SPECIFICATIONS

FOR

FURNISHING LABOR AND MATERIALS

REQUIRED FOR

LEAHI HOSPITAL

UNDERGROUND STORAGE TANK REMOVAL

IFB No. 14-003

3675 KILAUEA AVENUE
HONOLULU, OAHU, HAWAII

FOR THE

HAWAII HEALTH SYSTEMS CORPORATION (HHSC)

STATE OF HAWAII

ENGINEER: Mitsunaga & Associates, Inc.

January 16, 2014
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>TABLE OF CONTENTS</td>
<td>2</td>
</tr>
<tr>
<td>NOTICE TO BIDDERS</td>
<td>3</td>
</tr>
<tr>
<td>SEALED BID FORM</td>
<td>4</td>
</tr>
<tr>
<td>GENERAL INFORMATION</td>
<td>8</td>
</tr>
<tr>
<td>GENERAL REQUIREMENTS</td>
<td></td>
</tr>
<tr>
<td>SECTION 01030 – PROJECT REQUIREMENTS</td>
<td>01030-1</td>
</tr>
<tr>
<td>SITE CONSTRUCTION</td>
<td></td>
</tr>
<tr>
<td>SECTION 02050 – DEMOLITION</td>
<td>02050-1</td>
</tr>
<tr>
<td>SECTION 02210 – TRENCH EXCAVATION AND BACKFILL</td>
<td>02210-1</td>
</tr>
<tr>
<td>SECTION 02223 – AGGREGATE BASE COURSE</td>
<td>02223-1</td>
</tr>
<tr>
<td>SECTION 02513 – ASPHALTIC CONCRETE PAVING</td>
<td>02513-1</td>
</tr>
</tbody>
</table>

APPENDIX A

APPENDIX B

END OF SECTION
NOTICE TO BIDDERS
Leahi Hospital
Underground Storage Tank Removal
IFB No. 14-003

SEALED BIDS will be received at the Hawaii Health Systems Corporation (HHSC), Purchasing Office, at Maluhia, 1027 Hala Drive, Honolulu, HI, 96817, up to 2:00 p.m. on February 21, 2014 and will be publicly opened and read aloud at the Maluhia Purchasing Department located in the basement of Maluhia.

The principal features of this project shall include but not be limited to cutting and removal of asphalt paving, excavation, cleaning and removal of an underground 1,000 gallon diesel fuel storage tank and associated subsurface piping, backfill and compaction, asphalt concrete pavement restoration (resurfacing and seal coating) and conducting environmental compliance activities in accordance with HDOH guidance for the removal and closure of UST’s.

The SOW includes the Contractor furnishing all plant, labor, equipment and materials, and performing all operations in strict accordance with the technical provisions and sketches provided herein, and subject to the terms and conditions of the contract.

Specifications may be found on the HHSC website: http://corp.hhsc.org/oahu/leahi/index.html (Click on Procurement - open solicitations)

To be eligible to submit a Bid, the Bidder must possess a valid State of Hawaii contractor’s license(s) B and/or C.

A pre-bid conference will be held on January 21, 2014 at 11:30 a.m. Interested Bidders shall meet at Leahi – lobby area.

For further information, please contact Michelle Kato, Contracts Manager at 832-3001 or Ron Kurasaki at 497-9350.
SEALED BID FORM

FOR

FURNISHING LABOR AND MATERIALS

REQUIRED FOR

LEAHI HOSPITAL
UNDERGROUND STORAGE TANK REMOVAL

IFB No. 14-003

After carefully examining the bid documents, drawings and specifications identified above, the Bidder proposes to furnish at its own expense all necessary labor, materials, tools and equipment to complete the work according to the true intent and meaning of the drawings and specifications, all for the Lump Sum Bid of:

______________________________ DOLLARS ($ ____________).

Respectfully Submitted:

______________________________
Signature / Printed Name

______________________________
Date

______________________________
Title

(Name of Business) is a: □ Sole Proprietor  □ Partnership  □ Corporation  □ Joint Venture Other (Specify)

______________________________
Business Address:

______________________________
Business Phone Number:

______________________________
E-mail address:

______________________________
Federal TAX ID #:

______________________________
Hawaii GET Lic ID #:

State of Incorporation is: (Specify) _________________________

The exact legal name of the business under which the contract, if awarded, shall be executed is: ____________________________

Underground Storage Tank Removal
Leahi Hospital
IFB No. 14-003
RECEIPT OF ADDENDA

Receipt of the following addenda issued by the HHSC is acknowledged by the date(s) of receipt indicated below:

Addendum No. 1 ___________ Date
Addendum No. 2 ___________ Date
Addendum No. 3 ___________ Date
Addendum No. 4 ___________ Date

It is understood that failure to receive any such addendum shall not relieve the Bidder from any obligation under this Proposal as submitted.

ALL JOINT CONTRACTORS OR SUBCONTRACTORS TO BE ENGAGED ON THIS PROJECT

The Bidder agrees the following is a complete listing of all joint contractors or subcontractors covered under Chapter 444 HRS, who will be engaged by the Bidder on this project to perform the required work. The Bidder certifies that it and its listed subcontractors or joint contractors together hold all licenses necessary to complete the Work, and understands that failure to comply with this requirement may be just cause for rejection of the bid.

The Bidder shall provide the complete firm name, license number and nature and classification description by each joint contractor or subcontractor. For projects with Alternate(s), Bidders shall fill out the supplementary schedule and list the Joint Contractor or Subcontractor who will be engaged for the respective Alternate Work. Do not include any Joint Contractor or Subcontractor previously listed.

Bidders shall list only one joint contractor or subcontractor per required specialty contractor’s license.

<table>
<thead>
<tr>
<th>Class</th>
<th>Classification Description</th>
<th>License</th>
<th>Complete Firm Name Joint Contractor or Subcontractor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Underground Storage Tank Removal
Leahi Hospital
IFB No. 14-003
Enclosed herewith:

Check box below:

☐ Surety Bond (*1)  ☐ Cashier’s Check (*3)  ☐ Share Certificate(*3)
☐ Legal Tender (*2)  ☐ Certificate of Deposit (*3)  ☐ Treasurer’s Check (*3)
☐ Certified Check (*3)  ☐ Teller’s Check (*3)  ☐ Official Check (*3)

In the amount of _______________________________ DOLLARS
($____ ) as required by law.

NOTES:

1. Surety bond underwritten by a company licensed to issue bonds in this State;
2. Legal tender; or
3. A certificate of deposit; share certificate; or cashier’s, treasurer’s, teller’s, or official check drawn by, or a certified check accepted by, and payable on demand to the State by a bank, a savings institution, or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration.
   a. These instruments may be utilized only to a maximum of $100,000.
   b. If the required security or bond amount totals over $100,000, more than one instrument not exceeding $100,000 each and issued by different financial institutions shall be accepted.
4. Please attach to this page evidence of the authority of this officer to submit bids on behalf of the Company, and also the names and residence addresses of all officers of the Company.
5. Fill in all blank spaces with information asked for or bid may be invalidated. PROPOSAL MUST BE INTACT, MISSING PAGES MAY INVALIDATE YOUR BID.
CERTIFICATION OF COMPLIANCE

______________________________ (Company Name) certifies it is in compliance with all laws governing entities doing business in the State, including the following:

1. Chapter 237 HRS (General Excise Tax)
2. Chapter 383 HRS (Hawaii Employment Security Law - Unemployment Insurance)
3. Chapter 386 HRS (Workers’ Compensation Law)
4. Chapter 392 HRS (Temporary Disability Insurance)
5. Chapter 393 HRS (Prepaid Health Care Act)
6. Offeror / Bidder is incorporated or organized under the laws of the State or is registered to do business in the State as a separate branch or division that is capable of fully performing under the contract.

