

**STATE OF HAWAII
DEPARTMENT OF DEFENSE
OFFICE OF THE ADJUTANT GENERAL
3949 DIAMOND HEAD ROAD
HONOLULU, HAWAII 96816-4495**

ADDENDUM NO. 1

Heating, Ventilation, and Air Conditioning (HVAC) Equipment Preventative Maintenance
Service for Various Hawaii Army National Guard Buildings and Facilities on Oahu,
State of Hawaii, Department of Defense, Hawaii Army National Guard,
Job No. CA-202110

The items listed hereinafter are hereby made a part of the contract for the above-mentioned project and shall govern the work taking precedence over previously issued contract documents governing the items mentioned. Receipt of this addendum is to be acknowledged on page OF-7 of the proposer's packet.

In keeping with Governor Ige's emergency declaration regarding COVID-19, Department of Defense (DoD), Engineering Office is temporarily altering the process to be used for bid openings to adhere to the requirement to avoid unnecessary gatherings.

Bids will not be opened in public. After 2:00 PM, bids will be opened by two DoD, Engineering Office personnel. Following the bid opening, the bid tabulation will be posted on the DoD website, <http://dod.hawaii.gov/hieng/>, along with the subcontractor listing for the initial apparent low bidder. Additionally, DoD will email to each bidder PDF files providing scans of all pages for each of the three apparent lowest bids received. This service is intended to replace the prior practice of permitting bidders to photograph competitors' bid packages.

Clarifications:

1. During the four-day site walkthrough with the interested Bidders, more HVAC equipment were found on site which were not included in the Appendix F and Appendix G. Also noted were site conditions where mechanized equipment and long ladders are required to be able to access the ceiling and roof mounted HVAC equipment during maintenance service. Appendix H: Addendum to Appendix G (Additional Equipment List and Findings After the Site Walkthrough) is being posted as part of the SPECIFICATIONS.

2. The correct/complete title for this project is: Heating, Ventilation, and Air Conditioning (HVAC) Equipment Preventative Maintenance Service for Various Hawaii Army National Guard Buildings and Facilities on Oahu, State of Hawaii, Department of Defense, Hawaii Army National Guard, Job No. CA-202110

Below is the answer to a question submitted prior to the due date of April 26, 2021.

1. Concerning the “two (2) regular assigned Refrigeration Mechanics (RM) as lead Technician” and the requirement for the RM’s to “have a factory or equivalent certified training, at the time of bid submission, for McQuay, and Trane chillers, from a minimum of a four-day training course”...

Would it be acceptable if one RM have the minimum four-day training course for McQuay chillers and the second RM have the minimum four-day training course for Trane chillers? As opposed to each RM having both training courses.

- a. Yes, it is acceptable to have one (1) of the two (2) required Refrigeration Mechanics to have a factory or equivalent certified training for McQuay chillers and the other Refrigeration Mechanic for Trane chillers.*

Stephen F. Logan
Colonel
Acting Adjutant General
Posted: May 4, 2021

**HVAC EQUIPMENT PREVENTATIVE MAINTENANCE SERVICE FOR VARIOUS HAWAII ARMY
NATIONAL GUARD BUILDINGS AND FACILITIES ON OAHU, STATE OF HAWAII,
DEPARTMENT OF DEFENSE, HAWAII ARMY NATIONAL GUARD, JOB NO. CA-202110**

Adjutant General
State Department of Defense
3949 Diamond Head Road
Honolulu, Hawaii 96816-4495

Dear Sir:

The undersigned has carefully read and understands the terms and conditions specified in the Specifications, and all documents attached hereto, and hereby submits the following offer to perform the work specified herein, all in accordance with the true intent and meaning thereof. The undersigned further understands and agrees that by submitting this offer, 1) he/she is declaring his/her offer is not in violation of Chapter 84, Hawaii Revised Statutes, concerning prohibited State contracts, and 2) he/she is certifying that the price(s) submitted was (were) independently arrived at without collusion.

The undersigned represents: **(Check ✓ one only)**

- ☐ A **Hawaii business** incorporated or organized under the laws of the State of Hawaii, **OR**
☐ A **Compliant Non-Hawaii business** not incorporated or organized under the laws of the State of Hawaii. Business shall be registered prior to award at the State of Hawaii Department of Commerce and Consumer Affairs Business Registration Division to do business in the State of Hawaii.

State of incorporation: _____

Offeror is:

- ☐ Sole Proprietor ☐ Partnership ☐ Corporation ☐ Joint Venture
☐ Other _____

Federal I.D. No.: _____

Hawaii General Excise Tax License I.D. No.: _____

Payment address (if other than street address below): _____

City, State, Zip Code: _____

Business address (street address): _____

City, State, Zip Code: _____

Respectfully submitted:

Date: _____

(x) _____
Authorized (Original) Signature (*1)

Telephone No.: _____

Fax No.: _____

Name and Title (Please Type or Print)

E-mail Address: _____

Exact Legal Name of Company (Offeror) (*2)

(*1) Original signature in ink. If unsigned or the affixed signature is a facsimile or a photocopy, the offer shall be automatically rejected unless accompanied by other material, containing an original signature, indicating the Offeror's intent to be bound.

(*2) If Offeror is a "dba" or a "division" of a Corporation, furnish the exact legal name of the corporation under which the awarded contract will be executed:

The undersigned has carefully examined the attached plans and specifications and hereby proposes to furnish at his own expense all labor, materials, tools, and equipment necessary as shown and called for, in strict accordance with the specifications pertaining thereto, all for the LUMP SUM BID PRICE of (Including all applicable taxes, delivery, unloading, freight charges and other costs involved.):

LUMP SUM BID PRICE (Total Yearly Cost)

DOLLARS (\$_____).

[BIDDER'S INSTRUCTIONS: Fill in the total lump sum bid price in numbers and write out the total lump sum bid price in words. Prices shall be written in ink or typed.]

The undersigned hereby provides a breakdown of the LUMP SUM amount. There are no additive and deductive items in this project.

Bid Item No.	BUILDING/FACILITY/LOCATION	Yearly Cost
1	Building 19 (JFHQ, HHD Admin. Bldg.), Kalaeloa	
2	Building 46 (Medical Detachment), Kalaeloa	
3	Building 1784 (HIARNG Staff Bldg.), Kalaeloa	
4	Building 1785 (HIARNG HQ Bldg.), Kalaeloa	
5	Building 1788 (HIARNG HQ Conference Bldg.), Kalaeloa	
6	Building 175 (HIARNG Mail Distribution Center), Kalaeloa	
7	Building 117, (Bravo Co.,USPFO/FMS 1, CSMS Low Bay Area), Kalaeloa	
8	Building 117B (CSMS 1 External Work Bay), Kalaeloa	
9	Building 1903 (FMO & Env Admin Office), Kalaeloa	
10	Building 1898 (Admin Gen. Purpose Bldg.), Kalaeloa	
11	Building 29 (Readiness Center), Kalaeloa	
12	Building 1874, Kalaeloa	
13	Building 663 (CSMS Admin Bldg.), Kalaeloa	
14	Building 282 (Admin Gen Purpose Bldg.), Kalaeloa	
15	Building 134 (93rd CST Ready Bldg.), Kalaeloa	
16	Building 30 (Aviation Building), Kalaeloa	
17	Building 829 (AASF No. 1), Wheeler AFB	
18	Building 832, C/193 Aviation Armory, Wheeler AFB	
19	Building 825, OSA Det 55, Wheeler AFB	
20	Wahiawa Armory, Kamehameha Highway, Wahiawa	
21	Regional Training Site-Maintenance Building, Waihona, Pearl City	
22	103rd Troop Comm RC Bldg. 1, Waihona, Pearl City	
23	103rd Troop Comm Band Bldg. 2, Waihona, Pearl City	
24	UTES Building 21, Waihona, Pearl City	
25	Building 306, Diamond Head road, Honolulu	
26	Building 306A, Diamond Head Road, Honolulu	
27	Building 300/300A, 22nd Avenue, Fort Ruger, Honolulu	

