# <u>GENERAL NOTES</u>

- 1. The scope of work for this project consist of permitting, de and constructing a shared-use pedestrian/bicycle path that include a new bridge over Kiikii Stream; hydrology/hydrauli scour analysis; drainage structures, necessary scour prote measures, retaining walls, rails, chain link fencing and gate lighting, pavement markings and signs, grading and landscap
- 2. The Contractor is reminded of the requirements of Subsect 105.16 - Subcontracts, which requires him to perform work amounting to not less than 30 percent of the total contract less deductible items. Non-compliance with this Subsection grounds for rejection of bid.
- 3. The Contractor's attention is directed to the following Section the Special Provisions: Subsection 104.09 - Maintenance of T Subsection 104.11 - Utilities and Services; Subsection 107.06 Contractor Duty Regarding Public Convenience; and the 2005 Hawaii Standard Specifications for Road and Bridge Consti-Section 645 - Work Zone Traffic Control.
- 4. The existence and location of underground utilities, manhole monuments and structures as shown on the plans are from latest available data, but the accuracy is not guaranteed. T encountering of other obstacles during the course of work a possible. The Contractor shall tone for the exact locations depths of all underground utilities, either shown on or omits from the plans, in areas where work, such as the placement sign posts, installation of guardrail, catch basins, traffic si widening, etc. may affect these properties. Toning shall be considered incidental to the various contract items and will paid for separately. The Contractor shall be held liable for damages incurred to the existing facilities and/or improven a result of his operations. All damaged portions shall be rep in accordance with the standards and specifications of the affected utility company at no cost to the State.
- 5. All existing utilities, whether or not shown on the plans, sh protected at all times by the Contractor during construction specified on the plans to be abandoned. The Contractor sha held liable for any damages incurred to the existing utilitie result of his operations. All damaged portions shall be repla accordance with the Standards and Specifications of the an utility company at no cost to the State.
- 6. The Contractor shall verify the presence of existing aerial underground utilities which may conflict with construction a and shall coordinate with the utility company for temporary relocations, as necessary. All costs associated with temporal relocations shall be borne by the Contractor.
- 7. The Contractor shall indemnify and be solely responsible for protection of adjacent properties, utilities and existing strucfrom damages due to construction. Repairing any damage sh at the Contractor's own expense, to the satisfaction of the Engineer.
- 3. Prior to resurfacing operations, the Contractor shall be response for locating, preserving and marking all utility and highway facilities that will require adjustments to the new finished pavement grade. Additionally, the Contractor shall submit to Engineer a list of all items, including water, drainage, sewe electrical, telephone, and cable utilities to be adjusted to the finished grade.