Furthermore, ______________________________ (Company Name) acknowledges that making a false certification shall cause its suspension from further offerings or awards.

Signature: ____________________________ Date:__________________

Print Name: ____________________________

Title: ____________________________

(NOTARIZATION)

END SEALED BID FORM
GENERAL INFORMATION

PRE-BID MEETING

HHSC will hold a Pre-Bid Meeting on January 21, 2014 at 11:30 a.m. at the Leahi Hospital lobby area all interested Bidders for the purpose of reviewing the job site. The HHSC Representative for this project, along with the Contract Manager and Engineer will be present to answer questions relating to this project. Questions posed on this day and their subsequent answers that affect the scope of this project will be contained in the written response to questions and clarification requests. Additional questions shall be received by the Contracts Manager by January 28, 2014.

Valid tax clearance certificates from the State of Hawaii Department of Taxation (DOTAX) and the Internal Revenue Service (IRS) are required for all bids of $25,000 or more. The required tax clearance certificate must be filed along with the Bidder’s proposal.

REQUIREMENT FOR CONTRACTORS AND LICENSING CLASSIFICATIONS

General Engineering Contractors holding an ‘A’ license and General Building Contractors holding a ‘B’ license are reminded that due to the Hawaii Supreme Court’s January 28, 2002 decision in Okada Trucking Co., Ltd. v. Board of Water Supply, et al., 97 Haw. 450 (2002), they are prohibited from undertaking any work, solely or as part of a larger project, which would require the general contractor to act as a specialty contractor in any area in which the general contractor has no license. Although the ‘A’ and ‘B’ contractor may still bid on and act as the “prime” contractor on an ‘A’ or ‘B’ project, respectively, the ‘A’ and ‘B’ contractor may only perform work in the areas in which they have the appropriate contractor’s license. The remaining work must be performed by appropriately licensed entities.

The Bidder is cautioned that possession of appropriate license(s) to bid on the project may not be sufficient to perform the work. It is the sole responsibility of the Bidder to review the requirements of this project and determine the appropriate licenses that are required to complete the project. All Bidders must be sure that they possess, and that the subcontractor(s) listed in their proposal possess, all the necessary specialty licenses needed to perform the Work for this project.

Bid results will be available from the HHSC Contracts Manager the day after the bid opening.

SCHEDULE

The Bidder agrees to commence all work under this contract as follows:

Upon receipt of the Letter of Award with written instructions from the HHSC Contracts Manager, proceed with preparatory work including processing submittals, obtaining approvals, and permits, or other work as approved by the HHSC Contracts Manager. No work will be allowed at the jobsite. No ordering of materials will be allowed until:

(a) the date stipulated in the Letter of Notice to Proceed, or
(b) upon earlier written notice from the Contracts Manager, or
Upon receipt of the executed contract for the project.

PREFERENCE

Hawaii Products Preference is not applicable for this project.

BID DEADLINE

SEALED BIDS will be received at the Hawaii Health Systems Corporation (HHSC), Purchasing Office, at Maluhia, 1027 Hala Drive, Honolulu, HI, 96817, up to 2:00 p.m. on February 21, 2014 and will be publicly opened and read aloud at the Maluhia Purchasing Department located in the basement of Maluhia.

METHOD OF AWARD

It is understood that the award of contract will be made on the basis of the lowest responsible and responsive Lump Sum Bid.

It is further understood and agreed that:

1. The Contracts Manager reserves the right to reject any and/or all bids and waive any defects when, in the HHSC’s opinion, such rejection or waiver will be in the best interest of HHSC;

2. The award of the contract shall be conditioned upon funds being made available for these projects and further upon the right of the Contracts Manager to hold all bids received for a period of sixty (60) days from the date of the opening thereof, unless otherwise required by law, during which time no bid may be withdrawn;

3. Any agreement arising out of this offer is subject to approval of HHSC as to form, and to all further approvals, including the approval of the Governor, required by statute, regulation, rule, order, or other directive.

OTHER CONDITIONS

1. By submitting this proposal, the Bidder is declaring that its firm was not assisted or represented on this matter by an individual who has, in a HHSC capacity, been involved in this Project or this proposed contract in the past two years.

2. Anti-collusion Certification - In accordance with HAR 3-122-192, by submitting this proposal, the Bidder is declaring that the price submitted is independently arrived at without collusion.

3. Certification for Safety and Health Programs for Offers in excess of $100,000 - In accordance with HRS 396-18, by submitting this proposal, the Bidder certifies that its organization will have a written safety and health plan for this Project that will be available and implemented by the date stipulated in the Notice to Proceed. Details of the requirements of this plan may be obtained.
from the Department of Labor and Industrial Relations, Occupational, Safety and Health Division (HIOSH).

4. Labor and Wage Certification - In accordance with HRS 104 Wages and Hours of Employment on Public Works Construction Projects in excess of $2000, by submitting this proposal, the Bidder will comply with the requirements of chapter 104 and certifies that:

   a. Individuals engaged in the performance of the contract on the job site shall be paid not less than wages that the Director of Labor and Industrial Relations shall have determined to be prevailing for corresponding classes of laborers and mechanics employed on public works projects including any periodic adjustments to the prevailing wages during the performance of the contract;

   b. Overtime compensation shall be at one and one-half times the basic hourly rate plus fringe benefits for hours worked on Saturday, Sunday, or legal holiday of the State or in excess of eight hours on any other day; and

   c. All applicable laws of the federal and state governments relating to workers' compensation, unemployment compensation, payment of wages, and safety shall be fully complied with.

5. Upon the acceptance of the proposal by the Procurement Officer, the Bidder must enter into and execute a contract for the same and furnish a Performance and Payment bond, as required by law.

6. For bids of $25,000 or more, the bidder shall comply with the following chapters of the Hawaii Revised Statutes (HRS): Chapter 237 HRS (general excise tax); Chapter 383 HRS (employment security - unemployment insurance); Chapter 386 HRS (workers compensation); Chapter 392 (temporary disability insurance); Chapter 393 HRS (pre-paid health care); and shall be incorporated or organized under the laws of the State, or be registered to do business in the State as a separate branch or division that is capable of fully performing under the contract. Bidder shall complete the CERTIFICATION OF COMPLIANCE form at the end of the PROPOSAL and submit it with their bid.
SECTION 00210 - INSTRUCTIONS TO BIDDERS

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

A. Only Bidders with the required contractor’s license(s) are eligible to submit a Bid.

B. Bidders (Contractors) shall be incorporated or organized under the laws of the State or be registered to do business in the State as a separate branch or division that is capable of fully performing under the contract. The following definitions are used in the solicitation documents.

1. Hawaii Business §3-1222-112 HAR: A bidder who is registered and incorporated or organized under the laws of the State is a “Hawaii Business” and eligible for an award.

2. Compliant non-Hawaii Business §3-122-112 HAR: A bidder not incorporated or organized under the laws of the State, but is registered to do business in the State and complies with or is exempt from the requirements of §3-122-112 HAR, is a “Compliant Non-Hawaii Business” and eligible for an award.