28	Battery 407 Tunnel, Diamond Head Crater	
29	Buildings 710, 711, 712, 713, 714, 714A, 715, 716	
	711 Tinker Road, Waimanalo	

Hawaii Products available for this project are as follows:

Product Description	Class I, II or III	Manufacturer	Cost
			\$
			\$

NOTE:

1. Contract will be awarded based on the total lump sum bid.
2. The prices listed in this Offer Form are firm and fixed for a minimum of 90 days from the date set for opening of the bids for this project unless otherwise noted above.
3. The State reserves the right to determine the extent of the contract by selecting and/or omitting bid items (not necessarily in numerical sequence or all of the bid items in the bid schedule) to the extent required to come within the funds available for the project. The award of the contract shall be made to the responsible bidder whose aggregate total on any combination or all of the bid items are the lowest.
4. Failure to submit complete item bids will cause the rejection of this proposal.
5. A site visit for each location is listed below. Interested Bidders are to register by calling Edardo Mendoza at 808-230-7413 by **4:00 PM on April 16, 2021**. If no response, please leave message giving information of company's name, attendee's name, and attendee's contact number. After the call, you may assume you have been registered for the site visit. All interested bidders and subcontractors are welcome. Site visit is recommended but not mandatory.

Site Visit Instructions and Schedules:

For April 20, 2021 Kalaeloa Area site visit:

Meet with Ed Mendoza between 8:00 a.m. and 8:15 a.m. at the parking area of HIARNG Building 19, Shangrila Street corner Enterprise Avenue, Kalaeloa (Barbers Point), Kapolei.

For April 21, 2021 Pearl City, Wahiawa, and Wheeler AFB Areas site visit:

Meet with Ed Mendoza between 8:00 a.m. and 8:15 a.m. at the parking area in front of Building 829 (AASF 1), Santos Dumont Avenue, Wheeler AFB. Site visit attendees with no Installation Access Pass, shall secure a day pass from the Schofield Barracks Visitor Control Center at Lyman Gate.

For April 22, 2021 Fort Ruger/Diamond Head Crater Areas site visit:

Meet with Ed Mendoza between 9:00 a.m. and 9:15 a.m. at the parking area near visitors' entry gate/guard shack of HI State Department of Defense Building 306, 3949 Diamond Head Road, Honolulu.

For April 23, 2021 Waimanalo site visit:

Meet with Ed Mendoza between 10:00 a.m. and 10:15 a.m. at the entry gate parking area of Regional Training Institute (RTI), 711 Tinker Road, Waimanalo.

Bid Item No.	BUILDING/FACILITY/LOCATION	Start Time	End Time
	AREA I: KALAELOA (APRIL 20, 2021)	8:00 a.m.	4:00 p.m.
1	Building 19 (JFHQ, HHD Admin. Bldg.), Kalaeloa		
2	Building 46 (Medical Detachment), Kalaeloa		
3	Building 1784 (HIARNG Staff Bldg.), Kalaeloa		
4	Building 1785 (HIARNG HQ Bldg.), Kalaeloa		
5	Building 1788 (HIARNG HQ Conference Bldg.), Kalaeloa		
6	Building 175 (HIARNG Mail Distribution Center), Kalaeloa		
7	Building 117, (USPFO/FMS 1, CSMS Low Bay Area), Kalaeloa		
8	Building 117B (CSMS 1 External Work Bay), Kalaeloa		
9	Building 1903 (FMO & Env Admin Office), Kalaeloa		
10	Building 1898 (Admin Gen. Purpose Bldg.), Kalaeloa		
11	Building 29 (Readiness Center), Kalaeloa		
12	Building 1874, Kalaeloa		
13	Building 134 (93rd CST Ready Bldg.), Kalaeloa		
14	Building 282 (Admin Gen Purpose Bldg.), Kalaeloa		
15	Building 134 (93rd CST Ready Bldg.), Kalaeloa		
16	Building 30 (Aviation Building), Kalaeloa		
	AREA II: PEARL CITY, WHEELER AFB, WAHAIWA (APRIL 21, 2021)	8:00 a.m.	12:00 noon
17	Building 829 (AASF No. 1), Wheeler AFB		
18	Building 832, C/193 Aviation Armory, Wheeler AFB		
19	Building 825, OSA Det 55, Wheeler AFB		
20	Wahiawa Armory, Kamehameha Highway, Wahiawa		
21	Regional Training Site-Maintenance Building, Waihona, Pearl City		
22	103rd Troop Comm RC Bldg. 1, Waihona, Pearl City		
23	103rd Troop Comm Band Bldg. 2, Waihona, Pearl City		
24	UTES Building 21, Waihona, Pearl City		
	AREA III: FORT RUGER, DH CRATER (APRIL 22, 2021)	9:0 a.m.	12:00 noon
25	Building 306, Diamond Head road, Honolulu		
26	Building 306A, Diamond Head Road, Honolulu		
27	Building 300/300A, 22nd Avenue, Fort Ruger, Honolulu		
28	Battery 407 Tunnel, Diamond Head Crater		

	AREA IV: WAIMANALO (APRIL 23, 2021)	10:00 a.m.	12:00 noon
29	Buildings 710, 711, 712, 713, 714, 714A, 715, 716		
	711 Tinker Road, Waimanalo		

6. Term of contract shall be from September 29, 2021 to September 28, 2022.
7. **OPTION TO RENEW:** Contract may be renewed by mutual agreement for no more than four one-year renewal periods.

CAMPAIGN CONTRIBUTIONS BY STATE AND COUNTY CONTRACTORS PROHIBITED. If awarded a contract in response to this solicitation, offeror agrees to comply with HRS §11-355, which states that campaign contributions are prohibited from a State and County government contractor during the term of the contract if the contractor is paid with funds appropriated by the legislative body between the execution of the contract through the completion of the contract.

TAX CLEARANCES FROM THE STATE DIRECTOR OF TAXATION AND INTERNAL REVENUE SERVICE. Contractors are required to provide a state and federal tax clearance as a prerequisite to entering into a public contract of \$2,500 or more. To meet this requirement, all bidders shall submit valid tax clearances with their bid proposals when the bid is \$2,500 or more.

In accordance with Act 190 Amendment to HRS 103D-310(c), required as a prerequisite to entering into a contract, the contractor shall register on the Hawaii Compliance Express web site for all tax clearances by going to <http://spo.hawaii.gov> and registering there.

A Certificate of Vendor Compliance generated from this website should be included with their bid proposal. A Compliant status is required prior to awarding the contract.

