WATER 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 2002, 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.
- 2. The Contractor shall be responsible for the protection of all water lines during construction. The Contractor shall be especially careful when excavating behind waterlines, 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 measures 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 (2) years.
- The Contractor shall notify BWS Maintenance Unit-Engineering, Construction Section in writing and submit four (4) sets of approved construction plans one week prior to commencing work on the water system. Phone No. 527-5205/527-5206.
- 5. The existence and location of underground utilities and structures as shown on the plans are from the latest available data but is not quaranteed as to the accuracy or the encountering of other obstacles during the course of the work. The Contractor shall be responsible and shall pay for all the damages of existing utilities.
- 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.
- Any adjustments to the existing water system required during construction to meet requirements of the Board of Water Supply's Standards, whether shown on the plans or not, shall be done by the Contractor at no cost to the Board. Maintain 3'-0" minimum cover for all existing water lines (18" min. for services laterals) from new finish grades.
- 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.
- The project shall pay the applicable installation charges for the meter which will be furnished by BWS and installed by the Contractor when the lateral is installed.
- 10. 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 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.

- 11. The project shall be subject to the Board of Water Supply's Cross-Connection Control requirements prior to issuance of the Building Permit.
- 12. The installation, chlorination and testing of the water main and facilities after the meter shall not be the responsibility of the Board of Water Supply.
- The backflow preventer device must be installed before meter is issued.

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 pipeline's shall be select cushion ma'terial 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 cathotic 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 expedious manner in order to keep the uncovered gas pipelines exposed for a short a period of time as possible.

92A-01-07M 2007 HAW.

FED. AID PROJ. NO.

FED. ROAD STATE

FISCAL SHEET TOTAL YEAR NO. SHEETS

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

UTILITY NOTES

NIMITZ HIGHWAY BEAUTIFICATION NUUANU STREAM BRIDGE TO BETHEL STREET

PROJECT NO. 97A-01-07M

SURVET DRAWN 1 TRACED 1 DESIGNED QUANT CHT

Date: March, 2007 SHEET No. 3 OF 17 SHEETS

HAWAIIAN TELECOM (HTCO) NOTES:

- 1. 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.
- 2. 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.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. The Contractor shall notify HTCO Inspector or designated representative 72 hours prior to excavation, bracing or backfilling of HTCO structures or facilities.
- 7. When excavation is adjacent to or beneath HTCO 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 HTCO structures or facilities.

 B. Protect existing structures and/or facilities with beams, struts or underpinning while excavating beneath them to ensure no movement to HTCO structures or facilities.
- 8. 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.
- 9. 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.
- 10. 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.
- 11. The Contractor shall pump all manholes dry during final inspection.

OCEANIC CABLE NOTES:

- 1. 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.
- 2. The Contractor shall obtain an excavation permit clearance from Oceanic Cable Engineering Section located at 200 Akamainui Street, Mililani Technology Park. (Phone: 625-8443)
- 3. 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.
- 4. 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 infrastruction, 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.
- 6. 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.

FED. ROAD DIST. NO. STATE FED. AID PROJ. NO. FISCAL SHEET NO. SHEETS

HAWAII HAW. 92A-01-07M 2007 4 17

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

<u>UTILITY NOTES</u>

NIMITZ HIGHWAY BEAUTIFICATION

NUUANU STREAM BRIDGE TO BETHEL STREET

PROJECT NO. 97A-01-07M

Date: March, 2007

SHEET No. 4 OF 17 SHEETS