3. Non-compliant Bidder: If a bidder is a non-Hawaii business and is not registered with the DCCA Business Registration Division (BREG) or cannot comply with §3-122-112 HAR, then the bidder is non-compliant and is ineligible for an award.

C. Bidders shall submit the “Sealed Bid Form”, bid bond (if required), tax clearances, Hawaii business certificates, and any other documents required by the bidding documents.

D. The State of Hawaii INTERIM GENERAL CONDITIONS, dated August 1999, and AMENDMENTS shall be read by the Contractor as they form a part of the Agreement to be entered into between the Contractor and the HHSC. The Interim General Conditions are not physically included in these specifications, but are included by reference. Copies of the INTERIM GENERAL CONDITIONS may be obtained from the Division of Public works, Department of Accounting and General Services, State of Hawaii at the following website: http://hawaii.gov/pwd/construction_bids/Members/qc/gen_cond_constr

1.02 OFFEROR(S) or BIDDER(S)

A. The terms “Offeror” and “Bidder” are synonymous when used in this Section and other solicitation documents.
1.03 ADDENDA, CLARIFICATIONS

A. Addenda: The HHSC may periodically issue an addendum that may increase or decrease the scope of work or contract time, provisions or conditions. The HHSC will make the addenda available to the bidders at the Contracts Manager’s office. Bidders are responsible for the information contained in the addenda or bid clarification whether or not the Bidder receives the addenda or clarification.

B. Bidders discovering an ambiguity, inconsistency or error when examining the bidding documents or the site and local conditions or bidders with questions or clarification requests shall send their written requests (email or fax notification are acceptable) to the Technical Representative. Bidders shall comply with the following procedures:

1. Identify each request with the Project Name and HHSC IFB Number.
2. Indicate the appropriate section number, paragraph, drawing and detail number, schedule or other identifier.
3. The request should be brief, concise, but complete enough to properly evaluate and determine the merits or non-merits of the question or request.

C. Bidders shall make any requests for clarifications no later than fourteen (14) calendar days prior to the submission date for sealed bids. Refer to the “Notice to Bidders” for submission date.

D. HHSC will respond to important requests or clarifications by way of addenda. HHSC may not address or respond to all bidders inquiries, if the HHSC determines the request is unimportant or not required to disseminate to all Bidders.

1.04 SEALED BID FORM (BID FORM)

A. Bidder shall fill out the “Sealed Bid Form” completely. Write in ink or type. Besides the following paragraphs with instructions, there are supplemental Bidder’s Instructions within the text of the “Sealed Bid Form” and bidders shall comply with the instructions. Do not alter the “Sealed Bid Form”, and maintain the form intact.

B. Hawaii Product Preference: If applicable to this project, bidders proposing to use Hawaii products shall complete the “Hawaii Product Schedule” by entering the product total cost (not unit price) and identifying the respective class. Bidders may provide a cost for any one or as many products listed in the schedule. Any product that is left without a respective cost and class designation cannot be used in the preference evaluation.
1. If there are several classes offered for a product, the bidder shall choose and circle the appropriate class, otherwise, preference will be given based on the class with the lower percentage.

2. If the Hawaii product preference is used to determine the contract award, the bidder must use the designated Hawaii products in the work, otherwise the bidder (contractor) may be in default of the contract.

C. Recycled Product Preference is not applicable to this project.

D. Other Conditions: Bidder acknowledges and agrees to the provisions and certifications stated in this article.

E. Receipt of Addenda: Bidder shall fill in the appropriate dates any addenda were received.

F. Listing Joint Contractors or Subcontractors:
   1. Bidder shall complete the “Joint Contractors or Subcontractors List.” It is the sole responsibility of the bidder to review the requirements of this project and determine the appropriate specialty contractor’s licenses that are required to complete the project. Failure of the bidder to provide the correct names, license numbers, specialty class number, classification description and to indicate that the specialty contractor is required for this project, may cause the bid to be rejected.

   2. Bidder agrees the completed listing of joint contractors or subcontractors is required for the project and that the bidder, together with the listed joint contractors and subcontractors, have all the specialty contractor’s licenses to complete the work.

   3. Based on the Hawaii Supreme Court's January 28, 2002 decision in Okada Trucking Co., Ltd. v. Board of Water Supply, et al., 97 Hawaii 450 (2002), the bidder as a general contractor (‘A’ or ‘B’ license) is prohibited from undertaking any work solely or as part of a larger project, which would require the bidder (‘A’ or ‘B’ general contractor) to act as a specialty (‘C’ license) contractor in any area in which the bidder (‘A’ or ‘B’ general contractor) has no specialty contractor’s license. Although the ‘A’ and ‘B’ contractor may still bid on and act as the “Prime Contractor” on an ‘A’ or ‘B’ project (See, HRS §444-7 for the definitions of an “A” and “B” project), respectively, the ‘A’ and ‘B’ contractor may only perform work in the areas in which they have the appropriate contractor’s license. The bidder (‘A’ or ‘B’ general contractor) must have the appropriate ‘C’ specialty contractor’s licenses either obtained on its own, or obtained automatically under HAR §16-77-32.
4. General Engineering ‘A’ Contractors automatically have these ‘C’ specialty contractor’s licenses: C-3, C-9, C-10, C-17, C-24, C-31a, C-32, C-35, C-37a, C-37b, C-38, C-43, C-56, C-57a, C-57b, and C-61.

5. General Building ‘B’ Contractors automatically have these ‘C’ specialty contractor’s licenses: C-5, C-6, C-10, C-12, C-24, C-25, C-31a, C-42a, and C-42b.

6. The table that lists the specialty contractor’ classifications in the bid form is from the Department of Commerce and Consumer Affairs’ (DCCA) website www.state.hi.us/dcca/har/index.html. Bidders shall provide the appropriate classifications numbers and descriptions for any specialty contractors that are not included in the bid form and bidders are directed to the DCCA web site for the latest updated list.

7. Instructions to complete the Joint Contractors or Subcontractors List:
   
a. Determine the specialty contractor classification(s) required for this project and provide the complete firm name and license number of the joint contractor or subcontractor in the respective columns. If the bidder is a general contractor and providing the work of the required specialty contractor classification, fill in the bidder’s (general contractor’s) license number and name.

   b. List only one joint contractor or subcontractor per required specialty contractor’s classification.

   c. For projects with alternate(s), fill out the respective “Joint Contractors or Subcontractors List for the Alternate(s).” Bidder shall determine the specialty contractor’s classification and description required for the respective alternate. Bidders shall fill in the complete class number, class description, firm name and license number of the respective joint contractor or subcontractor. The bidder shall not include any joint contractor or subcontractor previously listed for the base bid.

G. Cost: Bidder shall completely fill out the sealed bid form and enter the cost for the Project Bid Price. Bidder shall tabulate the Project Bid Price, Variable Quantities Unit Prices and Allowances when provided, and the Bidders shall then enter the Total Lump Sum Bid Price. **BE SURE TO ENTER THE TOTAL LUMP SUM BID PRICE IN WORDS AND NUMERALS.**

H. Schedule: Bidder shall submit a draft construction schedule with the bid form.

1.05 EVALUATION CRITERIA

A. Evaluating Bids: The lowest responsive, responsible bid is determined by the following procedures:
1. The total lump sum bid price is adjusted to reflect the applicable preferences.
   
   a. For projects with alternates, the total lump sum base bid price and alternates will be adjusted to reflect the applicable preferences.