HAWAII PRODUCTS PREFERENCE. In accordance with ACT 175, SLH 2009, the Hawaii Products Preference is applicable to this solicitation. Hawaii products may be available for those items noted on the offer form. The Hawaii Products List is available on the State Procurement Office (SPO) website at <http://spo.hawaii.gov/> search for "Hawaii Product Preferences".

Offeror offering a Hawaii Product (HP) shall identify the HP on the solicitation offer pages. Any person desiring a Hawaii product preference shall have the product(s) certified and qualified if not currently on the Hawaii Products list, prior to the deadline for receipt of offer(s) specified in the procurement notice and solicitation. The responsibility for certification and qualification shall rest upon the person requesting the preference.

Persons desiring to qualify their product(s) not currently on the Hawaii Product list shall complete form SPO-38, *Certification for Hawaii Product Preference*, and submit to the Department of Defense, Contracting Officer, and provide all additional information required by the Contracting Officer no later than 4:30pm, fifteen (15) calendar days prior to the bid opening date. For each product, one form shall be completed and submitted

(i.e. 3 products should have 3 separate forms completed). The form is available on the SPO webpage at <http://spo.hawaii.gov/> search for “Forms” and select form SPO-38.

Late submittals for this project will not be reviewed by the Department.

Change in Availability of Hawaii Product

In the event of any change that materially alters the offeror’s ability to supply Hawaii Products, the offeror shall immediately notify the Contracting Officer in writing and the parties shall enter into discussions for the purposes of revising the contract or terminating the contract for convenience.

Offerors shall indicate in the Hawaii Product Schedule below whether the pre-approved Hawaii Products are offered. Offerors offering a Hawaii Product shall fill-in the quantity, unit measure, unit price and total price for the Hawaii Product they desire to be considered for preference. Products not pre-approved shall not be considered. Hawaii Products not meeting the requirements of the specification shall not be considered.

Offerors selecting the Hawaii Product preference may be required to submit additional information on the cost basis of their selected Hawaii Product preference items when requested after the bid opening to verify cost of the Hawaii Products, including the computations for the estimated quantities, manufacturer’s or supplier’s quotations, and delivered material cost Free on Board (FOB) at the jobsite. The Hawaii Product Cost shall not include installation costs.

It is further understood and agreed that:

1. The Adjutant General or his designated representative reserves the right to reject any and/or all bids and waive any defects when, in his opinion, such rejection or waiver will be in the best interest of the State.
2. The award of the contract shall be conditioned upon funds being made available for these projects and further upon the right of the Adjutant General or his designated representative to hold all bids received for a period of ninety (90) days from the date of the opening thereof, unless otherwise required by law, during which time no bid may be withdrawn.
3. The liquidated damages are being waived for this contract.
4. By submitting this proposal, the undersigned is declaring his firm has not been assisted or represented on this matter by an individual who has, in a State capacity, been involved in the subject matter of this contract in the past two years.
5. Upon the acceptance of the proposal by the Adjutant General or his designated representative, the undersigned must enter into and execute a contract for the same as required by law.
6. If the lowest bid received by the State exceeds the funds available for this project, the State reserves the right to negotiate with the lowest responsible bidder as permitted under Section 103D-302, Hawaii Revised Statutes, as amended, to reduce the scope of work and award a contract therefore.
7. This contract may be awarded as an informal contract as determined by the Adjutant General or his designated representative in accordance with the applicable Hawaii Revised Statutes as amended, whereby a purchase order will be executed and used as the formal contract.
8. It is further agreed by the parties that any portion of the Contract price payable to the Contractor out of federal funds shall be paid to the Contractor only when such federal funds are received, and this contract shall not be construed as binding the State to pay said portion out of any fund other than those which are received from the Federal government.

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

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

It is understood that failure to receive any such addendum shall not relieve the Contractor from any obligation under this Proposal as submitted. (See Special Notice to Bidders for information regarding addenda.)

Respectfully submitted,

HAWAII GENERAL EXCISE TAX

Name of Company

I.D. NO. _____

By _____
*Signature

LICENSE CLASSIFICATION
AND/OR SUBCLASSIFICATION
NO. _____

Print Name

Title _____

Date _____

Address _____

Telephone _____

(CORPORATE SEAL)

*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.

NOTE: Fill in all blank spaces with the information asked for or bid may be invalidated.
PROPOSAL PAGES MUST BE INTACT; MISSING PAGES MAY INVALIDATE YOUR BID.

SPECIFICATIONS FOR:

**HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)
EQUIPMENT PREVENTIVE MAINTENANCE SERVICE FOR VARIOUS
HAWAII ARMY NATIONAL GUARD (HIARNG) BUILDINGS AND
FACILITIES ON OAHU, JOB NO. CA-202110**

**FOR THE:
STATE OF HAWAII
DEPARTMENT OF DEFENSE**

APRIL 2021

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7. Appendix E: Sample: Equipment List, Service Maintenance Schedule (1 page)
8. Appendix F: 2016 HIARNG HVAC Equipment List (Oahu) (10 pages)
9. Appendix G: Addendum to Appendix F- List of Additional Equipment (2 pages)
10. Appendix H: Addendum to Appendix G, Additional Equipment List and Findings After the Site Walkthrough (2 pages)

I. GENERAL SCOPE

The Contractor shall furnish all necessary labor, equipment, tools, materials, and apparatus to implement the preventive maintenance service to the installed heating, ventilating, and air conditioning (HVAC) equipment for the Department of Defense (DoD), Hawaii Army National Guard (HIARNG), complete as specified herein, located at various installations as listed in Appendix-A "AIR CONDITIONING PREVENTATIVE MAINTENANCE SERVICE LOCATIONS".

II. GENERAL REQUIREMENTS AND QUALIFICATIONS

The Contractor shall be a refutable heating, ventilation, and air conditioning Contractor, with a "BC" license and holds an active C-52 specialty classification and doing business within the State of Hawaii for at least five (5) years. The Contractor shall have, at the time of bid submission, a local Office on Oahu, staffed with a minimum of two (2) qualified trained personnel.

Qualified trained personnel shall mean a Refrigeration Mechanic (RM) who will be the lead onsite technician and have a minimum five (5) years of experience working as a Journey Worker servicing and repairing 50 tons and larger chillers and 10 tons and larger DX split AC system. The qualified personnel must, each at least, have a factory or equivalent certified training, at the time of bid submission, for McQuay, and Trane chillers, from a minimum of a four-day training course. The equivalent course must be a program certified by NATE, IACET, or IBSTPI.

All qualified personnel handling CFC refrigerant shall have, at the time of bid submission, a valid Universal CFC certificate.

Bidders shall provide documents at the time of bid submission, to substantiate the qualifications, experiences, and training of its personnel for respective work to be performed. Falsification of personnel qualifications shall constitute a major breach of this contract.

The Contractor shall maintain two (2) regular assigned Refrigeration Mechanics (RM) as lead Technician, and two (2) Apprentices at the following Oahu Areas:

- Kalaeloa Area;
- Central Oahu Area (Waiawa, Wahiawa, and Schofield Barracks)
- East Oahu Area (Fort Ruger and RTI Waimanalo)

The Contractor's on-site personnel must regularly coordinate with the DoD/HIARNG Repair and Maintenance Assistants (RMA) assigned areas mentioned above.

