

HECO NOTES:

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	92AB-01-06M	2006	6	74

1. **Location of HECO Facilities**  
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 verify in the field the locations of the facilities and shall exercise proper care in excavating and working in the area. Wherever connections of new utilities to existing utilities and utility crossings are shown, the Contractor shall expose the existing lines at the proposed connections and crossings to verify the depths prior to excavation for the new lines. The Contractor shall be responsible for any damages to HECO'S facilities whether shown or not shown on the plans.
2. **Compliance with Hawaii Occupational Safety and Health Laws**  
The Contractor shall comply with the State of Hawaii's Occupational Safety and Health laws and regulations, including without limitation, those related to working on or near exposed or energized electrical lines and equipment.
3. **Excavation Permit**  
The Contractor shall comply with the State of Hawaii's Occupational Safety and Health laws and regulations, including without limitation, those related to working on or near exposed or energized electrical lines and equipment.
4. **Caution!!! Electrical Hazard!!!**  
Existing HECO overhead and underground lines are energized and will remain energized during construction unless prior special arrangements have been made with HECO. Only HECO personnel are to handle these energized lines and erect temporary guards to protect these lines from damage. The Contractor shall work cautiously at all times to avoid accidents and damage to existing HECO facilities, which can result in electrocution.
5. **Overhead Lines**  
State law requires that a worker and the longest object he or she may contact cannot come closer than a minimum radial clearance of 10 feet when working close to or under any overhead lines rated 50kV and below. For each additional 1kV above 50kV, an additional 0.4 inch shall be added to the 10-foot clearance requirement. The preceding information on line clearance requirements is provided as a convenience, and it is the Contractor's responsibility to be informed of and comply with any revisions or amendments to the law.
- Should the Contractor anticipate that his work will result in the need to encroach within the minimum required clearance at any time, the Contractor shall notify HECO at least four (4) weeks prior to the planned encroachment so that, if feasible, the necessary protections (e.g. relocate, de-energize, or blanket HECO lines) can be put in place. HECO's cost of safeguarding its lines will be charged to the Contractor.
- Contact HECO's Customer Installations Department at 543-7846 for assistance in identifying and safeguarding overhead power lines.
- Refer to Section X of HECO's Electric Service Installation Manual for additional guidelines when working around HECO's facilities. A copy may be obtained from HECO's Customer Installations Department.
6. **Pole Bracing**  
A minimum clearance of 10 feet must be maintained when excavating around utility poles and/or their anchor system to prevent weakening or pole support failure. Should work require excavating within 10 feet of a pole and/or its anchor system, the Contractor shall protect, support, secure, and take all other precautions to prevent damage to or leaning of these poles. The Contractor is responsible for all associated costs to brace, repair, or straighten poles. All means of structural support for the pole proposed by the Contractor shall first be reviewed by HECO before implementation. For pole bracing instructions, the Contractor shall call the HECO Construction and Maintenance Dept., Customer & System Superintendent at 543-4223 a minimum of two (2) weeks in advance.
7. **Underground Lines**  
The Contractor shall exercise extreme caution whenever construction crosses or is in close proximity of underground lines. HECO's existing electrical cables are energized and will remain energized during construction. Only HECO personnel are to break into existing HECO facilities, handle these cables, and

erect temporary guards to protect these cables from damage. The cost of HECO's assistance in providing proper support and protection of its underground lines will be charged to the Contractor. Special precautions are required when excavating near HECO's 138kV underground lines (See HECO Instructions to Consultants/Contractor's on "Excavation near HECO's Underground 138kV Lines" for detailed requirements).

For verification of underground lines, the Contractor shall call HECO's underground division at 543-7049 a minimum of 72 hours in advance.

For assistance in providing proper support and protection of these lines, the Contractor shall call HECO's Construction & Maintenance Dept., Customer & System Superintendent, at 543-4223, a minimum of two (2) weeks in advance.