2. Project control budget is established prior to the submission of bids.

1.06 METHOD OF AWARD

A. The contract will be awarded to the lowest responsive and responsible Bidder whose bid (including any alternates which may be selected) meets the requirements and criteria set forth in the solicitation documents.

B. In the event the total lump sum bid of all bidders exceeds the project control budget, HHSC reserves the right to make an award to the apparent Low Bidder if additional funds are available or by reducing the scope of work through negotiation.

1.07 OTHER CONDITIONS FOR AWARD

A. The Chief Procurement Officer may reject any or all bids and waive any defects if the Chief Procurement Officer believes the rejection or waiver is in the best interest of HHSC.

B. The Chief Procurement Officer may hold all bids up to 60 calendar days from the date bids were opened. Unless otherwise required by law, bids may not be withdrawn without penalty.

C. The award of the contract is conditioned upon funds made available for the project (or projects if applicable).

1.08 COMPLIANCE WITH §3-122-112 HAR:

A. As a condition for award of the contract and as proof of compliance, the bidder shall meet the “Hawaii Business” or “Compliant non-Hawaii Business” requirements and shall provide the following documents:

   1. Department of Taxation (DOTAX) and the IRS tax clearance certificates.

   2. Department of Labor (DLIR) certificate of compliance.

   3. Department of Commerce and Consumer Affairs (DCCA), Business Registration Division (BREG) certificate of good standing.
a. A Hawaii business that is a sole proprietorship is not required to register with the BREG and therefore not required to submit the DCCA, BREG "Certificate of Good Standing."

B. The apparent three low bidders shall furnish the required documents to HHSC within seven calendar days from the bid opening date. If a valid certificate is not submitted on a timely basis for award of a contract, a bidder otherwise responsive and responsible may not receive the award. Bidder is responsible to apply for and submit the documents by the required deadlines.

PART 2 - PRODUCTS

2.01 REQUIRED DOCUMENTATION FOR HAWAII BUSINESS OR COMPLIANT NON-HAWAII BUSINESS (§3-122-112 HAR)

A. Tax Clearance Requirements (HRS Chapter 237): Bidder shall obtain a tax clearance certificate from the Hawaii State Department of Taxation (DOTAX) and the Internal Revenue Service (IRS). The certificate is valid for six months from the most recently approved stamp date on the certificate; the certificate must be valid on the date received by HHSC.

1. DOTAX Tax Clearance Application Form A-6 (Rev 2003) is available at DOTAX and IRS (State of Hawaii) offices or DOTAX website, and by mail or fax.

   a. DOTAX website: [http://www.state.hi.us/tax/alphalist.html#a](http://www.state.hi.us/tax/alphalist.html#a)

   b. DOTAX forms by fax/mail: (808) 587-7572 or 1-800-222-7572

2. Mail, fax or submit in person completed tax clearance application forms to the Department of Taxation, Taxpayer Services Branch or to the address listed on the application. Facsimile numbers are:

   a. DOTAX: (808) 587-1488

   b. IRS: (808) 539-1573

3. DOTAX will return the form to the bidder. The bidder is reminded that it is responsible to submit the applications for the tax clearance directly to DOTAX or IRS and not to HHSC.

B. DLIR Certificate of Compliance (HRS Chapter 383 - Unemployment Insurance, Chapter 386 - Workers’ Compensation, Chapter 392 - Temporary Disability Insurance, and 393 - Prepaid Health Care): Bidder shall obtain a certificate of compliance from the Hawaii State Department of Labor and Industrial Relations (DLIR). The certificate is valid for six months from the
date of issue; certificates must be valid on the date received by HHSC.

1. **DLIR Application For Certificate Of Compliance With Section 3-122-112 HAR, Form LIR#27** is available at DLIR website or at the neighbor island DLIR District Office.
   
a. DLIR website: [http://www.dlir.state.hi.us/LIR#27](http://www.dlir.state.hi.us/LIR#27)

2. Mail, fax or submit in person completed application form to the Department of Labor and Industrial Relations, Administrative Services Office at the address listed on the application.

3. DLIR will return the form to the bidder. The bidder is reminded that it is responsible to submit the application for the certificate directly to DLIR and not to HHSC.

C. **DCCA Certificate of Good Standing**: Bidder shall obtain a certificate of good standing issued by the Department of Commerce and Consumer Affairs (DCCA), Business Registration Division (BREG). The certificate of good standing is valid for six months from the date of issue; certificates must be valid on the date received by HHSC.

1. **DCCA Certificate of Good Standing** is available from the business registrations website or by telephone. Bidders are advised there are costs associated with registering and obtaining the certificate.
   

b. DCCA telephone: (808) 586-2727, M - F 7:45 to 4:30 HST

2. Submit the application per DCCA’s requirements.

3. DCCA will return the form to the bidder. The bidder is reminded that it is responsible to submit the application for the certificate directly to DCCA and not to HHSC.

END OF SECTION
DIVISION 1 – GENERAL REQUIREMENTS

SECTION 01030 - PROJECT REQUIREMENTS

PART 1: GENERAL

1.01 SUMMARY

A. Scope: The principal features of this project shall include but not be limited to cutting and removal of asphalt paving, excavation, cleaning and removal of an underground 1,000 gallon diesel fuel storage tank and associated subsurface piping, backfill and compaction, asphalt concrete pavement restoration (resurfacing and seal coating) and conducting environmental compliance activities in accordance with HDOH guidance for the removal and closure of UST's.

The SOW includes the Contractor furnishing all plant, labor, equipment and materials, and performing all operations in strict accordance with the technical provisions and sketches provided herein, and subject to the terms and conditions of the contract.

B. Location: The work site is located at Leahi Hospital, 3675 Kilauea Avenue, Oahu, Hawaii.

1.02 SUBMITTALS

Listed below are the required submittals for this contract:

1. Project Work Plan.
3. Notifications of Intent to Close UST.
4. HDOH Form #1, Notification for Underground Storage Tanks.
5. UST Initial Release Response Report (if appropriate).
6. UST Closure Report.

1.03 DISPOSITION OF MATERIALS

All waste generated during completion of the SOW shall be removed from the jobsite and disposed of by the Contractor at a recycler or permitted landfill. The jobsite shall be kept in a neat and orderly appearance at all times.

1.04 APPROVALS

Before any excavation, alteration, or other construction work is begun, the Contractor shall obtain a Notice to Proceed from the Client's Technical Representative (CTR).
1.05 PROTECTION OF EXISTING UTILITIES

The Contractor shall verify through toning or other subsurface investigative means the location of subsurface utilities in the vicinity of the UST. The selected toning method shall not compromise the structural integrity of the tank, the supply/return pipe, other appurtenances that may contain residual fuel and which may be attached to the existing fuel tank(s), or any adjacent structure/anchors.

All utility lines shall be safeguarded and protected from damage by the Contractor when encountered or uncovered during digging, excavation, and backfilling procedures. Any construction within 2 feet on either side of an identified utility centerline shall be dug by hand. Any utilities damaged shall be repaired immediately by the Contractor at no cost to the client.

1.06 PARKING AND STORAGE AREAS

The Contractor shall keep at the site only equipment and materials for immediate use. Arrangements for parking of equipment and vehicles, and storage of materials shall be made in advance with the CTR. No equipment or materials shall be stored on existing grass areas. A storage area will be provided to the Contractor if space is available at the site.

