

GENERAL NOTES

1. The scope of work for this project consists of installing a new traffic signal system, wheelchair ramps, sidewalks, 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 notify the Oahu Transit Services Inc. (OTS), Ed Sniffen, at 848-4571 or Lowell Tom at 848-4578 two weeks prior to beginning any work, informing them of location, scope of work, proposed closure of any street or traffic lanes, and the need to relocate any bus stop.
9. Smooth riding connections shall be constructed at all limits of construction as shown on the plans and/or as directed by the Engineer.
10. The exact limits of pavement lengthening areas shall be determined in the field by the Engineer.
11. All saw cutting work shall be considered incidental to Roadway Excavation.
12. 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.
13. Earth swale shall be graded to drain. Earth swale shall not be paid for separately, but shall be considered incidental to the various contract items.
14. 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 item.

15. All necessary permits for work within the jurisdiction of the City and County of Honolulu shall be obtained by the Contractor at his own cost.
16. Dressing of shoulder, sidewalk and bus turnout 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.

HAWAIIAN TELEPHONE GENERAL NOTES

1. The location of GTE Hawaiian Telephone Company's existing facilities are approximate only. The Contractor shall exercise extreme caution and shall maintain proper clearances whenever construction crosses or is in close proximity of GTE Hawaiian Telephone Company facilities. The Contractor shall verify their locations and shall be liable for any damages to GTE Hawaiian Telephone Company facilities. Any damages shall be reported immediately to GTE Hawaiian Telephone Company's Repair Section at *611 (24 hours) or the Excavation Permit Section at 483-8081 (normal working hours, Monday through Friday, except holidays).
2. For underground cable locating and marking, five working days advance notice is required. Three working days advance notice is required for any inspection by a designated representative.
3. The Contractor shall take necessary precaution not to damage any existing cables or conduits. Any work involving existing GTE Hawaiian Telephone Company cables or conduits, shall be done in the presence of a GTE Hawaiian Tel inspector or designated representative.
4. The Contractor shall obtain an excavation permit and toning request from GTE Hawaiian Telephone Company's Excavation Permit Section, located at 3239 Ualena Street, 3rd Floor, two weeks prior to start of construction. Hours of business is 7:00 a.m. to 10:30 a.m. and 11:30 a.m. to 3:00 p.m., Monday through Friday, except holidays.
5. The Contractor shall notify GTE Hawaiian Telephone Company's inspector or designated representative 72 hours prior to excavation, bracing, or backfilling of GTE Hawaiian Telephone Company's structures or facilities.
6. When excavation is adjacent to or beneath GTE Hawaiian Telephone Company's existing structures or facilities, the Contractor shall:
- a. Sheet and/or brace the excavation to prevent slides, cave-ins, or settlements to ensure no movement to GTE Hawaiian Telephone Company's structures or facilities.
- b. Protect existing structures and/or facilities with beams, struts, or underpinning while excavating beneath them to ensure no movement to GTE Hawaiian Telephone Company's structures or facilities.

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CONSTRUCTION NOTES FOR GAS FACILITIES

1. BHP Gas Company gas pipelines in the project area are plastic coated and cathodically protected. The Contractor shall be extremely careful when working near the gas pipeline.
2. Written clearance must be obtained from BHP Gas Company, at least five working days prior to starting excavation near any of BHP Gas Company pipelines. Since pipeline locations on field maps are approximate, the Contractor, after obtaining written clearance, shall call BHP Gas Company, a minimum of five working days before starting excavation to arrange for field location of existing gas lines. The telephone number is 594-5575 during business hours, and 526-0066 after hours.
3. The Contractor shall notify BHP Gas Company, Distribution Department (594-5556) 24 hours prior to excavating and backfilling any pipeline.
4. For relocation of any gas pipeline, the Contractor shall notify BHP Gas Company five working day before starting work. The Contractor shall provide the necessary excavation and backfill, obtain traffic permits, and restore pavement, sidewalk, and other facilities. Any relocation of gas facilities shall be done by BHP Gas Company and paid for by the Contractor.
5. The Contractor shall excavate and backfill around the pipeline in the presence of a representative of BHP Gas Company. All backfill within 6 inches of any gas pipeline shall be select cushion material approved by BHP Gas Company.
6. The Contractor shall notify BHP Gas Company immediately after any damage has been caused to the existing gas pipelines, their coatings or their cathodic protection devices. The number to call is 594-5567 or 526-0066, 24 hours a day. The Contractor shall be liable for any damage to BHP Gas Company facilities. Repair work on such damage shall be performed by BHP Gas Company and paid for by the Contractor.
7. Minimum vertical and horizontal clearance between gas pipeline and other pipelines, conduits, or other structures shall be 12 inches. Adequate support and protection for gas pipelines exposed in the trench shall be provided by the Contractor and approved by BHP Gas Company.
8. The Contractor shall work in an expeditious manner in order to keep uncovered gas line exposure to a minimum.