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| designing<br>at would<br>lic and<br>tection                | 9.  | The Contractor shall submit maintenance plans and schedules,<br>including road or lane closures, lane switches, and the placement<br>of temporary traffic control devices to the Engineer for acceptance<br>prior to Construction.   |
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| tes, path<br>caping.                                       | 10. | The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.  |
| ction<br>et cost   | 11. | The exact locations and limits of areas to be reconstructed and cold planed shall be determined in the field by the Engineer.  |
| n may be<br>tions of<br>Traffic;<br>5 -<br>05<br>struction | 12. | The Contractor shall notify the Department of Transportation<br>Services, Public Transit Division at ph. #768-8396 and the Oahu<br>Transit Services, Inc. Bus Operations (ph. #848-4578 or 852-6016)<br>and Paratransit Operations (ph. #454-5041 or 454-5020) of the<br>scope of work, location, proposed closure of any street, traffic lane,<br>sidewalk, or bus stop, and duration of project at least two (2)<br>weeks prior to starting construction operations. |
| oles,  | 13. | The Contractor shall obtain all necessary permits prior to start of work at his own cost.  |
| m the<br>The<br>c is<br>s and<br>ittod                     | 14. | At the end of each day's work, the Contractor shall remove all<br>equipment and other obstructions to permit free and safe passage<br>of public traffic.   |
| itted<br>nt of<br>signal,<br>Il not be                     | 15. | The Contractor shall remove and dispose of all existing raised<br>pavement markers and traffic tapes prior to the overlaying of<br>Asphalt Concrete. This work shall be considered incidental to the<br>various contract items and will not be paid for separately.  |
| or any<br>ements as<br>replaced<br>ne                      | 16. | All holes, depressions and wheel ruts shall be filled and compacted<br>with Hot Mix Asphalt Pavement, Mix No. V prior to resurfacing.<br>This work shall be considered incidental to various contract items.   |
| shall be<br>on unless<br>hall be                           | 17. | The existing drainage system shall be kept functional at all times<br>during construction. The Contractor shall furnish materials,<br>equipment, labor, tools and incidentals necessary to maintain flow.<br>This work shall be considered incidental to various contract items.   |
| ies as a<br>blaced in<br>affected<br>I and                 | 18. | Smooth riding connections shall be constructed at all limits of resurfacing including the beginning and end of project, connecting approaches, side streets, walkways and driveways as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to various contract items.  |
| activities<br>y<br>ary                                     | 19. | The Contractor shall clean and remove any accumulation of<br>aggregates along the roadside within 10 feet of the edge of<br>pavement. This work shall be considered incidental to various<br>contract items.   |
| for the<br>ructures<br>shall be                            | 20. | Tack coat shall be incidental to various Asphalt Concrete Pavement<br>items.   |
| esponsible<br>ay<br>d                                      | 21. | Dressing of shoulder shall consist of clearing, grubbing, grading,<br>reshaping and compacting the unpaved shoulders with suitable<br>material as shown on the plans and/or as directed by the<br>Engineer. This work shall be considered incidental to the various<br>contract items.   |
| o the<br>ver,<br>the new                                   | 22. | Removal and disposal of existing guardrail, end terminals, asphalt<br>concrete pavement, and any debris shall be considered incidental to<br>their respective bid items.   |

23. All saw cutting and safety edge work shall be considered incidental to various contract items.

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- 24. The Contractor shall provide for vehicular and pedestrian access to and from all existing side streets and driveways at all times.
- 25. Existing facilities and/or pavement to remain which has been damaged by the Contractor shall be restored to its original condition at no cost to the State.
- 26. The Contractor shall be held liable for any damages incurred to the existing landscaping as a result of his operations.
- 27. Contractor shall dispose or deliver any removed material at no cost to the State.
- 28. The Contractor shall provide and maintain for access to and from all existing driveways, sidewalks, ADA access routes complying with 2010 ADAAG Section 206.1, side streets, and cross streets at all times. This work shall be considered incidental to various contract items and will not be paid for separately.
- 29. After completion of resurfacing, the Contractor and the Engineer will test for and determine ponding areas (i.e. low spots within resurfaced area). It shall be the responsibility of the Contractor to correct and resurface and/or repair all such ponding areas. Corrective measures shall be approved by the Engineer.
- 30. The Contractor is to take special measures to reduce dust from cold planing operations including but not limited to use of water misters on cold planing equipment and vacuum sweepers. Use of power brooms to sweep road is not allowed if a dust nuisance is created.
- 31. The roadway vertical riding surface drop-off between adjacent surfaces shall not exceed 3-inches. This shall include differences in height between adjacent pavement surfaces, cold planed surfaces, bridge decks and new concrete slabs. If a vertical riding surface drop-off exists at the end of each day's work, the Contractor shall provide temporary transition tapers with maximum slopes of 48:1 for travel in the longitudinal direction and 6:1 for transverse movements.
- 32. The Contractor shall not perform any construction work during periods of heavy rainfall.
- 33. The Contractor shall use the Traffic Control setup included in the 2005 Hawaii Standard Specifications for Road and Bridge Construction Section 645, and/or develop a site specific Traffic Control Plan where warranted.
- 34. The Contractor shall coordinate with the Honolulu Police Department Special Duty Section to hire police officers for traffic control operations and transporting of project equipment to ensure minimal delay due to lane closures.

| STATE OF HAWAI'I<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION |
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| GENERAL NOTES   |
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| <u>WAHIAWA PEDESTRIAN BRIDGE</u><br>WHITMORF VILLAGF TO WAHIAWA       |
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# GENERAL NOTES CONT'D