8. **Stakeout**  
The Contractor shall arrange for toneouts of all underground facilities and shall stakeout all proposed HECO facilities within the projects area so as to not conflict with any utility (existing or proposed) and any proposed construction or improvement work for verification by HECO before proceeding with HECO work.
9. **Excavations**  
When trench excavation is adjacent to or beneath HECO's existing structures or facilities, the Contractor is responsible for:
- a) Sheeting and bracing the excavation and stabilizing the existing ground to render it safe and secure and to prevent possible slides, cave-ins, and settlement.
  - b) Properly supporting existing structures or facilities with beams, struts, or under-pinnings to fully protect it from damage.
  - c) Backfilling with proper backfill material including special thermal backfill where existing (refer to Engineering Department for thermal backfill specifications).
10. **Relocation of HECO Facilities**  
Any work required to relocate or modify HECO facilities shall be done by HECO, or by the Contractor under HECO's supervision. The Contractor shall be responsible for all coordination, and shall provide necessary support for HECO's work, which may include, but not be limited to, excavation and backfill, permits and traffic control, barricading, and restoration of pavement, sidewalks, and other facilities.
- All costs associated with any relocation or modification (either temporary or permanent) for the convenience of the Contractor, or to enable the Contractor to perform his work in a safe and expeditious manner in fulfilling his contract obligations shall be borne by the Contractor.
11. **Conflicts**  
Any redesign or relocation of HECO's facilities not shown on the plans may be cause for lengthy delays. The Contractor acknowledges that HECO is not responsible for any delay or damage that may arise as a result of any conflicts discovered or identified with respect to the location or construction of HECO's electrical facilities in the field, regardless of whether the Contractor has met the requested minimum advance notices. In order to minimize any delay or impact arising from such conflicts, HECO should be notified immediately upon discovery or identification of such conflict.
12. **Damage to HECO facilities**  
The Contractor shall be responsible for the protection of all HECO surface and subsurface utilities and shall be responsible for any damages to HECO's facilities as a result of his operations. The Contractor shall immediately report such damages to HECO's trouble dispatcher at 548-7961. Repair work shall be done by HECO or by the Contractor under HECO's supervision. Costs for damages to HECO's facilities shall be borne by the Contractor.
- In case of damage or suspected damage to HECO's fuel pipeline, the Contractor shall immediately notify HECO's Honolulu Power Plant shift supervisor at 533-2102 (A 24 hour number) so HECO personnel can secure the damaged section and report any oil spills to the proper authorities. All costs associated with the damage, repair, and oil spill cleanup shall be borne by the Contractor.

13. **HECO Stand-By Personnel**  
The Contractor may request HECO to provide an inspector to stand-by during construction near HECO's facilities. The cost of such inspection will be charged to the Contractor.

The Contractor shall call the HECO Construction and Maintenance Dept., Customer & System Superintendent at 543-4223 a minimum of 5 working days in advance to arrange for HECO stand-by personnel.

14. **Clearances**  
The following clearances shall be maintained between HECO's ductline and all adjacent structures (charted and uncharted) in the trench:

STRUCTURE TYPE	MINIMUM CLEARANCE (INCHES)
Water Lines, Parallel	36(A)
Water Lines, Crossing	12(B)
Sewer Lines, Parallel	36(C)
Sewer Lines, Crossing	24(D)
Drain Lines, Parallel	12
Drain Lines, Crossing	6(E)
Electrical and Gas Lines, Parallel	12
Electrical and Gas Lines, Crossing	12
Telephone Lines, Parallel	6(E)
Telephone Lines, Crossing	6(E)
Chevron Oil Lines, Parallel	36
Chevron Oil Lines, Crossing	48 Below Oil Line (F)

- A. The minimum horizontal clearances to water lines parallel to electrical ductlines must be increased to 60 inches if the water line is greater than 16 inches in diameter.
- B. The minimum vertical clearances to water lines crossing electrical ductlines can be reduced to 6 inches if the electrical ductline structure is less than 16 inches in diameter, is concrete encased, and is below the water line.
- C. A minimum horizontal clearance of 36 inches is required between new handholes and existing sewer laterals.
- D. The minimum vertical clearances to sewer pipes crossing electrical ductlines can be reduced to 12 inches if the sewer pipe is jacketed in concrete.
- E. The minimum clearances shall be increased to 12 inches if the electrical ductline is direct buried.
- F. The minimum vertical clearances to oil lines crossing electrical ductlines can be reduced to 24 inches below oil lines if the crossings are encased in 6 inches of concrete.
- G. The Contractor shall notify the Construction Manager & HECO of any heat sources (power cable duct bank, steamline, etc.) encountered that are not properly identified on the drawing.

