of a public street.  
b. Driveways shall be kept open unless owners of the abutting lots using these rights-of-ways are otherwise provided for satisfactorily.  
c. All work including repair of damaged pavement and shoulders shall be inspected and approved by the Department of Public Works. All unapproved work shall be considered unacceptable and shall be reworked and corrected as directed by the Department of Public Works, at the contractor's expense.  
d. Damaged shoulders shall be restored to a condition equal to or better than existing condition.  
e. Work on a public street area may be performed only between the hours of 8:00 A.M. to 3:30 P.M. Monday through Friday, except on holidays recognized by the County of Kauai, unless otherwise permitted by the Department of Public Works, County of Kauai.  
f. During non-working hours, all trenches shall be covered with a safe non-skid bridging material and all lanes shall be opened to traffic.  
g. No material and/or equipment shall be stockpiled or otherwise stored within County right-of-ways except at locations designated in writing and approved by the County Engineer.  
h. The Contractor shall conduct his operations so as to offer the least possible obstruction and inconvenience to the public and he shall have under construction no greater length or amount of work that he can prosecute properly with due regards to the rights of the public.  
i. All existing drainage flow conditions shall be maintained.

SEWER NOTES

1. Contractor to verify locations of all existing sewer facilities.
2. Contractor to protect all manhole covers, risers, etc. from damage and debris. Contractor to repair all damages and clean sewer lines of all debris at his own expense.
3. Contractor to provide a minimum horizontal separation of 3-feet and a vertical clearance of 1-foot between sewer lines and other drain, electrical, and telephone lines.

APPROVED:

County Engineer, County of Kauai  
(For work within the County Right-of-Way only)

3/21/01  
DATE

DRAINAGE NOTES

1. Existing drainage systems will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow. The cost shall be incidental to the various Contract Items.
2. The Contractor shall verify the locations of all existing culverts and utilities in the field. Any existing culverts and utilities damaged during construction shall be repaired or replaced by the Contractor at his own expense.
3. For added reinforcing around existing and new culverts, see Standard Plan H-04.
4. For Culvert Trench Restoration Detail, see Sheet No. H16.
5. Concrete shall be Class A unless otherwise noted.
6. Chamfer all exposed concrete edges 3/4".
7. Contractor to backfill eroded areas at Waimea Canyon Drive (WCD) @ Sta. 4+86± o/s Lt. and @ Sta. 21+41± o/s Rt. This work shall be paid for under Contract Item No. 203.0300 - Borrow Excavation.
8. Demolishing, removing, and disposing existing structure at WCD @ Sta. 4+23± o/s 32' Lt. shall be considered incidental to Contract Item No. 604.5100 - Type "I" Outlet Structure, 3.00 ft to 3.99 ft.
9. Demolishing, removing, and disposing existing structure at WCD @ Sta. 4+69± o/s 31' Lt. shall be considered incidental to Contract Item No. 604.5200 - Type "61614P" GDI, 2.00 ft. to 2.99 ft.
10. Demolishing, removing, and disposing existing structure at WCD @ Sta. 4+92± o/s 18' Lt. shall be considered incidental to Contract Item No. 604.5200 - Type "61614P" GDI, 2.00 ft. to 2.99 ft.
11. Demolishing, removing, and disposing existing structure at WCD @ Sta. 5+11± o/s 22' Rt. shall be considered incidental to Contract Item No. 604.5200 - Type "61614P" GDI, 2.00 ft. 2.99 ft.
12. Removing and reinstalling existing 4" Pressure Reducing Valve at WCD @ Sta. 5+36 o/s 29' Rt. shall be paid for under Contract Item No. 624.7001 - Removing and Reinstalling 4-Inch Pressure Reducing Valve.
13. Demolishing, removing, and disposing existing structure at WCD @ Sta. 21+49± o/s 15' Lt. shall be considered incidental to Contract Item No. 604.5500 - Type "A" SDMH, 3.00 ft. to 3.99 ft.
14. Demolishing, removing, and disposing existing structure at WCD @ Sta. 21+50± o/s 18' Rt. shall be considered incidental to Contract Item No. 604.5300 - Type "61614P" GDI, 3.00 ft. to 3.99 ft.
15. Excavation at WCD @ Sta. 21+52 o/s Lt. downstream of Type "2" Outlet Structure shall be paid for under Contract Item No. 206.2020 - Structure Excavation for Drainage Systems.
16. AC Swale at WCD @ Sta. 48+02± o/s 28' Lt. shall be considered incidental to Contract Item No. 604.5600 - Modified Type "A-9P" GDI, 1.00 ft. to 1.99 ft.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	550A-01-00	2001	5	22

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED	DRAWN BY	3/16/01
NOTED	TRACED BY	
NOTED	DESIGNED BY	
NOTED	CHECKED BY	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

NOTES

Waimea Canyon Drive & Kuhio Highway  
Miscellaneous Drainage Improvements  
Project No. 550A-01-00

Date: Jan., 2001

SHEET No. HI OF 17 SHEETS