- 35. Any Survey Monuments that are disturbed shall be restored under the supervision of a licensed land surveyor registered in the State of Hawaii at no cost to the State. All survey data shall be certified by the surveyor and submitted to the Engineer.
- 36. All work specified in the contract but not listed separately in the proposal schedule shall be considered incidental to the other various contract items and shall not be paid for separately.
- 37. Material and/or equipment shall be stockpiled or stored within the right-of-way and approved by the Engineer. If use of location is approved by the Engineer, the Contractor shall obtain a permit to use the property within the highway right-of-way from the State Highway's Right-of-Way Branch at ph. #692-7332.
- 38. The Contractor shall probe to verify the exact location of any underground utilities within the project limits prior to installing posts. The Contractor shall adjust the location of posts accordingly to account for the actual locations of underground utilities. Any adjustments to the contract or underground utilities shall be considered incidental to various items of work. The Contractor shall be held liable for any damages incurred to existing facilities and/or improvements as a result of his operations. All damaged portions shall be replaced in accordance with the standards and specifications of the affected utility company at the Contractor's expense.
- Hydro-mulch Seed newly graded areas with Bermuda Seeding.
- 40. For toning of US Army Cables, one of the following vendors shall be utilized to do the work:
  - A. Verizon Federal/AT¢T Contact: Doug Ellenberg (Douglas.Ellenberg@verizon.com) or Nichole Nakamichi (Nichole.L.Nakamichi@verizon.com) B. Bering Sea (BSeT)
  - Contact: Shelton Choy (Shelton.Choy@beringseagroup.com)

Cables shall be toned prior to the start of the project.

## PAVING AROUND MANHOLES

- The Contractor shall first lower manholes more than cold planing thickness indicated on typical sections prior to cold planing. The work shall be considered incidental to the various paving contract items. Upon final paving, the manhole shall be raised and paid under the various contract items.
- The Contractor shall place hot asphalt concrete around manholes and compact properly with a vibrating plate compactor.
- If a plate compactor is not used, the Contractor shall use a pneumatic roller to roll the area around the manhole which is not rolled by the steel roller.
- The Contractor shall fog seal or brush emulsion seal on the 4. material placed as backfill on the area around the manhole that was not compacted by the roller. Black sand shall be used to blot out the area if the fog is too heavy.

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## HAWAII ONE CALL CENTER

Before conducting any excavation in the public right of way or on private property, the Contractor shall call the Hawaii One Call Center at least five (5) working days before beginning excavation operations. Be sure to give them the address and location of the nearest cross street(s) near the planned excavation site.

Call 811 toll-free 24 hours a day. For more information, go to www.callbeforeyoudig.org

The Hawaii One Call Center will contact all utility companies to 2. tone, mark, or identify the location of their underground utilities for free. Mark the area where you plan to excavate in White and label all of the other utilities as listed below.

| RED      | Electric power lines, cables, or conduits, and lighting           |
|----------|---|
| YELLOW   | cables.<br>Gas, oil steam, petroleum or other hazardous liquid or |
| T L LLOW | gaseous materials.  |
| ORANGE   | Communications, cable TV, alarm or signal lines, cables,          |
|          | or conduits.  |
| BLUE     | Water, irrigation, and slurry lines.                              |
| GREEN    | Sewers, storm sewer facilities or other drain lines.              |
| WHITE    | Proposed excavation.  |
| PINK     | Temporary survey markings.  |
| PURPLE   | Reclaimed water, irrigation and slurry lines.                     |

# HAWAIIAN TELCOM UTILITY ADJUSTMENT NOTES

Adjust existing manholes to the required elevations to match final roadway surface. All applicable construction work shall be in accordance with the "Hawaiian Telcom Standard Specifications for Placing Telephone Systems" dated January 2007, all subsequent amendments and additions, and all other pertinent standards for telecommunications construction. The Contractor shall familiarize his personnel by obtaining the applicable specifications.

## DIVISION OF FORESTRY AND WILDLIFE NOTES

- To avoid impacts to the Hawaiian hoary bat, no barbed wire shall be used, and woody plants greater than 15 feet tall shall not be disturbed, removed or trimmed during the bat birthing and pup rearing season (June 1 through September 15).
- If nighttime lighting is required, any lights used shall be fully 2. shielded to minimize impacts to native seabirds.
- Soil or plant material shall not be moved from the project site to be used in other locations on the island due to the possible presence of pathogens.