III. DESCRIPTION OF WORK

The Contractor shall perform complete preventive maintenance services, including inspections and trouble calls for all equipment included in this contract. The service shall consist of thorough maintenance work in accordance with the best commercial practices governing the maintenance of air conditioning systems. Such service shall include regularly scheduled maintenance tasks and inspections for each unit listed herein.

The Contractor shall be responsible for all costs necessary to maintain all systems (equipment, belts, filters, insulation, etc.) for complete and satisfactory operation. The Contractor shall supply, as part of the contract cost, the following materials, equipment, and consumables:

1. Air filters
2. All types of appropriate lubricants.
3. Drive belts
4. Cleaning detergents or other environmentally safe cleaning solutions.
5. Algae growth-preventive pills/solutions.
6. Cleaning brush, mops, cloth, etc.
7. Rust remover, primer and topcoat paints.
8. Lifts required to access roof mounted fans

Prospective Bidders must visit the service areas and thoroughly familiarize themselves with existing conditions, the nature, and the extent of work to be performed. No additional compensation will be made because of any misunderstanding or negligence in thoroughly familiarizing the conditions at the service areas, the nature, and extent of work to be performed. Submission of bid shall be evidence that the bidder understands and will comply with these specifications if awarded the contract. All equipment whether listed on the schedule (Appendix F “2016 HIARNG HVAC Equipment List ” and “ Appendix G: Addendum to Appendix F”) or not, but is a component of the air conditioning system, shall be serviced.

The Contractor shall cover only such air conditioning units that are in operating condition or determined by the DoD/HIARNG Project Manager (PM), Repair and Maintenance Assistant (RMA), or Armory Facility Administrator (AFA) at the time the contract is executed.

The Contractor shall remove all trash (i.e. old filters, belts, motors, etc.), which is produced by their work required in these specifications, from the facilities’ premises, and dispose of them properly.

All maintenance services performed by the Contractor for air conditioning and ventilation systems shall include applicable items listed but not limited to the following maintenance tasks:

A. AIRHANDLER & FAN COIL UNITS

1. Monthly Services
 - a. Clean and clear all drip pans and flush all related condensate drain lines with nitrogen contractor may be liable for water damage due to clogged drains. Install pan tablets if necessary to control algae.
 - b. Change all disposable air filters at least once a month; use Farr 30/30 or equal.
 - c. Lubricate and oil all fan and motor bearings and connections of dampers and vanes.
 - d. Check all drives for wear; adjust belt tension. Replace belt as required.
 - e. Operate equipment to check for proper operation, unusual noise and vibration; adjust or repair all equipment and controls as required; clean up all equipment.
 - f. Check time clock for proper operation and time settings.
 - g. Certify performance of monthly service and correct and report all discrepancies.
2. Annual Services
 - a. Adjust alignment of bearings and sheaves; lubricate fan and motor bearings.
 - b. Replace worn or noisy bearings or sheaves.
 - c. Clean cooling coils of dirt accumulation using nitrogen, high-pressure air/water, and steam or chemical coil cleaner solution.
 - d. Check pressure and temperature differential across cooling coils and log readings.
 - e. Clean strainers, check vents and drains on chilled water coils.

- f. Clean supply and return air grilles and dampers, and repair or replace deteriorated bird screens.
- g. Clean and adjust water valves, clean strainers (chilled water) and clean all fan wheels and interior and exterior of equipment housings.
- h. Secure all loose housing, seal leaks and touch-up paint after cleaning all rust
- i. Check and calibrate all electric temperature controls.
- j. Certify performance of annual service and correct and report all discrepancies.

B. CENTRIFUGAL/SCREW TYPE, WATER-COOLED, LIQUID CHILLERS

1. Monthly Service
 - a. Check and record entering and leaving chiller water and condenser water temperatures and pressures in maintenance log.
 - b. Check and record head pressure, oil pressure and system pressure; check oil heater.
 - c. Check oil pump operation; service purge compressor and purge system. Manually rotate chillers where required.
 - d. Check for refrigerant and oil leakage; recharge system.
 - e. Adjust chilled water temperature setting for seasonal changes.
 - f. Check/adjust/calibrate the oxygen/refrigerant monitor and alarm system.
 - g. Certify monthly performance of chiller operation and maintenance service and correct and report all discrepancies.
2. Quarterly Services
 - a. Check chiller response at various load conditions for proper operation and calibration of capacity control system.
 - b. Check safety controls and purge controls; record settings.
 - c. Certify performance of quarterly service and correct and report all discrepancies.
3. Semi-Annual Service
 - a. Remove heads of condenser and internal brush tubes while cleaning the associated cooling tower. Coordinate with water treatment contractor and Project Manager.
 - b. Perform pressure tests to detect refrigerant leaks.
 - c. Check condition of insulation; repair/reinsulate properly & immediately, including any time disturbing of insulation is require to perform work, or upon discovery or notification.
 - d. Certify performance of semi-annual service and correct and report all discrepancies.
4. Annual Service
 - a. Have chiller and purge compressor oil analyzed and submit written report.
 - b. Replace oil cooler filter cartridge; change oil if recommended by analysis and per manufacturer's recommendations. Dispose of oil as specified.
 - c. Check refrigerant; replace filter-drier.
 - d. Inspect purge compressor and drum; clean and replace wearing parts
 - e. Electronic leak test entire system and repair leaks.
 - f. Megger chiller and oil pump motors and submit written report of readings; check relay contacts and electrical connections.
 - g. Test operate control switches; unloaders, safeties; calibrate and record settings.
 - h. Clean and remove all dust and foreign matter. Clean all rust spots and scratches and touch up paint with matching color, immediately upon discovery or notification.
 - i. Certify performance of annual service, report and correct all discrepancies. Submit maintenance report in writing for each unit.

C. COOLING TOWER

1. Monthly Service
 - a. Check and adjust water make-up float valve and bleed rate.
 - b. Check general condition of tower interior and water distribution pattern.
 - c. Check and lubricate motor and fan bearings.
 - d. Check all drives for wear; adjust belt tension. Replace belts or sheaves as required.
 - e. Remove foreign material from inside the tower.
 - f. Check for leaks, patch, correct or repair **immediately upon discovery or notification**.
 - g. Certify performance of monthly maintenance service and correct and report all discrepancies.
2. Semi-Annual Service
 - a. Drain, clean and flush tower; coordinate with water treatment contractor and the project manager.
 - b. Clean condenser suction screen, drift eliminators, spray nozzles and vacuum basin residue.
 - c. Certify semi-annual cleaning of towers and correct and report all discrepancies.

D. WATER TREATMENT SERVICE FOR COOLING TOWER

1. Bidder may subcontract for the chemicals and water treatment service which shall be provided under this contract by a qualified water treatment company experienced in the business of servicing air conditioning water systems.

E. VENTILATING FANS (Exhaust and Supply)

1. Semiannual Services
 - a. Clean fan wheels and housings of dust, dirt, and grease.
 - b. Check back-draft dampers for proper operation; lubricate linkage for free movement.
 - c. Lubricate fan motors and bearings.
 - d. Check belt wear and tension; adjust or replace as needed.
 - e. Check sheaves for wear, replace as needed.
 - f. Check fan collar, bearings and shaft for wear, repair or replace as needed.
 - g. Certify performance of quarterly service and correct and report all discrepancies.