1.07 DEMARCATION OF WORK AREAS

The Contractor shall cordon off and identify the general work zone with items that include water filled barricades, orange construction fencing, delineators, yellow hazard tape. Signs will be prominently displayed identifying the work area as restricted for authorized personnel only.

1.08 SPILL PREVENTION

The Contractor shall employ spill prevention measures as required during UST and pipeline removal activities to prevent releases to soil and groundwater of petroleum product, rinse water, and other investigation derived waste. After excavation but before removal, associated piping shall be cut several feet back from the tank to prevent any damage to the bulkhead fittings. Polyethylene sheeting and oil absorbent material shall be laid down prior to cutting and capping of fuel lines to prevent contamination of the excavation.

Spills at the site resulting from the Contractor’s failure to exercise reasonable care and precaution in performing the work shall be cleaned up to the level approved by the CTR at no cost to the client.

1.09 CONTRACTOR UTILITY CONSERVATION

The Contractor shall make every effort to conserve utilities. Lights shall be turned off when not required. Water shall be used prudently with valves turned off when not in use. With the exception of security lighting, all utilities shall be turned off during nonworking hours.
1.10 **VEHICLE RESTRICTIONS**

The Contractor shall not drive or park vehicles or construction equipment upon grassy areas or in reserved parking stalls. Requests for exception shall be submitted to the CTR and will be evaluated strictly on a case-by-case basis.

1.11 **FACILITY BUILDINGS**

Existing buildings adjacent to the project site will be in use during construction. Scheduling and performance of work shall be done in such a manner to cause the least possible interference with the activities in and around the buildings. Scheduling shall be done with the CTR.

1.12 **RESTORATION**

The finished pavement gradient shall match the existing pavement gradient unless adjustments to the pavements are required to ensure proper drainage and smooth-riding connections to existing facilities, and to prevent depressions in the pavement. The Contractor may require his own survey team to maintain grades and alignment.

1.13 **SAFETY**

The Contractor shall comply with all federal, state, and local safety laws, regulations, and rules during all construction activities. Contractor shall submit a safety plan, including accident prevention plan, to the CTR prior to the start of field activities.

**PART 2 - PRODUCTS (NOT USED)**

**PART 3 - EXECUTION**

3.01 Perform operations and furnish equipment, fixtures, appliances, tools, materials, related items and labor necessary to execute, complete and deliver the Work as required by the Contract Documents and as separated into seven construction phases.

END OF SECTION
DIVISION 2 – SITE CONSTRUCTION
SECTION 02050 – DEMOLITION

PART 1 – GENERAL

1.01 PREPARE PRELIMINARY AND FINAL NOTICES OF INTENT TO CLOSE UST

Prepare Preliminary Notice (i.e. HDOH Form “Notice of Intent to Close Underground Storage Tanks, UST TGM Appendix 3-C) for submittal to HDOH UST Section. Form due to CTR 37 calendar days prior to UST closure.

Submit final notice to HDOH UST Section, due 7 calendar days prior to closure. Notice may be by telephone call but should also be documented via e-mail or letter.

Notify the County Fire Department of the intent to close the UST and obtain any necessary permits.

1.02 PREPARE PROJECT PLANS

Prepare draft and final copies of a UST Removal Work Plan that, at a minimum, incorporates applicable components from Appendix 2-A (Format For a Work Plan for UST Activities) of the UST TGM. The work plan shall also include the components of a sampling and analysis plan and a quality assurance project plan to address soil, groundwater, and IDW sampling as described in M1 and M2.

Prepare a general Site Safety and Health Plan (SSHP) that addresses anticipated hazards associated with the work.

Submit electronic copies of the draft UST Closure Work Plan and SSHP to the CTR for one round of review and comment. Incorporate requested changes into the final documents.

Submit electronic copies of the final UST Closure Work Plan and SSHP to the CTR.

1.03 CONDUCT UST CLOSURE IN ACCORDANCE WITH THE UST TGM AND HAR 11-281, SUBCHAPTERS 6-9

A. Applicable Publications
The publications listed below form a part of this scope of work to the extent referenced. The publications are referred to in the text by the basic designation only. They are as follows:


- 2015 Cleaning Petroleum Storage Tanks
- The National Institute for Occupational Safety and Health (NIOSH)
- Criteria for a Recommended Standard-Working in Confined Spaces
- Occupational Safety and Health Administration (OSHA) 29 CFR PARTS 1910 AND 1926

B. Geologist/Scientist

The field team shall include a qualified geologist or scientist who shall be present onsite during removal activities to record and evaluate site geologic, hydrogeologic, and soil conditions and any evidence of contamination identified.

C. Photographic Record

A captioned photographic record of all phases of the project shall be maintained and will become part of the UST closure report. At a minimum, the following photographs should be collected and documented in the closure report:

- Pre-existing site conditions and final restored site-conditions;

- Excavation and removal activities including photographs showing: the UST in-situ with all four sides of the tank; bulkhead fittings, elbows, and joints; and tank integrity or any signs of corrosion, tears, or other damage; and

- Base of the UST excavation after tank removal any evidence of a release (i.e. soil staining or free product).

D. Vapor Monitoring

1. Testing for Organic Vapors

During excavation, field-testing shall be conducted at regular depths to determine the presence of organic vapors in the pit. These readings with their associated depth of excavation shall be recorded and shall become part of the report. The presence of organic vapors shall be measured with a PID.

2. Test for Explosive Vapors

Prior to any excavation and/or demolition, the tank shall be tested for the presence of explosive vapors. If testing indicates vapor concentration to be near or within the explosive range, the tank shall be degassed until concentrations reach safe levels. Monitoring of the tank for explosive vapors shall continue until the tank is cleaned with degassing performed as required. Filling the tank with water is not an acceptable means of degassing during operations at the site or during transportation to the processing facility for final cleaning and decommissioning.
E. UST AND PIPELINE REMOVAL AND DISPOSAL

1. Draining
   a. Empty UST

   Residual liquids shall be pumped from the tank before any demolition or excavation begins. A hand pump may be required to remove the bottom few inches of product from the tank. The fuel shall become the property of the Contractor and shall be recycled or disposed of by the Contractor in a manner in accordance with Federal and State regulations.

   b. Empty Pipelines

   All surface and subsurface pipelines shall be drained, flushed and removed along with the tank in accordance with the American Petroleum Institute (API) Recommended Practice 1604, “Removal and Disposal of Used Underground Petroleum Storage Tanks.”

2. Cleaning
   a. Tank and Pipeline Cleaning

   The tank is identified as a 1000 gal capacity, containing No. 2 diesel fuel. Typically these tanks are known to be cylindrical measuring approximately 4-foot diameter by 12-foot in length. It is not anticipated that entry to this tank will be required. Therefore confined space requirements are not contained in this scope of work.

   After the tank has been emptied and gassed freed an 18-inch by 18-inch (or larger) coupon will be cut from the tank with a pneumatic or explosion proof cutter to allow access for cleaning. No hot work (open flame) will be permitted on the site.

