

GENERAL NOTES

1. The scope of work for this project consists of installing a new traffic signal system, highway lighting, pavement reconstruction, removing of existing pavement markers, curbing, pavement marking, striping and signing.
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. Section 645 - Traffic Control.
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. Locations of existing underground structures and utilities such as pipelines, conduits, cables, etc., manholes, monuments, and structures shown on plans are approximate only. It is not the intent of these plans to show the exact location of all underground utilities and structures. It is the responsibility of the Contractor to verify the locations of all existing utilities with the respective owners. Existing utilities damaged by the Contractor shall be repaired by the Contractor at his own cost.
6. Contractor shall provide for access to and from all existing side streets and driveways at all times.
7. Maintenance of traffic through the construction area shall be in accordance with Part VI, "Standards and Guidelines for Traffic Controls for Street and Highway Construction, Maintenance, Utility and Incident Management Operations", of the "Manual On Uniform Traffic Control Devices For Streets And Highways", Federal Highway Administration (1988 Edition), to include all Revisions and Errata Sheets to Part VI and as specified in the special provisions. The Contractor shall furnish and maintain adequate barricades, blinkers, construction signs, etc., for the safety of the motoring public.
8. The Contractor shall schedule his work around the annual Ironman Triathlon Race activities. All pavement and shoulder areas shall be restored to smooth riding condition, completely cleaned, and pavement striping installed 3 weeks prior to the date of the Ironman Triathlon Race. No construction work within the State Right-of-way shall be permitted during this period which interferes with the preparation and running of the race.
9. All saw cutting work shall be considered incidental to Roadway Excavation.
10. Existing drainage system will be functional at all times during construction. Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to accomplish maintenance of flow, the cost of which shall be considered incidental to the various contract items.
11. The Contractor shall adjust flush to finish grade all manhole, valve, pullbox, and handhole frames & covers, including those not shown on the plans, if there is a change in grade due to construction of the project. If the proposal does not show a contract item, the Engineer will consider them incidental to the various contract items.
12. All necessary permits for work within the jurisdiction of the County of Hawaii, Traffic Division shall be obtained by the Contractor at his own cost.
13. Dressing for new shoulder shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable material as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to the various contract items.

14. The Contractor shall maintain 2 lanes for thru traffic movement at all times during weekdays. Lane closures shall be allowed for weekend work and night work, subject to approval and notifying the Engineer 6 weeks prior to closures.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19A-01-98	2000	3	22

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY M. Takahashi	
REVISIONS	CHECKED BY Richard Akana	
QUANTITIES BY		
CHECKED BY		
IN		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES & LEGEND

QUEEN KAAHUMANU HIGHWAY
Installation of Traffic Signals
at Hina-Lani Street
Project No. 19A-01-98

Not to ScaleDate: Feb., 2000

SHEET No. 1 OF 2 SHEETS

ELECTRICAL NOTES:

- Hawaii Electric Light Co. shall assist the contractor in Power Source connection.
- The Contractor shall make all electrical connections to controller, provide breaker, ground and 2" PVC conduit, Schedule 80.
- Contractor shall provide HELCO one week advance notice for any work done by HELCO.
- A utility company standby man is required to be at the site at the time any non-utility company personnel will be breaking into or entering any facilities that contain energized utility company equipment or cables.
- The HELCO permit and underground service for the installation of the meter pedestal will not be paid for separately but shall be considered incidental to the Meter Socket and Breaker.

DEPARTMENT OF WATER SUPPLY NOTES:

- All work shall be done according to the Water System Standards, State of Hawaii, Volumes 1 and 2, dated 1985, as amended.
- The Contractor shall inform the D.W.S. Engineer 72 hours prior to the beginning of any waterline work and one week prior to any connection, chlorination, shut-off or relocation.
- All work and material furnished by the D.W.S. shall be paid for by the Contractor.
- All existing waterline, waterline appurtenances and other utility locations shown on the plans are obtained from latest reliable sources. The Contractor shall be responsible to verify the exact location of all utilities in the field and shall bear all costs for damages done unto them during the contract period.
- All hook-ups to existing waterlines shall be done by the Department of Water Supply. The Contractor shall provide all excavation, backfill, road repair, traffic control, etc.
- Where water shut-off of more than 3-hours becomes necessary, the Contractor, at his own cost, shall provide a temporary bypass line, size of which shall be determined by the D.W.S. Engineer. The D.W.S. Engineer, also reserves the right to require bypass lines, regardless of the water shut-off period, if it is deemed necessary.
- Minimum horizontal clearance between waterlines and other utilities shall be 8-feet for road right-of-ways of 50 feet or less, minimum vertical clearance between waterline and other utilities shall be 12-inches provided the other utility is concrete jacketed and 18-inches if no concrete jackets are used. In all applicable instances the waterlines shall be at a grade higher than other utilities. Minimum horizontal clearance between waterline and other utilities shall be 10-feet for road right-of-ways of more than 50-feet.
- All fittings (Class 250) and all gate valves (Class 200) shall be ductile iron, with mechanical joints unless otherwise specified. Butterfly valves shall be class 250 with epoxycoated interior unless otherwise specified.
- The waterline shall be tested at a minimum of 225 p.s.i. or one and a half times the static pressure at the low point, under D.W.S. supervision just prior to paving the roadways.
- The Contractor shall be responsible for the chlorination of the water system and shall bear all cost. The persons engaged to do the chlorination work must have the appropriate license to perform the work in the state of Hawaii.


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19A-01-98	2000	4	22

LEGEND

mon.	Existing Monument
o	Existing Light Pole
hehh	Existing Hawaiian Electric Handhole
hepb	Existing Hawaiian Electric Pullbox
-(ug)-	Existing Electric Line (underground)
tp	Existing Telephone Pole
-(ug)-	Existing Telephone Line (underground)
htmh	Existing Telephone Manhole
htth	Existing Telephone Handhole
htpb	Existing Telephone Pullbox
-t/catv-	Existing Cable Line
at&t	Existing AT&T Line
-w-24"-	Existing 24" Water Line
wmh	Existing Water Manhole
wv	Existing Water Valve Box
av	Existing Water Air Valve
fh	Existing Fire Hydrant
-d--24"--	Existing 24" Drain Line
admh	Existing Storm Drain Manhole
gdi	Existing Grated Drop Inlet
cb	Existing Catch Basin
smh	Existing Sewer Manhole
-s-8"-	Existing 8" Sewer Line
-g-2"-	Existing 2" Gas Line
gmh	Existing Gas Manhole
tspt	Existing Traffic Signal Pullbox
ts	Existing Traffic Signal Pole
-ts-	Existing Traffic Signal Conduits
p	Existing Sign With 1 Post
B	Existing Sign With 2 Post
■	New Sign With 1 Post
■	New Sign With 2 Post
XXXX	Reconstruction Area

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY M. Takafuji	
Id-ruby	DESIGNED BY Richard Akana	
N. Sakthigal	CHECKED BY	

APPROVED:


MGR., DEPARTMENT OF WATER SUPPLY (P.N.)
COUNTY OF HAWAII

5/23/00
DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
GENERAL NOTES & LEGEND
<u>QUEEN KAAHUMANU HIGHWAY</u> <u>Installation of Traffic Signals</u> <u>at Hina-Lani Street</u> <u>Project No. 19A-01-98</u> Date: Feb., 2000
SHEET No. 2 OF 2 SHEETS