The following clearance shall be maintained between HECO's fuel oil pipelines and all adjacent structures : 24-inches, parallel or crossing. The minimum clearance can be reduced to 12-inches (parallel and below only) if the structure is jacketed in concrete.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**UTILITY NOTES**  
**NIMITZ HIGHWAY AND**  
**ALA MOANA BOULEVARD RESURFACING**  
**Fort Street to Piikoi Street**  
**Project No. 92AB-01-06M**

Date: April 2006

SHEET No. 1 OF 5 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	92AB-01-06M	2006	7	74

HECO NOTES: (Continued)

15. Indemnity

The Contractor shall indemnify, defend and hold harmless HECO from and against all losses, damages, claims, and actions, including but not limited to reasonable attorney's fees and costs based upon or arising out of damage to property or injuries to persons, or other tortuous 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 based upon the sole negligence of HECO.

16. Authority

All construction, restoration work, and inspection shall be subject to whichever governmental agency has authority over the work.

17. Specifications

All construction of HECO's underground facilities shall be constructed in accordance with the latest revisions of HECO Specifications CS 7001, CS7003, CS7202, CS9301, and CS9401 and applicable HECO Standards.

18. Construction

The Contractor shall furnish all labor, materials, equipment, and services to properly perform and fully complete all work shown on the contract, drawings, and specifications. All materials shall be new and manufactured in the United States of America. All manhole, handhole, and ductline installations shall be inspected and approved by HECO prior to excavation and prior to placing concrete. The Contractor shall notify HECO's Inspection Division at 543-4356 at least 48 hours prior to placing concrete.

The Contractor shall coordinate work to break into HECO's existing electrical facilities with HECO's Underground Division at 543-7871 at least 10 working days in advance.

19. Ductlines

All ductline installations shall be PVC Schedule 40 encased in concrete, unless otherwise noted. All completed ductlines shall be mandrel tested by the Contractor in the presence of HECO's inspector using HECO's standard practice. The Contractor shall install a 1/8" polyolefin pull line in all completed ductlines after mandrel testing is complete.

20. Joint Pole Removal

The last joint pole occupant off the poles shall remove the poles.

21. As-Built Plans

The Contractor shall provide HECO with two sets of as-built reproducible tracings showing the offsets, stationing, and vertical elevation of the duct line(s) constructed.

22. Excavation Near HECO's Underground Fuel Pipelines

HECO's fuel oil pipelines are of carbon steel construction with specialized corrosion protective coatings, insulation coverings, cathodic protection, and specific backfill material. Any excavation work which affects these components on HECO's fuel oil pipeline requires careful reconstruction to insure pipeline integrity, structural strength, and corrosion protection.

The following precautions must be taken when excavating near HECO's underground fuel pipelines:

- A. The Contractor shall call USA North at 1-800-227-2600 for field verification of HECO's underground fuel pipelines a minimum of two (2) working days prior to trenching.
- B. The Contractor is responsible for properly supporting and protecting the underground fuel pipes, coatings, cathodic protection, and unsulation at all times. When trench excavation is adjacent to or beneath HECO's existing underground fuel pipelines, the Contractor is responsible for :
- 1) Sheeting and bracing the excavation to prevent slides, cave-ins, and settlements.
- 2) Supporting and protecting existing structures or facilities with beams, struts, or underplinnings.
- C. A HECO stand-by inspector MUST be on-site anytime the excavation is near the underground fuel pipelines. The cost of such inspection will be charged to the Contractor.
- D. Once the Contractor reaches the pipelines backfill material, the Contractor shall use only hand tools to further excavate and remove the remaining backfill.
- E. The Contractor shall take great care when excavating the pipeline backfill and nearing the fuel oil pipelines to prevent damage to the insulation and protective coating on the pipelines. Any handling or work on these pipelines shall be by HECO personnel or by the Contractor under HECO's supervision. The cost of HECO's assistance in providing proper support, protection, and testing of its underground fuel oil pipelines will be charged to the Contractor. The Contractor shall exercise due care and precautions to avoid distributing any fuel pipelines, pipe supports, expansion joints and temporary guards and shall work cautiously at all times to avoid accidents.
- F. The Contractor shall be responsible for any damages to HECO's facilities and all costs associated with the damage, repair, and oil spill cleanup as a result of his operations. Repair work shall be done by HECO or by the Contractor under HECO's supervision.
- G. If the coating is damaged in any way, it is imperative that the HECO stand-by inspector on-site be notified as soon as possible such that the coating may be repaired before backfilling. Even a nick or pinhole puncture in the protective coating can jeopardize the integrity and and reliable operation of the underground fuel pipe system.
- H. The underground fuel pipelines may or may not be in use during construction. However, the pipelines contain fuel oil at all times. In the event that the pipelines, its coatings, cathodic protection, or insulation are damaged, the Honolulu Power Plant Shift Supervisor must be immediately notified so HECO personnel can, depending on the extent of the damage, secure the damaged section and report any oil spills to the proper authority.
- I. If any portion of the pipeline backfill is removed during excavation, the replacement backfill shall be "crusher run" material which is non-native to the surrounding soil and free of oils, salts, and other deleterious material. The backfill shall be compacted 6" lifts around the pipe to ensure the stability of the new backfill.
- J. Please contact the following individual at least 48 hours priop to any trenching and/or backfilling near the existing HECO underground fuel pipelines:  
-- Colin Higa (HECO Senior Shift Supervisor) -- Ph: 543-4540
- K. In case of pipeline damage or suspected damage, please immediately contact:  
-- Honolulu Power Plant Shift Supervisor at Ph: 533-2102 (this phone number is manned 24-hrs a day)

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

UTILITY NOTES

NIMITZ HIGHWAY AND  
ALA MOANA BOULEVARD RESURFACING  
Fort Street to Piikoi Street  
Project No. 92AB-01-06M

Date: April 2006

SHEET No. 2 OF 5 SHEETS

HAWAIIAN TELECOM (HTCO) NOTES:

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	92AB-01-06M	2006	8	74

- All applicable construction work shall be done in accordance with the "Verizon Hawaii Inc." Standard Specifications for Placing Underground Telephone Systems", dated March 1999, all subsequent amendments and additions, and all other pertinent standards for telephone construction. The Contractor shall familiarize his personnel by obtaining applicable specifications.
- The location of HTCO existing facilities are approximate only. The Contractor shall exercise extreme caution and shall maintain proper clearances whenever construction crosses or is in close proximity to HTCO facilities. The Contractor shall verify their locations and shall be liable for any damages to HTCO facilities. Any damages shall be report immediately to HTCO's Repair Section at #611 (24 hours) or to the Excavation Permit Section at 840-1444 during normal work day hours, Monday through Friday, except holidays.
- 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.
- The Contractor shall take necessary precautions not to damage any existing cables or ducts. Any work involving existing HTCO's cables or ducts shall be done in the presence of a HTCO Inspector or designated representative.
- The Contractor shall obtain an excavation permit and toning request from HTCO Excavation Permit Section, located at 3239 Ualena Street third floor, two weeks prior to the start of construction. Hours of business are 7:00 a.m. to 10:45 a.m. and 11:30 a.m. to 2:45 p.m., Monday through Friday, except holidays.
- The Contractor shall notify HTCO Inspector or designated representative 72 hours prior to excavation, bracing or backfilling of HTCO structures or facilities.
- When excavation is adjacent to or beneath HTCO existing structures or facilities, the Contractor shall :
  - Sheet and/or brace the excavation to prevent slides, cave-ins or settlements to ensure no movement to HTCO structures or facilities.
  - Protect existing structures and/or facilities with beams, struts or underpinning while excavating beneath them to ensure no movement to HTCO structures or facilities.
- Should it become necessary to relocate any HTCO facilities, the work shall be done by HTCO. The Contractor shall be responsible for all coordination and costs associated with the relocation.
- When connecting to manhole walls, all existing reinforcing bars shall be left intact. Duct shall be adjusted in the field in order to clear reinforcing.
- All construction must be inspected and approved by HTCO prior to the installation of any of its facilities and the energizing of its systems. HTCO will commence installation only after the construction has been approved and no sooner than thirty working days thereafter.
- The Contractor shall pump all manholes dry during final inspection.