   The tank and piping will be triple rinsed with water and a surfactant. All tank cleaning residues will be pumped and contained in either drums or vacuum truck.

   b. Prevention of Contamination

   During cleaning of the tank and pipelines, the Contractor shall ensure that no deleterious material shall leach, runoff, percolate or in any way be harmful to the environment. Cleaning shall be in accordance with API Publication 2015, “Cleaning Petroleum Storage Tanks” and the NIOSH “Criteria for a Recommended Standard-Working in Confined Spaces.” Residual sludge, if any, and rinseate that cannot be recycled shall be contained in a Department of Transportation (DOT) specified drums and disposed of as hazardous waste.
Note: Since the tank has reportedly only contained No. 2 diesel fuel it is not anticipated that the remaining residual fuel and sludge is hazardous waste.

3. Removal
   a. UST Removal
      The contractor shall determine the best method to remove the tank while preventing damage during removal.
   b. Pipeline Removal
      If associated piping is located under a structure (building, sidewalk, roadway), the pipes shall be removed up to the structure and capped at that point. The vent line shall be removed in its entirety.

4. Inspection
   a. The UST and pipelines shall be inspected for evidence of corrosion, tears, or other damage that may have resulted in a release. Damage caused during the removal process to either the UST or the pipelines shall also be photographed and documented in the final report.

5. Disposal
   a. UST and Associated Pipeline Disposal
      Once cleaned, the tank and pipelines shall be transported disposed of as recyclable metal. Any tank identification plates shall be removed and returned to the client with the report. The processing facility shall provide a written certificate of tank disposition. As a minimum the certificate shall state the tank capacity, construction, manufacturer (if determinable), method of disposition and date of disposition. The certificate of tank disposition shall become a part of the report.

6. Decontamination
   Decontamination shall be done following tank and pipeline removal and prior to leaving the site. All equipment shall be decontaminated according to the industry standard for each piece of equipment.
1.04 WASTE STORAGE, TRANSPORTATION, AND DISPOSAL

A. Storage of Waste Materials

1. Excavated Soil

Excavated soil pending laboratory analysis that is not placed in containers shall be placed on 6-mil polyethylene sheeting to prevent possible contamination of the ground surface. A berm shall be constructed around the stockpile to prevent infiltration of runoff caused by rain to impact the stockpiled materials. Excavated soil that remains on the surface for periods when no work is underway will be covered with polyethylene sheeting and secured in place with sandbags or other weighted materials to prevent infiltration of rainwater and control and mitigate fugitive dust.

Demolition debris identified as broken asphalt, concrete, cinder blocks, wood framing and metal shall be stockpiled separately from excavated soil. Demolition debris shall be promptly removed from site and either recycled or disposed of as construction debris to a local permitted landfill.

2. Tank and Pipeline Residually

In the event tank residuals are not immediately removed off site for recycling or disposal they shall be contained in either DOT Open head, 55-gal carbon steel drum (solids) or DOT closed head 55-gal carbon steel drum (liquids) and on spill containment pallets in an area protected from pedestrian and road traffic. The Contractor shall promptly remove all drummed waste from the property after determination of the hazard class.

B. Transportation and Disposal

Disposal of debris, containment soil (if encountered), tank/pipeline residuals and rinsates, shall be in accordance with standards established by State, Federal, and local authorities and transported in DOT specified containers. The Contractor shall determine if any of the waste qualifies as a RCRA hazardous waste and disposal shall be handled accordingly.

1. Wastes Manifests

All manifests, waste profile sheets, and any other applicable waste disposal forms shall be signed by the CTR. Copies of all disposal documents shall be provided in the Final Report.

2. Transportation

Waste shall be transported in accordance with all applicable DOT requirements. In the event that hazardous waste disposal is required, the Contractor shall verify that the transporter is a licensed Hazardous Waste Transporter in accordance with DOT regulations.
3. Treatment/Disposal Facilities

Waste shall be disposed of at on-island disposal and/or recycling facilities whenever possible. If required, the Contractor shall investigate and identify potential RCRA or regulated waste USEPA-approved facilities suitable for treating and/or disposal of contaminated liquid, sludge, soil, and materials. Contractor shall identify and perform any additional testing necessary to ensure compliance with treatment/disposal requirements.

1.05 CONFIRMATION SAMPLING

Confirmation sampling shall be performed in accordance with HDOH UST Section policy and the HDOH Hazard Evaluation and Emergency Response Section Technical Guidance Manual (HEER TGM). At a minimum, the Contractor shall perform sampling as described below.

A. Soil Sampling

Collect a minimum of two discrete soil samples from the base of the excavation beneath the removed UST. Collect additional soil samples (1) beneath subsurface piping at a rate of one sample per twenty feet (preferentially from areas with identified contamination) and (2) beneath any joints, elbows, or other fittings if contamination is evident.

Soil samples may be collected by any of the approved discrete soil sampling methods listed in the HDOH HEER TGM as appropriate based on the intended chemical analyses.

Soil samples should be analyzed for the following analyses (Table 9-5, HEER TGM) by the indicated EPA SW-846 Methods (Table 11-A, HEER TGM):

- TPH-GRO by 5035/8015
- TPH-DRO/RRO by 3550/8015
- BTEX by 5035/(8015, 8021, or 8260)
- Napthalene, 1-methylnapthalene, 2-methylnapthalene by (3550 or 3540) / (8310 or 8270)

B. Groundwater Sampling

If groundwater is observed in the excavation, collect one grab groundwater sample (unfiltered).

Groundwater samples should be analyzed for the following analyses (Table 9-5, HEER TGM) by the indicated EPA SW-846 Methods (Table 11-B, HEER TGM):

- TPH-GRO and TPH-DRO by 5035/8015
- TPH-RRO by 8015
- BTEX 8260
- Napthalene, 1-methylnapthalene, 2-methylnapthalene by 8310 or 8270

END OF SECTION
SECTION 02210 - TRENCH EXCAVATION AND BACKFILL

PART 1 - GENERAL

1.01 SUMMARY
   A. This work shall consist of excavating and backfilling for the landscape irrigation lines, and appurtenances to the lines and grades shown on the plans, as directed by the Contracting Officer, and as specified herein. The work includes sheeting and bracing, hauling and disposing of unsuitable excavated materials.

1.02 EXISTING REGULATIONS
   A. All excavation work on State, County or Private streets and highways shall comply with the ordinances of the City & County of Honolulu relating to the streets and sidewalk excavation, the special provisions, and with the requirements herewith.
   B. The Contractor shall obtain the necessary permits from the Department of Public Works and any other affected agency before commencing with construction operations.

1.03 STANDARD CODES AND SPECIFICATIONS

PART 2 - PRODUCT

2.01 BACKFILL MATERIALS
   A. After the pipe or appurtenant structure is installed, inspected, and accepted by the Contracting Officer, the trench shall be backfilled with native material and/or imported material as described herein below.
   1. Pipe Bedding: A granular bedding consisting of 6 inches of No. 3B Fine gravel (ASTM C33, No. 67 gradation) shall be placed under all water, sewer and drain lines.
   2. First Lift: For the first lift from the bottom of the pipe to 12 inches above the pipe barrel, a free draining granular material, such as No. 3B Fine gravel (ASTM C33, No. 67 gradation), sandy or granular material such as black sand, beach sand, crushed fine aggregates or finely graded coral passing through a 1-inch sieve shall be used.
   3. Intermediate Lift: For the intermediate lift from 12 inches above the pipe barrel to the top of subgrade or proposed finished grade, either select fill material or native materials conforming to Section 02200 of these specifications shall be used.
4. Surface or Top 2-Foot Lift of All Trenches:
   a. For non-paved areas, suitable fill material conforming to Section 02200 - EARTHWORK with top soil for the top six (6) inch layer.
   b. For paved areas, select borrow subbase course, Section 02200 - EARTHWORK, Section 02223 - AGGREGATE BASE COURSE, and Section 02513 - ASPHALTIC CONCRETE PAVING shall be used.