F. WATER PUMPS

1. Quarterly Services
 - a. Lubricate and check pump and motor bearings for abnormal temperature and unusual noise or vibration and repair as needed.
 - b. Check packing glands and seals for excessive leakage. Adjust, tighten or replace as required.
 - c. Certify performance of quarterly service and correct and report all discrepancies.
2. Semiannual Services
 - a. Check and blow down strainer to chilled water pumps. Remove and clean strainer if excessive debris is noted.
 - b. Check conditions of insulation, reinsulated as necessary.
 - c. Log suction and discharge pressures.
 - d. Clean and remove all dust and foreign matter. Clean all rust spots and scratches and touch up paint with matching color.
 - e. Check motor coupling for alignment; secure mounting bolts.

- f. Certify performance of semi-annual service and correct and report all discrepancies.

G. TEMPERATURE CONTROLS

- 1. Quarterly Services
 - a. Check control devices for proper operation, sticking stems, and calibration; repair/replace weak or broken springs and all other parts.
 - b. Adjust thermostat to maintain 75 degrees F room temperature.
 - c. Certify performance of quarterly service and correct and report all discrepancies.

H. AIR-COOLED CHILLERS

- 1. Monthly Service
 - a. Check and record entering and leaving water temperatures and pressures of chilled water in "Maintenance Report".
 - b. Check and record refrigerant compressor suction and discharge and oil pressures.
 - c. Visual check for water, refrigerant and oil leakage; correct or repair as required. Check vibration isolator mounts.
 - d. Check compressor, fan, and motor bearings for abnormal temperature and unusual noise; lubricate and/or replace as required.
 - e. Adjust chilled water temperature setting for seasonal change.
 - f. Check compressor oil level and add oil as required.
 - g. Check condenser fan belt and tension, adjust, or replace as required.
 - h. Adjust alignment of bearings and sheaves for fans, motors, and compressors, and replace worn or noisy bearings or sheaves.
 - i. Note and run system operation through complete operating cycle and adjust for proper operation.
 - j. Certify performance of monthly service and correct and report all discrepancies.
- 2. Quarterly Services
 - a. Check chiller response at various cooling load conditions for proper operation and calibration of capacity control system.
 - b. Check operation of freeze stat and oil failure switch; record settings.
 - c. Test and adjust "make-up" water and expansion tank.
 - d. Clean condenser coils with water washer, steam or surfactant chemical coil cleaner (alkaline or acidic cleaners not allowed).
 - e. Certify performance of quarterly service and correct and report all discrepancies.
- 3. Semiannual Services
 - a. Remove heads of condenser and internally brush tubes.
 - b. Certify performance of semi-annual service and correct and report all discrepancies.
- 4. Annual Service
 - a. Have compressor crankcase oil analyzed and submit written report. Replace strainer and oil filter; change oil if recommended by analysis and per manufacturer's recommendations.
 - b. Check refrigerant; replace filter-drier.
 - c. Megger (electrical test to measure wire insulation resistance, i.e. condition)

- Chiller/compressor motor; check starter relay and control contacts and electrical connections for tightness and clean as required.
- d. Test and operate control switches, compressor unloading and safeties; calibrate and record settings. Adjust as required.
- e. Check and clean all unit housings (inside and outside and components), seal leaks and remove rust from exterior components and touch-up paint with match color, immediately upon discovery or notification.
- f. Check condition of insulation; repair/re-insulate properly & immediately, including any time disturbing of insulation is require to perform work, or upon discovery or notification.
- g. Submit and certify performance of annual service and correct and report in writing to the AFA all discrepancies.

I. PACKAGE OR SPLIT DX AIR-COOLED AIR CONDITIONER

1. Monthly Service
 - a. Perform the tasks in item A “Air Handler and Fan Coil Units”
 - b. Check and record refrigerant compressor suction and discharge and oil pressures.
 - c. Visual check for refrigerant and oil leakage; correct or repair as required.
 - d. Check compressor, fan, and motor bearings for abnormal temperature and unusual noise; lubricate and/or replace as required.
 - e. Check compressor oil level and add oil as required.
 - f. Check condenser fan belt and tension, adjust, or replace as required.
 - g. Adjust alignment of bearings and sheaves for fans, motors, and compressors, and replace worn or noisy bearings or sheaves.
 - h. Note and run system operation through complete operating cycle and adjust for proper operation.
 - i. Certify performance of monthly service and correct and report all discrepancies.
2. Quarterly Service
 - a. Clean condenser coils with water washer, steam or surfactant chemical coil cleaner (alkaline or acidic cleaners not allowed).
 - b. Certify performance of quarterly service and correct and report all discrepancies.
3. Annual Service
 - a. Perform the tasks in item A “Air Handler and Fan Coil Units”
 - b. Check refrigerant; replace filter-drier.
 - c. Megger (electrical test to measure wire insulation resistance, i.e. condition) compressor motor; check starter relay and control contacts and electrical connections for tightness and clean as required.
 - d. Test and operate control switches, compressor unloading and safeties; calibrate and record settings. Adjust as required.
 - e. Check and clean all unit housings (inside and outside and components), seal leaks and remove rust from exterior components and touch-up paint with match color, immediately upon discovery or notification.
 - f. Check condition of insulation; repair/re-insulate properly & immediately, including any time disturbing of insulation is require to perform work, or upon discovery or notification.
 - g. Run and check units operation and controls through complete cycle; record temperature and setting when compressor cuts in.
 - h. Certify performance of quarterly maintenance service and correct and report all

discrepancies.

J. DEHUMIDIFIER

1. Monthly Service
 - a. Remove and clean drip tray and condensate drain pan.
 - b. Clean/unclog condensate drain pipes.
 - c. Check operation of condensate pump. Lubricate bearing.
 - d. Operate equipment and observe unusual noise, vibrations, and other minor defects. Make adjustments as required to keep unit in good operating condition.

K. STANDBY AND LEAD-LAG EQUIPMENT (Pumps, Chillers, Cooling Towers, etc.) AND TIME CLOCKS

1. Monthly Service
 - a. The Contractor shall be responsible for the operational changeover of all lead-lag-standby equipment.
 - b. Clean contacts, replace if necessary; check and adjust time settings as directed or required.
 - c. Certify that all discrepancies are reported and corrected.
2. Annual Service
 - a. Check time clocks for proper operation and set time clock operation as directed by the Project Manager.

L. VALVES, EQUIPMENT AND SUPPORTS

1. Annual Service
 - a. The Contractor shall exercise all equipment shut-off valves annually for proper operation and tightness.
 - b. Wire brush, prime and paint rust from pipe, equipment and support surface to prevent further rusting.
 - c. Certify that all discrepancies are reported and corrected.

B. CLEANING OF MECHANICAL EQUIPMENT ROOMS/ENCLOSURES

1. Monthly Services
 - a. Vacuum or wipe clean, all equipment surfaces and all related appurtenance.
 - b. Vacuum clean or sweep entire floor.
 - c. Wet wash complete floor area with tap water where allowed. Remove all used, deteriorated, replace, discarded parts and related debris. CAUTION: DO NOT splash water onto the electrical and mechanical equipment.
 - d. Notify the RMA or AFA of any dangerous conditions, improper storage of furniture, materials, and supplies, inside mechanical equipment rooms/enclosures that may prevent or hinder the Contractor's personnel from performing work.