OCEANIC CABLE NOTES:

- The locations of Oceanic Cable existing facilities are approximate only. The Contractor shall exercise extreme caution and shall maintain proper clearances whenever construction crosses or is in close proximity to Oceanic Cable facilities. The Contractor shall verify their locations and shall be liable for any damages to Oceanic Cable facilities. Any damages shall be reported immediately to Oceanic Cable Repair Dispatch Department at 625-8437 or 625-8666.
- The Contractor shall obtain an excavation permit clearance from Oceanic Cable Engineering Section located at 200 Akamainui Street, Mililani Technology Park. (Phone: 625-8443)
- Prior to the excavation of the ductline, the Contractor shall request Oceanic Cable to locate existing ductlines wherever required. For any field assistance or verification of Oceanic Cable facilities, the Contractor shall call the Technical Operations Center at 625-8378 a minimum of five (5) working days in advance.
- The Contractor shall notify The Oceanic's Cable Inspector (phone: 625-8458) a minimum of two (2) working days prior to the start of work on Oceanic Cable's infrastructure, pouring of concrete or backfilling.
- The Contractor shall take necessary precautions not to damage existing cables, ducts or facilities. Any work involving existing cables, ducts or penetrations into any structure that contain Oceanic Cable facilities shall be done in the presence of the Oceanic Cable Inspector or its representative.
- Any work required to relocate existing Oceanic Cable facilities shall be done by Oceanic Cable and the Constructor shall be responsible for all coordination requirements and associated applicable costs.

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Samuel Odeh	CHECKED BY	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

UTILITY NOTES

NIMITZ HIGHWAY AND  
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SHEET No. 3 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	92AB-01-06M	2006	9	74

BOARD OF WATER SUPPLY NOTES:

1. 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", dated 2002, the "WATER SYSTEM EXTERNAL CORROSION CONTROL STANDARDS", Volume 3, dated 1991, and all subsequent amendments and additions.
2. The Contractor shall notify the Board of Water Supply in writing one week prior to commencing work on the water system.
3. 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, etc., and drainage and other features of improvements shall not be the responsibility of the Board of Water Supply.
4. The Contractor shall be responsible for the protection of all water lines during construction. The Contractor shall be especially careful when excavating behind water line tees and bends wherever there is a possibility of water line movement due to 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 their construction methods.
5. 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 and shall pay for all damages to existing utilities. The Contractor shall not assume that where no utilities are shown, that none exist.
6. Reapproval shall be required if this project is not under construction within a period of two years.
7. The Contractor shall verify all existing service lateral locations, whether or not shown on the plans, prior to commencing with any of the work and shall not assume that, where no services are shown, none exists.
8. Prior to any excavation, the Contractor shall verify in the field the location of existing water mains and appurtenances. The Contractor shall have existing mains toned before construction of work in the vicinity of water mains, call the Investigation Section at 527-5296 for toning services. The Contractor shall pay for all toning services.
9. Maintain 3'-0" minimum cover for all existing waterlines (18" minimum for service laterals) from new finish grade. The Contractor shall probe the waterline and service laterals and submit the probing data to BWS Construction Section. Any adjustments to the existing water system to meet the minimum cover and the requirements of the BWS standards, whether shown on plans or not, shall be done by the Contractor at no cost to BWS and the State.
10. The Contractor shall adjust all manhole frames/valve boxes within the resurfaced area prior to resurfacing. The Contractor shall be responsible for "referencing" these manholes/valve boxes to facilitate the adjustments.
11. Contractor shall cut and plug all existing unused laterals at the main whether or not shown on the plans. Meter and valve boxes to be or already abandoned shall be demolished or removed and properly disposed of. The damaged area shall be repaired to an equal or better condition than the immediate area. All work shall be done at the expense of the Contractor and at no cost to BWS and the State.
12. Board of Water Supply approval of these plans does not constitute a water commitment. Availability of water will be determined when building permit is presented to the Department. Water commitment will depend upon the status of the water system at that time. Should water service be made available, the water commitment will be effective when the project receives an approved building permit from the building department. All water commitments will be canceled in the event the building permit is canceled.