5. Cold-Mix Asphalt Concrete: Cold-mix asphalt concrete for temporary trench patches shall conform to the resurfacing mix requirements shown in Table 1-34, Section 34, of the Standard Specifications with the exception of the liquid asphalt. Slow curing liquefied asphalt, SC-4, shall be used and shall meet the specifications under AASHTO Designation M141.

2.01 OTHER MATERIALS
   A. All other materials not specifically listed herein, but required for the successful installation and completion of the work are included, and are subject to approval.

PART 3 - EXECUTION

3.01 EXCAVATION
   A. Opened Length: Trenches in existing improved roads, pedestrian walkway, and paved areas shall not be opened for more than 150 feet in advance of the pipe laying unless specifically authorized by the Contracting Officer. In other areas, the trenches shall not be opened for more than 200 feet. No jumping of excavation will be permitted unless authorized in writing by the Contracting Officer.
   B. Trench Width: The trench width shall be the specified width for the pipe size to permit proper laying and jointing of the pipes and where concrete jacket is called for, the width shall be increased accordingly. If the Contractor excavates beyond the specified width and such action results in greater load of overburden than the pipe is designed for, the Contractor shall replace the pipe with one of higher strength or provide a higher class of bedding to withstand the extra load at his own expense.
   C. The top edges of the trench shall be neatly cut along well-defined lines. In overbreaks, the Contractor shall backfill and repave the overbreak areas at his own expense.
   D. The trench width below pipe level to two (2) feet above the top of the pipe shall not exceed the six (6) inches beyond the payment trench width specified in the referenced Standard Details. From a level two (2) feet above the top of the pipe to existing ground, the width of trench excavation shall extend as nearly vertical as practicable and/or be confined to the minimum work area required for construction and shall not extend beyond existing structures or utilities adjacent to the pipe alignment, unless otherwise authorized by the Contracting Officer.
E. Stockpiling Material: The placing of stockpiles of excavated materials, pipes and construction materials adjacent to the trench excavation shall be prohibited on roads and walkways and areas adjacent to roads and walkways where stockpiling of material may create a hazardous condition. The Contractor shall haul and store the materials at a site acceptable to the Contracting Officer and haul to the job site as required at no additional cost to the State. Access to existing roadways, pedestrian walkways, fire vehicle access lanes, fire hydrants and meters shall be provided at all times.

F. Unsuitable Excavated Materials: When unsuitable material is encountered at the excavation, the Contractor shall be responsible for hauling and disposing of the material. The hauling and disposal shall be considered as incidental to the excavation work and no additional payments will be made. The Contracting Officer shall determine if the excavated material is unsuitable.

G. Pipe in Embankment: For installing pipe in new embankment, the embankment shall first be constructed to a height of two pipe diameters (O.D.) above the established pipe invert or as indicated on the plans, and for a distance each side of the pipe location of not less than five pipe diameters. The trench shall then be excavated with sides as nearly vertical as soil condition will permit and the pipe installed.

3.02 ADDITIONAL EXCAVATION
A. When the subgrade material below the established trench grade is deemed unsuitable by the Contracting Officer, the Contractor shall excavate below grade to such depth and width as directed by the Contracting Officer. The excavated area below grade shall be filled with aggregate in 6-inch compacted layers and brought up to within 6 inches of the invert grade or to the bottom of the concrete jacket or cradle.

3.03 OVER-EXCAVATION
A. Any part of the trench excavated below the established grade or beyond the maximum permitted width, other than work under “3.02 Additional Excavation,” shall be refilled and compacted with select material by the Contractor at his own expense.

3.04 SHEETING AND BRACING
A. Wherever necessary, the Contractor shall properly sheet and brace the open trench to render it safe and secure from possible slides and to protect existing improvements and properties. The sheeting and bracing shall be removed before completing the backfill.

3.05 PLACING AND COMPACTING
A. Backfilling operations shall not commence until acceptable to the Contracting Officer or his authorized representative.
   1. First Lift: The first lift shall be backfilled by hand shoveling and tamping or by power equipment supplemented by hand shoveling and tamping so that the backfill material is in contact with the entire periphery of the pipe. The Contractor shall exercise care in backfilling to ensure that the pipe is not damaged nor moved from its installed position.
2. Intermediate Lift: The backfill shall be moisture conditioned to above the optimum moisture content, placed in maximum 8-inch level loose lifts, and mechanically compacted to not less than 90 percent relative compaction.

3. Final Lift: The surface 2-foot lift shall be placed and compacted in accordance with Section 02200 - EARTHWORK and Section 02223 - AGGREGATE BASE COURSE. Where trenches are below pavement or building areas, the upper 2 feet of the trench backfill below the pavement or building subgrade shall be compacted to at least 95 percent relative compaction.

3.06 TESTING

A. All testing shall be done by a certified testing laboratory in the State of Hawaii, with all costs paid for by the Contractor. A copy of the test results shall be submitted to the Contracting Officer for acceptance.

B. Test bedding and backfill for conformance to these specifications. Test bedding and backfill for moisture-density relations in accordance with ASTM D1557. Perform density and moisture tests in accordance with ASTM D1556 and in randomly selected locations as follows:

1. Bedding and Backfill in Trenches: One test per 200 linear feet in each lift.

2. Appurtenance Structures: One test per 100 square feet of fraction thereof in each lift.

END OF SECTION
SECTION 02223 - AGGREGATE BASE COURSE

PART 1 - GENERAL

1.01 SUMMARY
A. This work shall consist of furnishing, spreading and compacting untreated aggregate base course on the prepared subgrade (Section 02200 - EARTHWORK), or on existing improved surfaces in accordance with the requirements of these specifications.

1.02 STANDARD CODES AND SPECIFICATIONS

PART 2 - PRODUCTS

2.01 MATERIALS
A. The aggregate base course shall consist of crushed basalt aggregates. Base course consisting of crushed coral aggregates will not be accepted.

B. Materials shall be in accordance with Section 31.2 of the referenced Standard Specifications, except as amended in the drawings and specifications herewith.

C. Other Materials: All other materials not specifically listed herein, but required for the successful installation and completion of the work are included, and are subject to approval.

PART 3 - EXECUTION

3.01 FOUNDATION PREPARATION
A. The new compacted subgrade upon which the aggregate base is to be placed shall be prepared as specified under Section 02200 - EARTHWORK of these specifications.

3.02 PLACING AND COMPACTING
A. Spreading: The base material shall be delivered to the site and spread on the prepared foundation acceptable to Contracting Officer by means of vehicles equipped with spreading devices. The material when spread shall be uniform in gradation and free from large pockets of segregated particles. Segregated material shall be remixed until uniform.

B. Material shall not be stockpiled nor dumped in piles but shall be spread longitudinally and only in such quantity to obtain the required thickness. After watering and compacting, the completed base shall conform to the required grade and cross section within the tolerances specified herein below.
C. Lift Thickness: When the specified thickness of the base is 6 inches, the base shall be constructed in one lift. When the specified thickness is greater than 6 inches, the base shall be constructed in two or more equal lifts. The maximum thickness of each lift shall not exceed 6 inches.