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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
GENERAL NOTES
MOKAPU SADDLE ROAD
Traffic Signals at Kaneohe Bay Drive
Fed. Aid Project No. STP-065-1(7)
Date: June, 1999
SHEET No. 1 OF 1 SHEETS

HECO NOTES

- The location of HECO's overhead and underground facilities shown on the plans are from existing records with varying degrees of accuracy and 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.
- The Contractor shall comply with the State of Hawaii's Occupational Safety and Health Law (DOSH).
- The Contractor shall obtain an excavation permit from HECO's Mapping and Records Division located at 820 Ward Avenue, 4th floor, two weeks prior to starting construction.
- For verification of underground lines or for assistance in supporting and protecting these lines, the Contractor shall call HECO's Underground Division at 543-7345 a minimum of 72 hours in advance.
- When trench excavation is adjacent to or beneath our existing structures or facilities, the Contractor is responsible for:
 - Sheeting and bracing the excavation to prevent slides, caveins, and settlements.
 - Protecting existing structures or facilities with beams, struts, or under-pinnings.
- For pole bracing instructions, the Contractor shall call the HECO District Superintendent at (Koolau/261-6085, Waiau/543-4223, Ward/543-7745) a minimum of 72 hours in advance.
- Any work required to relocate HECO facilities shall be done by HECO and the Contractor shall be responsible for all coordination, and for possible costs if applicable.
- Should it become necessary to temporarily relocate any of HECO facilities to enable the Contractor to perform his work in a safe and expeditious manner in fulfilling his contract obligations, these temporary relocations will be done by HECO, or by the Contractor under HECO's supervision, with all costs borne by the Contractor.
- Any unforeseen conflict that would result in the redesign or relocation (either temporary or permanent) of HECO's electrical facilities may be cause for lengthy delays. To avoid such delays, the Contractor must notify HECO of the conflict a minimum of 30 days prior to the start of construction.
- Any damage to HECO's facilities will be reported immediately to HECO's Trouble Dispatcher at 543-7874.
- All HECO overhead and underground facilities shall be protected at all times by the Contractor during construction. Costs for damages to HECO facilities shall be borne by the Contractor. This repair work shall be done by HECO, or by the Contractor under HECO's supervision.
- The Contractor shall indemnify, defend and hold harmless HECO from and against all losses, damages, claims and actions, all expenses incidental to such losses, damages, claims or action, based upon or arising out of damage to property or injuries to persons, or other tortious acts caused or contributed to by Contractor or anyone acting under its direction or control or on its behalf; provided Contractor's indemnity shall not be applicable to any liability upon the sole negligence of HECO.

BOARD OF WATER SUPPLY NOTES

- Unless otherwise specified, all materials and construction of water system 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 under construction within a period of two years.
- The Contractor shall notify BWS Planning and Engineering Division, Construction Section, one week prior to commencing work on the water system.
- 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.
- Any adjustments to the existing water system required during construction to meet requirements of BWS Standards, whether shown on the plans or not, shall be done by the Contractor at no cost the Board of Water Supply.
- At the electrical/signal ductline 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.
- Maintain 3'-0" min. horizontal clear separation between street light/traffic signal, standards (including any modular units) and the nearest water system. Contractor shall field verify for any conflicts at each street light/traffic signal standard location. Where conflicts occur, the contractor shall coordinate with the project engineer to revise the street light/traffic signal standard to provide the required clearances at no cost to the Board of Water Supply.
- The Contractor shall have existing water mains toned before construction of work in vicinity of water mains, call the investigation section at 527-5296 for toning services. Guardrail post locations are to be kept to a minimum clear distance of 18 inches to any 2-1/2 inch water lines and meter boxes. No post driving will be allowed when post is to be installed closer than 3 feet from water main. Excavated areas shall be restored to their original conditions.

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LEGEND

⊙mon.	Existing Monument
⊙ep	Existing Light Pole
□heth	Existing Hawaiian Electric Handhole
□hepb	Existing Hawaiian Electric Pullbox
—elug—	Existing Electric Line (underground)
⊙ip	Existing Telephone Pole
—t(ug)—	Existing Telephone Line (underground)
⊙hnmh	Existing Telephone Manhole
□hthh	Existing Telephone Handhole
□htpb	Existing Telephone Pullbox
—t/catr—	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
⊙dmh	Existing Storm Drain Manhole
□gdi	Existing Grated Drop Inlet
ctr=	Existing Catch Basin
⊙smh	Existing Sewer Manhole
—s—8"—	Existing Sewer Line
—g—2"—	Existing 2" Gas Line
⊙gmh	Existing Gas Manhole
□tspb	Existing Traffic Signal Pullbox
⊙ts	Existing Traffic Signal Pole
—ts—	Existing Traffic Signal Conduits
⊙	Existing Sign With 1 Post
⊙	Existing Sign With 2 Post
—JTS—	Existing Joint Trunking System Cable (Amry Signal Core)
⊙	New Sign With 1 Post
⊙	New Sign With 2 Post

APPROVED:

Michael Jaha 7/14/00
 CHIEF, PLANNING AND ENGINEERING DIVISION
 BOARD OF WATER SUPPLY, CITY AND COUNTY OF HONOLULU

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
GENERAL NOTES
AND LEGEND
MOKAPU SADDLE ROAD
Traffic Signals at Kaneohe Bay Drive
Fed. Aid Project No. STP-065-1(7)
 Date: June, 1999

SHEET No. 1 OF 1 SHEETS