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#### LEGEND

*──← Railing* 

- ----- Proposed Property Line

| STATE OF HAWAI'I<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION                           |
|---|
| <u>GENERAL NOTES &amp; LEGEND</u>   |
| <u>WAHIAWA PEDESTRIAN BRIDGE</u><br><u>WHITMORE VILLAGE TO WAHIAWA</u><br>PROJ. No. HWY-O-07-18 |
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# CITY & COUNTY OF HONOLULU CONSTRUCTION NOTES

- 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.
- 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.
- 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.
- The general contractor/developer/owner of the project shall be responsible for conformance with applicable provisions of the Hawaii Administrative Rules, Title 11, Chapter 54, "Water Quality Standards," and Title 11, 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.

The general contractor/developer/owner of the project shall obtain National Pollutant Discharge Elimination System (NPDES) Permit coverage(s) for the following:

- I. Storm water discharges associated with construction activities that disturb one (1) acre or more, and
- II. Discharges of hydrotesting effluent, dewatering effluent, and well drilling effluent to state waters.

In accordance with State law, all discharges related to project construction or operations are required to comply with State Water Quality Standards (Hawaii Administrative Rules, Chapter 11-54). Best Management Practices shall be used to minimize or prevent the discharge of sediment, debris, and other pollutants to State waters. Permit coverage is available from the Department of Health, Clean Water Branch at http://health.hawaii.gov/cwb. The owner/developer/contractor is responsible for obtaining other Federal, State, or local authorizations as required by law.

- For non-City projects, the Contractor shall notify the Civil Engineering Branch, D.P.P. at 768-8084 to arrange for inspectional services and submit two (2) sets of approved Construction Plans seven (7) days prior to commencement of construction work. For City projects, the Contractor shall coordinate inspectional services with the responsible City agency.
- For non-City projects, the Contractor may submit a substitution request to 2. precast any City owned and/or maintained drainage structure (ex., catch basins, drain manholes, drain inlets, culverts, etc). However, prior to construction and installation of any precast structure, the Contractor shall a) submit six (6) sets of shop drawings to the Civil Engineering Branch, Department of Planning and Permitting and obtain written approval and b) notify the Civil Engineering Branch, Department of Planning and Permitting at 768-8084 to arrange for inspectional services. Non-compliance with any of these requirements shall mean immediate suspension of all precast construction work and rejection of all precast structures already constructed.

For City projects, the Contractor shall submit shop drawings to the responsible City agency for review and approval. Also, the Contractor shall coordinate inspectional services with the responsible City agency.

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#### Confined Space 7.

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.

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:

- Full body harnesses for up to two personnel.
- Lifeline and associated clips.
- Ingress/egress and fall protection equipment. С.

- Continuous gas detector (calibrated) to measure а. oxygen, hydrogen sulfide, carbon monoxide and flammables (capable of monitoring at a distance at least 20-feet away).
- Personal multi-gas detector to be carried by inspector. h.
- Continuous forced air ventilation adequate to provide safe entry conditions.
- III. One attendant/rescue personnel topside (two, if conditions warrant it).
- 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 (768-8084); and for City projects, notify the responsible City agency.
- For projects abutting State Highways rights-of way, the owner or his 9. authorized representative shall notify the State Department of Transportation, Highways Division, Oahu District, Drainage Discharge Unit at 831-6793 for an assessment of State Highways permit requirements.
- Elevations shown are from National Oceanic and Atmospheric Administration (NOAA) 2-foot contours. The Contractor shall be responsible for conducting their own topographic survey. There will be no additional compensation for a difference in elevations between the NOAA 2-foot contours and actual.
- Prior to commencement of work within City Right-of-Way, the Contractor shall obtain a Street Usage Permit from the Department of Transportation Services (DS) and a Trenching Permit from the Department of Planning and Permitting (DPP).

Two-way radios (walkie-talkies) if out of line-of-sight. Emergency (escape) respirator (10 minute duration). Cellular telephone to call for emergency assistance.

| STATE OF HAWAI'I<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION |
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| GENERAL NOTES   |
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| WAHIAWA PEDESTRIAN BRIDGE   |
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