C. AIR SUPPLY AND RETURN GRILLES

1. Quarterly Services
 - a. Remove dust on air supply and return grilles with the use of wiping cloth, brush, or vacuum cleaner. Clean heavily soiled grilles with water and environment-safe detergent.

IV. SPECIAL REPORTS

Within ninety (90) calendar days after the award of the contract, the Contractor shall verify the information in the Microsoft Excel spreadsheet entitled "2021 HIARNG AC Equipment List.xlsx" and resubmit the revised spreadsheet to the DoD/HIARNG Project Manager.

The Excel spreadsheet shall show brand/model numbers, serial numbers, actual location of equipment, as well as filter and belt information (i.e. type and quantity) for the equipment serviced.

The Contractor shall also submit an annual updated inventory of equipment both as a Microsoft Excel spreadsheet and a hardcopy during the contract period.

V. WORK SCHEDULE

All regular maintenance work shall be performed between the hours of 7:00 a.m. and 4:00 p.m., on normal working days, Monday through Friday, excluding State Holidays.

Quarterly maintenance tasks shall be performed on the fourth, seventh and tenth month of the one-year period on normal working days or as coordinated by the Project Manager.

Semiannual maintenance tasks shall be performed on the sixth month of the one-year period on normal working days or as coordinated by the Project Manager.

Annual maintenance tasks shall be performed on the final month of the one-year period, on normal working days or as coordinated by the Project Manager.

The Contractor shall provide a maintenance schedule to the Project Manager and area RMA with a 72 hour advance notice for the various service locations including day and month when they will be at each service location.

All work performed by the Contractor shall be subject to inspection by the Project Manager, RMA, or AFA. The Contractor shall be informed of all deficiencies found by the Project Manager or RMA. The Contractor shall correct all deficiencies within five (5) working days.

VI. MAINTENANCE REPORT/CHECKLIST

The Contractor shall provide a maintenance report/checklist for each item serviced and have it signed by the RMA, AFA or Project Manager on the same day of PM Service completed. A sample maintenance report/checklist is given in Appendix-C. The report/checklist shall include the following:

1. Date maintenance service was performed.
2. The name of the JRM who performed the maintenance.
3. The type and cost (labor, materials, parts and equipment) of repair work performed on the unit, if any.
4. Documents and other data pertaining to the maintenance performed.

VII. EMERGENCY SERVICE AND REPAIR

The services required for all equipment under this contract shall be for maintenance services only. However, because the equipment may require repairs on an emergency basis, Contractor shall provide these repairs if requested by the Project Manager. The cost for such emergency repairs shall be handled as a separate cost, not as part of this contract. It shall be understood and agreed that the DoD shall not be obligated under this

contract to call the Contractor for emergency repairs but the Contractor shall respond and provide emergency repairs if and when requested by the DoD.

Service calls for water leaks in the ceiling, which may be associated with the condensate drain system shall be at no charge. The Contractor shall clear system, if related to condensate drainage.

The Contractor shall respond to the DoD's request for emergency repairs within two and one-half (2-1/2) hours after such request is made to the Contractor. All emergency repair work shall be completed in a reasonable time as determined by the AFA or an authorized representative. Response time shall mean the time the Contractor is physically at the site of the air conditioning units needing repair from the time the Contractor is notified.

Emergency service and repairs required between regular service calls shall be rendered within 24 hours after the Contractor is notified, non-work days excluded.

VIII. INCLUSION OF NEW OR REPLACEMENT EQUIPMENT INTO THE PM AGREEMENT

The Contractor shall provide preventive maintenance (PM) services on replaced air conditioning units under the requirements of the new equipment warranty. The Project Manager will provide a copy of the warranty to the Contractor when air conditioning units are installed. Preventive maintenance services for replacement of air conditioning units covered under this contract will be at no additional cost to the DoD.

The Contractor shall submit a proposal for preventive maintenance services for any new HVAC equipment (ie packaged or central air conditioning units) where none were previously installed. If the DoD is agreeable to the costs, the servicing of the equipment will be a supplement to the contract. Appendix B "AIR CONDITIONING PREVENTIVE MAINTENANCE FUTURE SERVICE LOCATIONS" contains a list of facilities that may have additional equipment for service.

IX. REMOVAL OF CONTRACTOR'S EMPLOYEES

The Contractor agrees to remove any of its employees from services rendered and to be rendered upon request in writing by the DoD.

In the event the Contractor fails, neglects, or refuses to comply with the requirements herein, the DoD shall have in addition to any recourse, the right to terminate the contract without service of notice or resort to legal process and without any legal liability on its part. Any loss of anticipated profits from such termination shall not constitute grounds for equitable adjustment under this contract.

X. CLEANUP AND WORK PRACTICES

The Contractor shall keep the job site free of debris, litter, discarded parts, etc. and shall clean all oil drippings during the daily progress of work. The Contractor shall remove all tools, parts, and equipment from the service areas upon completion of the work.

The Contractor shall exercise caution during the progress of the maintenance and repair work to prevent damages to the ceilings, roofing and other building structure. Restore all

damages, caused by negligence, to its original condition at the Contractor's own expense.

XI. SAFETY PRECAUTIONS

The Contractor is not to perform maintenance and repair work until all switches are de-energized, locked, and tagged. The Contractor shall comply with all applicable safety regulations promulgated by OSHA, EPA and other governmental agencies.

In cases of work to be performed on roof top with high risk of accidents, all workers must wear personnel harness that must be securely attached to the lifeline/s. Lifelines must be attached securely to any fixed structural members of the building. **NOTE:** When performing preventive maintenance service on roof mounted fans and other equipment, the Contractor shall always take extra precautions not to damage the existing roof panels. It will be the Contractor's responsibilities to repair and pay for the repair of any part of the roof damaged during the service.

Safety signs, warning signs, and barricades shall be posted/placed at areas where necessary.

The Contractor's Workers shall at all times, during the preventive maintenance service, wear the required Personnel Protective Equipment such as eye protector, ear plugs, work gloves, safety shoes, safety vests, respirator, head guard/helmet, and others, which are appropriate for the work activities being performed.

XII. SUBMITTALS

1. Submit Certificates that the Journeymen Refrigeration Mechanics (JRM) who will be assigned to perform the preventive maintenance work are qualified and have a minimum of three (3) years related experience.
2. Within fourteen (14) working days after the award of this contract, the Contractor shall submit in writing to the Project Manager a proposed Maintenance Checklist/Report Form (Appendix C and D) and a service maintenance schedule (Appendix E) all in sufficient detail to show its adequacy in carrying out the terms of this contract.
3. Before the start of service, submit a Work and Safety Program for approval.
4. Contractor shall submit to the Project Manager, a list of names of JRM and Apprentice/Helper, to include the names of alternate Personnel.
5. Contractor shall submit to the Project Manager, the brand/model and licensed plate numbers of the Company vehicles that will be used in the performance of the service.

XIII. "LITTLE" DAVIS-BACON ACT (HRS CHAPTER 104)

If it shall be required, this project shall be covered by the "Little" Davis-Bacon Act (HRS 104) and shall follow its mandate that all Workers who are "direct cost contributors" to the project shall be paid the basic wage rate plus fringe benefits based on their "Classifications", as listed on the latest Hawaii Wage Rate Schedule. If it shall be required, Certified Payroll/s shall be submitted by the Contractor together with the billing invoice/s for the billed work period.