D. Compacting: The base course shall be compacted until it does not creep or weave in front of the roller or compacting vehicle. When tested, the base course shall have a minimum density of 95% of its maximum dry density.

E. Filler Material: Wherever necessary, filler material shall be added to the surface. It shall be spread in one or more uniform thin layers. Each layer shall be rolled dry until additional filler cannot be forced into the voids. The surface shall then be sprinkled with water and again thoroughly rolled. All excess filler shall be removed. The sprinkling and rolling shall be continued to secure a thoroughly bonded surface.

F. Multiple Lifts: Where the aggregate base course is constructed in more than one layer, each layer shall be constructed as specified above except that sprinkling will be required only in the top layer. Each layer shall be compacted to a minimum of 95% of its maximum dry density.

3.03 ROLLING
A. Shaping: After spreading and blading, the aggregate base course shall be rolled lightly to obtain initial compaction to bring out any irregularities. The surface of the base shall then be carefully shaped and all high and low spots eliminated. When smooth and true, the material shall be rolled until it does not creep or move under the weight of the roller.

B. Rolling Direction: All rolling shall be longitudinal and shall commence at the outer edges. Rolling shall progress from each site toward the center of the road with an overlap of at least one-half of the rear wheel tracks on successive trips. Under no circumstances shall the center of the road be rolled first.

3.04 TOLERANCES
A. The finished surface shall be checked for accuracy with a 10-foot straightedge. If the surface at any point varies more than 1/4 inch from the lower edge of the straight-edge laid in any direction, it shall again be shaped and re-rolled. This process shall be repeated until the surface meets the required tolerance.

B. The finished subgrade upon which the final wearing surface is placed shall not vary more than 0.05 foot above or below the theoretical grade.

END OF SECTION
SECTION 02513 - ASPHALTIC CONCRETE PAVING

PART 1 - GENERAL

1.01 SUMMARY
A. Asphaltic concrete shall consist of a mixture of mineral aggregate and bituminous material, mixed at a central plant in the proportions hereinafter specified and spread and compacted on a prepared base or existing road surface.

B. The pavement may consist of a surface course mixture and leveling or base course mixture, as hereinafter specified.

PART 2 - PRODUCTS

2.01 MATERIALS
A. Weed killer as specified in SECTION 02282 - SOIL TREATMENT FOR VEGETATION CONTROL

B. Materials for asphaltic concrete paved areas shall be constructed in accordance with the below-listed sections of the City and County’s “Standard Specifications for Public Works Construction,” dated September 1986 and “Standard Details for Public Works,” dated September 1984 as revised, except as amended in the plans and/or specifications herewith. (Paragraphs concerning Measurements and Payments in the sections are not applicable to this project.)

1. Subgrade ............................................................... Section 29

2. Select Borrow for Subbase Course .................................. Section 30

3. Aggregate Base Course ............................................. Section 31

4. Asphalt Surface Treatment .......................................... Section 33

5. Asphalt Concrete Pavement ........................................ Section 34

Mix shall be No. 4

Mix shall be No. 5

C. Walkways and other foot traffic areas shall be constructed in accordance with the following sections of the county’s “Standard Specifications for Public Works Construction,” dated September 1986 as revised, except as amended in the plans and/or specifications herewith. (Paragraphs concerning Measurements and Payments in the sections are not applicable to this project.)

1. Subgrade ............................................................... Section 29

2. Aggregate Base Course ............................................. Section 31

3. Asphalt Concrete Pavement ........................................ Section 34
Mix shall be U.S. Navy Tennis Court Mix with the gradation of aggregates as follows:

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Combined Aggregate Total</th>
<th>Per Cent Passing by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot; Screen</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>No. 4</td>
<td></td>
<td>72 - 90%</td>
</tr>
<tr>
<td>No. 8</td>
<td></td>
<td>45 - 65%</td>
</tr>
<tr>
<td>No. 30</td>
<td></td>
<td>20 - 38%</td>
</tr>
<tr>
<td>No. 100</td>
<td></td>
<td>12 - 21%</td>
</tr>
<tr>
<td>No. 200</td>
<td>Windblown sand for blending. Not over 5% may be added with the Contracting Officer's approval.</td>
<td></td>
</tr>
</tbody>
</table>

4. Asphalt Surface Treatment ................................................................. Section 33

5. Asphalt Concrete Resurfacing ............................................................ Section 35

Mix shall be No. 4

PART 3 - EXECUTION

3.01 INSTALLATION
A. The Contractor shall stake out the areas to be paved, using grade stakes on which the final finish elevations, base course and subgrade elevations are clearly marked. All such stakes and elevations shall be approved by the Contracting Officer before any work is done.

B. Existing weed growth shall be treated with weed killer prior to paving. Weed killer shall be applied per the manufacturer's directions.

C. The Contractor shall notify the Contracting Officer 24 hours in advance before application of weed killer.

D. Installation of asphaltic concrete shall be in accordance with sections noted hereinbefore.

3.02 REPAIR OF EXISTING A.C. PAVEMENTS
A. Any existing asphaltic concrete pavements including roads, playcourts and walkways that have been damaged by construction activities shall be repaired to the original condition and to the satisfaction of the Contracting Officer. Damage done by heavy equipment, especially on roads and yards not stable for such equipment, shall be repaired to the original condition at the Contractor's expense and to the satisfaction of the Contracting Officer.

END OF SECTION
APPENDIX A

PREPARE AND SUBMIT “DOH FORM #1, NOTIFICATION FOR UNDERGROUND STORAGE TANKS” TO HDOH SHWB SECTION

1. SUBMIT FORM #1 to the CTR for review and approval 23 calendar days after completing UST closure

2. FOLLOWING CTR APPROVAL, submit to HDOH UST Section within 30 days after completing UST closure
APPENDIX B

FINAL REPORTING AND NOTIFICATION

If no release is identified during removal activities, final reporting will be in accordance with Section (a) below. If a release is identified during removal activities, final reporting and notification will be in accordance with Section (b) below.

A. No Evidence of Release During Closure Activities

Prepare draft and final copies of the UST Closure Report that, at a minimum, incorporate applicable components from Appendix 3-E (Format of an Underground Storage Tank Closure Report) of the UST TGM.

Submit hard and electronic copies of the draft UST Closure Report to CTR or one round of review and comment. Incorporate requested changes into the final report.

Submit hard and electronic copies of the final UST Closure Report to the HDOH UST Section and CTR.

B. Evidence of Release During Closure Activities

- Assist Leahi Hospital with release notification to HDOH UST Section within 24 hours of discovery of a release.

- Prepare the Confirmed Release Notification form (Appendix 5-B) of the UST TGM and submit to Leahi Hospital for review. Following approval by Leahi Hospital, submit to HDOH UST Section within 7 days of discovery of a release.

- Prepare draft and final copies of the Initial Release Response Report that, at a minimum, incorporate applicable components from Appendix 5-C of the UST TGM (Format for Initial Release Response Report). Per the UST TGM Section 2.1, the Initial Release Response Report should also include any applicable portions of the UST Closure Report listed in Appendix 3-E of the UST TGM.

- Submit hard and electronic copies of the draft Initial Release Response Report to Leahi Hospital for one round of review and comment. Incorporate requested changes into the final report.

- Submit hard and electronic copies of the final Initial Release Response Report to the HDOH UST Section and CTR within 90 days after discovery of the release.