THE GAS COMPANY NOTES:

1. The Gas Company gas pipelines in the project area are plastic coated and cathodically protected. The Contractor shall be extremely careful when working near these gas pipelines.
2. Written clearances must be obtained from The Gas Company, Maps and Records department, 515 Kamakee Street, at least five (5) working days prior to starting excavation near these gas pipelines.
3. Since gas line locations on field maps are approximate, the Contractor, after obtaining written clearance, shall call USA North a minimum of two (2) working days before starting excavation to arrange for field location of the existing gas pipelines. The telephone number is 1-800-227-2600.
4. The Contractor shall excavate and backfill around gas pipelines in the presence of a representative of The Gas Company. All backfill within six inches of any gas pipelines shall be select cushion material approved by The Gas Company.
5. For Relocation of any gas pipeline, The Contractor shall notify The Gas Company five (5) working days before starting work. The telephone number is 594-5574. The Contractor shall provide the necessary excavation and backfill, obtain traffic permits, and restore pavement, sidewalks, and other facilities. Any relocation of gas facilities shall be done by The Gas Company and paid for by The Gas Company.
6. The Contractor shall notify The Gas Company immediately after any damage has been caused to existing gas pipelines, coatings, or its cathodic protection devices. The telephone number is 535-5933, 24 hours a day. The Contractor shall be liable for any damage to The Gas Company facilities. Repair work on such damage shall be done by The Gas Company with payment for this work to be borne by the Contractor.
7. Minimum vertical and horizontal clearance between the gas pipeline and other pipelines, conduits, ductlines, or other facilities shall be 12 inches. Adequate support and protection for gas pipelines exposed in the trench shall be provided by the Contractor and approved by The Gas Company.
8. The Contractor shall work in an expeditious manner in order to keep the uncovered gas pipelines exposed for a short a period of time as possible.

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SHEET No. 4 OF 5 SHEETS

CONFINED SPACE - SEWER NOTES AND  
CONSTRUCTION NOTES FOR WORK INSIDE CITY R/W 

For entry by City Personnel, including Inspectors, into a permit required confined space as defined in 29 CFR part 1910.146 (B), the Contractor shall be responsible for providing:

1. All safety equipment required by the confined space regulations applicable to all parties other than the construction industry, to include, but not limited to, the following:
  - A. Full body harnesses for up to two personnel.
  - B. Lifeline and associated clips.
  - C. Ingress/egress and fall protection equipment.
  - D. Two-way radios (walkie-talkies) if out of line-of-sight.
  - E. Emergency (escape) respirator (10 minutes duration).
  - F. Cellular telephone to call for emergency assistance.
  - G. Continuous gas detector (calibrated) to measure oxygen, hydrogen sulfide, carbon monoxide and flammables (capable of monitoring at a distance at least 20-feet away).
  - H. Personal multi-gas detector to be carried by inspector.
2. Continuous forced air ventilation adequate to provide safe entry conditions.
3. One Attendant/Rescue Personnel topside (two, if conditions warrant it).