Wages and fringe benefits of Workers who are members of any legitimate Workers Union in Hawaii must not be less than the wages and fringe benefits shown on the latest State of Hawaii Wage Rate Schedule based on the Workers' classification.

APPENDIX-A: AIR CONDITIONING PREVENTATIVE MAINTENANCE SERVICE
LOCATIONS

Bid Item No.	Facility/Location
1	Building 19 (JFHQ, HHD Admin Bldg), Kalaeloa
2	Building 46 (Medical Detachment), Kalaeloa
3	Building 1784 (HIARNG Staff Bldg), Kalaeloa
4	Building 1785 (HIARNG HQ Bldg), Kalaeloa
5	Building 1788 (HIARNG HQ Conf Rm), Kalaeloa
6	Building 1898 (Admin Gen Purp Bldg), Kalaeloa
7	Building 117.(Bravo Co., USPFO, FMS 1)Kalaeloa
8	Building 117B (CSMS#1 External Work Bay), Kalaeloa
9	Building 663 (CSMS #1 Admin Bldg), Kalaeloa
10	Building 282 (Admin Gen Purpose Bldg), Kalaeloa
11	Building 134 (93d CST Readiness Bldg), Kalaeloa
12	Building 29 (Brigade Readiness Center), Kalaeloa
13	Building 1903 (Environmental Admin Office), Kalaeloa
14	Building 175 (HIARNG Mail Distribution Center) Kalaeloa
15	Regional Training Site-Maintenance, 96-1230 Waihona St., Pearl City
16	Waiawa Armory, 103rd Troop Command (B001), 96-1210 Waihona St., Pearl City
17	Waiawa Armory, Band Building (B002), 96-1210 Waihona St., Pearl City
18	UTES (Building 21); 96-1210 Waihona St., Pearl City
19	Building 829, Army Aviation Support Facility #1, Wheeler AAF, Wahiawa
20	Building 832, C/193 Aviation Armory, Wheeler AAF, Wahiawa
21	Building 825, OSA Det 55, Wheeler AAF, Wahiawa
22	Wahiawa Armory, 77-230 Kamehameha Highway, Wahiawa
23	RTI Classrooms Bldg. 710, Bellows AFS
24	RTI Administrative Bldg. 711, Bellows AFS
25	RTI Dining Facility Bldg. 712, Bellows AFS
26	RTI Auditorium Bldg. 713, Bellows AFS
27	RTI Army Lodging #1 Bldg. 714, Bellows AFS
28	RTI Physical Fitness/Laundry Bldg. 715, Bellows AFS
29	RTI Army Lodging #2 Bldg. 716, Bellows AFS
30	Building 300, 22nd Avenue, Fort Ruger, Honolulu
31	Building 300A, 22nd Avenue, Fort Ruger, Honolulu
32	Building 306, 3949 Diamond Head Road, Honolulu
33	Building 306A, 3949 Diamond Head Road, Honolulu
34	Battery Tunnel 407, Diamond Head Crater
35	Building 30 (Aviation/Hangar Building), Kalaeloa
36	Building 1874 (Aviation Units Building), Kalaeloa
37	Building 714A (RTI EST/Pavilion), Bellows AFS

APPENDIX-B: AIR CONDITIONING PREVENTATIVE MAINTENANCE FUTURE
SERVICE LOCATIONS

Item No.	Facility/Location
1	Battery Tunnel 407, Diamond Head Crater: Proposed Project to replace existing HVAC
2	Building 282, Kalaeloa: Possible installation of additional Split Type AC units
3	Building 306A: Proposed conversion from split types to centralized system
4	Building 1874, Kalaeloa: Possible additional units for still unoccupied areas
5	Building 19, Kalaeloa: Possible conversion of storage area to Central Gym
6	Building 300, Diamond Head: Possible additional HVAC upgrade projects
7	Building 832, Schofield Barracks: Possible additional AC units for new Unit transfers
8	Building 186, Kalaeloa: Possible conversion CERFP Controlled Temperature Storage
9	Building 29/Phase 2, Kalaeloa: Project may be completed between 2024-2025

APPENDIX-C: SAMPLE: MAINTENANCE REPORT/CHECKLIST

[illegible]

APPENDIX-D: SAMPLE: OPERATIONAL PERFORMANCE TESTS

Facility: _____

Date: _____

A/C Equipment Description and Information:

Qty	Tag	Equip.	Manuf.	Model No.	Capacity	Area Serv.	Location

Remarks:

TEST DATA:

CHILLERS	1	2	3	4	5	6
Chilled Water Supply Temperature						
Chilled Water Return Temperature						
Chilled Water Pump Discharge Pressure						
Chilled Water Pump Suction Pressure						
Chilled Water Pump Static Pressure						

COMPRESSORS	1		2		3		4	
Capacity Reduction	RLA	Ref Press	RLA	Ref Press	RLA	Ref Press	RLA	Ref Press
Full Load								
75%								
50%								
25%								

AIR HANDLING UNITS	1	2	3	4	5	6	7	8
Supply Air Temperature								
Return Air Temperature								
Differential Air Pressure								
Chilled Water Supply Temperature								
Chilled Water Return Temperature								
Chilled Water Supply Pressure								
Chilled Water Return Pressure								

FAN COIL UNITS	1	2	3	4	5	6	7	8
Supply Air Temperature								
Return Air Temperature								
Differential Air Pressure								
Chilled Water Supply Temperature								
Chilled Water Return Temperature								
Chilled Water Supply Pressure								
Chilled Water Return Pressure								

APPENDIX-E: SAMPLE: EQUIPMENT LIST, SERVICE MAINTENANCE SCHEDULE

QTY	DESCRIPTION	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	AIR COOLED PACKAGE CHILLER												
2	Check overall condition of unit	X											
	CHILLWATER AIR HANDLER UNIT(S)												
25	Check overall condition of unit	X											
	CHILLWATER PUMPS												
2	Check overall condition of unit	X											
	VENTILATION EQUIPMENT EXHAUST FAN and SUPPLY AIR FAN												
2	Check overall condition of unit	X											
	DEHUMIDIFIER INDOOR UNITS												
2	Check overall condition of unit	X											
	DEHUMIDIFIER OUTDOOR UNITS												
2	Check overall condition of unit	X											

Notes: Contractor shall adjust contents of APPENDIX-C, D & E sample forms for PM Service and schedule.

APPENDIX F- 2016 HIARNG HVAC EQUIPMENT LIST (OAHU)

Information to be completed/ verified by Contractor as part of contract. Exhaust fans highlighted in red will require a lift to service unit on the roof.

