

GENERAL NOTES

1. The scope of work for this project consists of constructing inlet and outlet structures, installing culvert systems and swales, and backfilling.
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 total 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 Devices.
4. 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.
5. 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.
6. The contractor shall provide for access to and from all existing side streets at all times.
7. All saw cutting work shall be considered incidental to the various Contract Items.
8. Install 4 each Construction Sign with Post along Kaumualii Highway approximately 500 feet beyond the project limits. The 4 signs are:
2 ea. ROAD WORK AHEAD, CW20-1AD, 48"x48"
2 ea. END ROAD WORK, CG20-2A, 48"x24"
Payment will be made under Contract Item No. 621.7100 - Construction Signs with Posts.
9. Remove 185 linear feet of existing guardrail from Sta. 9+04± o/s 24' Rt. to Sta. 10+88± o/s 26' Rt.
10. Removal and replacement of pavement markings and striping affected by the construction shall be considered incidental to the various contract items.

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. Demolishing and removing existing concrete and CRM headwalls, drainage structures shall not be paid for separately, but shall be incidental to the various Contract Items.
4. For Culvert Trench Restoration Detail, see Sheet No. H6.
5. Concrete shall be Class A unless otherwise noted.
6. Earth swales shall be graded to drain. This work shall be considered incidental to the various contract items.

clearing & grubbing (0.5 acres)

WATER NOTES

1. Unless otherwise specified, all materials and construction of water 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, including all subsequent ammendments and additions.
2. The contractor shall arrange a pre-construction conference at least 10 days before construction and shall notify the Department of Water at least 3 working days prior to the start of construction.
3. The contractor shall submit the name of its authorized superintendent on the job. The contractor shall also submit the names and telephone numbers of at least three (3) persons to contact in case of emergency during non-working hours.
4. The contractor shall verify in the field the location of the existing water mains and appurtenances. The contractor shall expose the existing water main prior to trenching. Excavation around any existing water main shall be done by hand.
5. Where a utility is found to be in conflict with the waterline, the contractor shall notify the engineer prior to making any adjustment.
6. Access to existing fire hydrants, valves and water meters shall not be hindered by the contractor at anytime.
7. 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.
8. There shall be no physical connection between a public or private potable water system and a non-potable water system, sewer, or appurtenance thereto which could permit the passage of any seaward or polluted water into the potable water supply.
9. Trench excavation, backfilling in lifts, and repaving shall conform to the Hawaii Standard Specifications for Road, Bridge, and Public Works Construction, 1994."
10. Provide minimum 6" clearance between existing water line and new drain line.

GTE HAWAIIAN TEL NOTES

1. Prior to excavation, the contactor shall contact GTE Hawaiian Tel to locate and identify underground fiber optic and copper cable facilities in the affected area.
2. The contractor shall closely coordinate all work with GTE Hawaiian Tel.
3. A GTE Hawaiian Tel inspector shall be present during the construction of the project. The contractor shall notify the GTE inspector at least 24 hours prior to excavation.
4. A minimum separation of 12" shall be maintained between GTE direct buried ducts and proposed culvert and laterals. The contractor shall expose the concrete jacket and slurry backfill of the direct buried fiber optic conduit at all crossings.
5. The Contractor shall be extremely careful when excavating in the vicinity of the existing GTE Hawaiian Telephone Co. fiber optic duct lines. Prior to commencing excavation work in the vicinity of the fiber optic cable, the Contractor shall contact Mr. Steve Rapozo (246-3208) of GTE Hawaiian Telephone Co. Any damages to the existing fiber optic cable facilities as a result of the Contractor's operation shall be repaired by the contractor at his own expense, as directed by GTE Hawaiian Telephone Co., and at no cost to the State.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50C-01-99	2000	3	10

ITEM NO.		203.	206.	503.	603.	603.	604.	604.	604.	604.	604.	609.	612.
UNIT USED		0210	0200	1010	0010	1020	5100	5300	5400	5500	5600	8616	0100
FROM (± STA.)	TO (± STA.)	C.Y.	C.Y.	EA.	C.Y.	L.F.	EA.	EA.	EA.	EA.	EA.	L.F.	C.Y.
8+50 o/s 28' Lt.			22		3	12	1						
8+58 o/s 18' Lt.			145		27	93				1			
8+65± o/s 24' Rt.	9+45± o/s 24' Rt.				6							80	
9+45± o/s 24' Rt.		53			6	23			1				
9+65 o/s 35' Rt.		35	30		15	56			1				
10+25 o/s 35' Rt.		150			15	60			1				
10+87± o/s 35' Rt.								1					5
11+38 o/s 35' Rt.		4		1	2	9					1		
CGO #1 Station 9+45	10+87	210											
CGO #3 Station 9+45	10+87		170										
TOTAL		452	367	1	74	253	1	1	3	1	1	80	5

LEGEND

- ∘jp Existing Joint Pole
∘pp Existing Power Pole
—w—12— Existing 12" Water Line
∘wmh Existing Water Manhole
∘wv Existing Water Valve Box
∘wm Existing Water Meter
∘fh Existing Fire Hydrant
---d---24--- Existing 24" Drain Line
42" Culvert New 42" Culvert
∘gdi Existing Grated Drop Inlet

APPROVED:

MANAGER & CHIEF ENGINEER, DEPARTMENT OF WATER

DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND LEGEND

KAUMUALII HWY. DRAINAGE IMPROVEMENTS

Vicinity of Hokua Road
Project No. 50C-01-99

Date: Sept. 1999