CONSTRUCTION NOTES FOR WORK INSIDE CITY R/W 

1. All applicable construction work shall be done in accordance with the Standard Specifications for Public Works Construction, September 1986 and Standard Details for Public Works Construction, September 1984, as amended, of the Department of Public Works, City and County of Honolulu and the Counties of Kauai, Maui, and Hawaii.
2. The underground pipes, cables or ductlines known to exist by the engineer from his search of records are indicated on the plans. The Contractor shall verify the locations and depths of the facilities and exercise proper care in excavating in the area. Wherever connections of new utilities to existing utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavation for the new lines.
3. No Contractor shall perform any construction operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow into existing City drainage systems, or adjoining properties, streets or natural watercourses. Should such violations occur, the Contractor may be cited and the Contractor shall immediately make all remedial actions necessary.
4. The Contractor shall be responsible for conformance with the applicable provisions of the water quality and water pollution control standards contained in Hawaii Administrative Rules, Title II, Chapter 54, "Water Quality Standards", and Title II, Chapter 55, "Water Pollution Control", as well as Chapter 14 of the Revised Ordinances of Honolulu, as amended. Best Management Practices shall be employed at all times during construction.
5. The Contractor shall notify the Civil Engineering Branch, Department of Planning and Permitting, at 523-4881 to arrange for inspectional services and submit four (4) sets of approved Construction Plans seven (7) days prior to commencement of construction work.
-  6. Pursuant to Chapter 6E, HRS, in the event any artifacts or human remains are uncovered during construction operations, the Contractor shall immediately suspend work and notify the Honolulu Police Department, the State Department of Land and Natural Resources - Historic Preservation Division (692-8015). In addition, for non-City projects, the Contractor shall inform the Civil Engineering Branch, Department of Planning and Permitting (523-4881) and for City projects, notify the responsible City agency. Contractor shall also follow the procedures under Special Provisions Section 211 - Archaeological Monitoring.
7. For Bench Mark, see sheet 18.

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SEWER NOTES:

1. All sewer construction shall be performed in accordance with the City's Standard Specifications, Sept. 1986, the Department of Public Works Standard Details, Sept. 1984, Current City Practices And Revised Ordinances of Honolulu, 1990, as Amended, and Design Standards of the Department of Wastewater Management Vol. 1, July 1993.
2. The underground pipes, cables, or ductlines known to exist by the Engineer from his research of records are indicated on the plans. The Contractor shall verify the location and depth of the facilities, including and affecting sewer lines, in the presence of the Wastewater Inspector and exercise proper care in excavating the area. The Contractor shall be responsible and shall pay for all damaged utilities.
3. The Contractor shall be responsible for the protection of all sewer lines and maintaining continuous sewer service to all affected areas during construction.
4. The Contractor shall be responsible for any sewage spills caused during construction. The Contractor shall notify the State Department of Health and utilize appropriate sampling and analyzing procedures. The Contractor shall be responsible for all public notifications and press releases.
5. Maintain 3'-0" min. horizontal clear separation between all sewer systems and nearest street lighting ductlines, pullboxes, and handholes paralleling the sewer system at no cost to the city.
6. Maintain 5'-0" horizontal clear separation between street lighting and traffic signal standards (including any modular units) and nearest sewer line system. The Contractor shall field verify for conflicts at each street lighting and traffic signal standard location. Where conflicts occur, the Contractor shall coordinate with the Project Engineer to revise the street lighting and traffic signal standard to provide the required clearances at no cost to the city.
7. At the electrical/signal ductline sewer crossings, adjust all electrical/signal ductline elevations to maintain 24' vertical clear separation from all sewer lines or provide reinforced concrete jackets on sewer lines at no cost to the city.
8. For sewer manhole (SMH) adjustments upward less than 3", see City Std. Detail S-25. For SMH adjustments upward greater than 3" or for any adjustments downward, reconstruct SMH top from below the cone section.
9. The Contractor shall adjust all manhole frames within the resurfaced area prior to resurfacing. The Contractor shall be responsible for "referencing" these manholes to facilitate the adjustments.
10. The Contractor shall notify the Inspection Section, Wastewater Branch, DDC, At 527-5855 or 523-4345 to arrange for inspection services. Submit 4 sets of approved construction plans. Call 7 days prior to commencement of sewer work. The contractor shall pay for all inspection costs.


Approved :


 Dennis M. Nukununu 9/25/06  
CHIEF, WASTEWATER BRANCH, DPP m Date

Approved :

Meloni Sabakura 9/6/06  
for CHIEF, CIVIL ENGINEERING BRANCH, DPP Date  
(For work within City R/W only)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	92AB-01-06M	2006	C.O.ADD.10	74

 5/26/06 Revised Sheet.

 7/24/06 Revised Sheet.

DATE	REVISION
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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>UTILITY NOTES AND CITY CONSTRUCTION NOTES</b> NIMITZ HIGHWAY AND ALA MOANA BOULEVARD RESURFACING Fort Street to Piikoi Street Project No. 92AB-01-06M Date: April 2006
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SHEET No. 5 OF 5 SHEETS

C.O. ADD. 10