Equipment Item #	Bldg.	Location	Description	Qty.	Building Location	Make	Model	Serial	Filter (Model no, Qty)	Belt (Model No, Qty)
1	19	Kalaeloa	Roof Top Packaged Unit	2	Rooftop				20x24x2 Qty 4	Qty 1
2	19	Kalaeloa	Roof Top Packaged Unit	3	Rooftop				16x20x2 Qty 1	D/D
3	19	Kalaeloa	Roof Top Packaged Unit (PACU 3) Office Orderly	1	Rooftop				12x24x2 Qty 6	Qty 1
4	19	Kalaeloa	Mini Split System	4						
5	19	Kalaeloa	EF-1	1	Kitchen Hood					
6	19	Kalaeloa	EF-2	1	Dishwasher Hood					
7	19	Kalaeloa	EF-3	1	Griddle Hood					
8	19	Kalaeloa	EF-4	1	Sanitizing Sink Hood					
1	46	Kalaeloa	Chiller	1		Carrier	30HL050E511	4805Q05808		
2	46	Kalaeloa	AHU	1		Carrier	39MN40B005C7612XXS	0206V01014	20-16X25X2	
3	46	Kalaeloa	CHW Pump	1			3X25X6 428	C530095	12-16X20X2	
4	46	Kalaeloa	Remote condensor	1		Carrier	39MN40B005C2711XXS	0206V01014	6-16X25X2	
1	1784	Kalaeloa	AHU	1	Rm. 101	Carrier	42VE038LDY5APYM	945921-20-1	1-7X26 3/4X1	D/D
2	1784	Kalaeloa	FCU	1	Rm. 101A		03BR	10-33	1-7X26 3/4X1	D/D
3	1784	Kalaeloa	FCU	1	Rm. 101B		03BR	10-7	1-7X26 3/4X1	D/D
4	1784	Kalaeloa	FCU	1	Rm 101C		03BL	20-6	1-7X26 3/4X1	D/D
5	1784	Kalaeloa	FCU	1	Rm. 101D		03BL	20-10	1-7X26 3/4X1	D/D
6	1784	Kalaeloa	FCU	1	Rm. 103		03BR	10-5	1-7X26 3/4X1	D/D
7	1784	Kalaeloa	FCU	1	Rm. 103A		03BR	10-4	1-7X26 3/4X1	D/D
8	1784	Kalaeloa	FCU	1	Rm. 103B		03BR	10-21	1-7X26 3/4X1	D/D
9	1784	Kalaeloa	FCU	1	Rm. 103C		03BL	20-23	1-7X26 3/4X1	D/D
10	1784	Kalaeloa	FCU	1	Rm. 103D		03BL	20-10	1-7X26 3/4X1	D/D
11	1784	Kalaeloa	FCU	1	Rm. 102		03BL	20-16	1-7X26 3/4X1	D/D
12	1784	Kalaeloa	FCU	1	Rm 102A		03BR	10-3	1-7X26 3/4X1	D/D
13	1784	Kalaeloa	FCU	1	Rm. 102B		03BR	10-15	1-7X26 3/4X1	D/D
14	1784	Kalaeloa	FCU	1	Rm. 102C		03BL	20-15	1-7X26 3/4X1	D/D
15	1784	Kalaeloa	FCU	1	Rm 102D		03BR	10-19	1-7X26 3/4X1	D/D
16	1784	Kalaeloa	FCU	1	Rm. 103		03BR	10-5	1-7X26 3/4X1	D/D
17	1784	Kalaeloa	FCU	1	Rm. 103A		03BR	10-4	1-7X26 3/4X1	D/D
18	1784	Kalaeloa	FCU	1	Rm. 103B		03BR	10-21	1-7X26 3/4X1	D/D
19	1784	Kalaeloa	FCU	1	Rm. 103C		Locked		1-7X26 3/4X1	D/D
20	1784	Kalaeloa	FCU	1	Rm. 103D		Locked		1-7X26 3/4X1	D/D
21	1784	Kalaeloa	FCU	1	Rm. 104		03BR	10-32	1-7X26 3/4X1	D/D
22	1784	Kalaeloa	FCU	1	Rm. 104A		Renovation		1-7X26 3/4X1	D/D
23	1784	Kalaeloa	FCU	1	Rm. 104B		Renovation		1-7X26 3/4X1	D/D
24	1784	Kalaeloa	FCU	1	Rm. 104C		03BL	20-21	1-7X26 3/4X1	D/D
25	1784	Kalaeloa	FCU	1	Rm. 140D		03BL	20-21	1-7X26 3/4X1	D/D
26	1784	Kalaeloa	FCU	1	Rm. 105		03BR	10-35	1-7X26 3/4X1	D/D
27	1784	Kalaeloa	FCU	1	Rm 105A		03BR	10-20	1-7X26 3/4X1	D/D
28	1784	Kalaeloa	FCU	1	Rm. 105B		03BR	10-25	1-7X26 3/4X1	D/D
29	1784	Kalaeloa	FCU	1	Rm. 105C		03BL	20-11	1-7X26 3/4X1	D/D
30	1784	Kalaeloa	FCU	1	Rm. 105D		03BL	20-2	1-7X26 3/4X1	D/D
31	1784	Kalaeloa	FCU	1	Rm 201		03BL	20-26	1-7X26 3/4X1	D/D
32	1784	Kalaeloa	FCU	1	Rm. 201A		03BR	10-16	1-7X26 3/4X1	D/D
33	1784	Kalaeloa	FCU	1	Rm. 201B		03BR	10-22	1-7X26 3/4X1	D/D
34	1784	Kalaeloa	FCU	1	Rm. 201C		03BL	10-7	1-7X26 3/4X1	D/D
35	1784	Kalaeloa	FCU	1	Rm. 201D		03BL	20-3	1-7X26 3/4X1	D/D
36	1784	Kalaeloa	FCU	1	Rm 202		03BL	20-30	1-7X26 3/4X1	D/D
37	1784	Kalaeloa	FCU	1	Rm. 202A		03BR	10-34	1-7X26 3/4X1	D/D
38	1784	Kalaeloa	FCU	1	Rm. 202B		03BR	10-9	1-7X26 3/4X1	D/D
39	1784	Kalaeloa	FCU	1	Rm. 202C		03BL	20-28	1-7X26 3/4X1	D/D
40	1784	Kalaeloa	FCU	1	Rm. 202D		03BL	20-27	1-7X26 3/4X1	D/D
41	1784	Kalaeloa	FCU	1	Rm. 203		03BR	10-23	1-7X26 3/4X1	D/D
42	1784	Kalaeloa	FCU	1	Rm. 203A		03BR	10-12	1-7X26 3/4X1	D/D
43	1784	Kalaeloa	FCU	1	Rm. 203B		03BR	10-31	1-7X26 3/4X1	D/D
44	1784	Kalaeloa	FCU	1	Rm. 203C		03BR	10-28	1-7X26 3/4X1	D/D
45	1784	Kalaeloa	FCU	1	Rm. 203D		03BL	20-5	1-7X26 3/4X1	D/D
46	1784	Kalaeloa	FCU	1	Rm. 204		03BR	10-8	1-7X26 3/4X1	D/D
47	1784	Kalaeloa	FCU	1	Rm. 204A		03BR	10-11	1-7X26 3/4X1	D/D
48	1784	Kalaeloa	FCU	1	Rm. 204B		03BR	10-10	1-7X26 3/4X1	D/D
49	1784	Kalaeloa	FCU	1	Rm. 204C		03BL	20-17	1-7X26 3/4X1	D/D
50	1784	Kalaeloa	FCU	1	Rm. 204D		03BR	10-31	1-7X26 3/4X1	D/D
51	1784	Kalaeloa	FCU	1	Rm. 205		03BR	10-37	1-7X26 3/4X1	D/D
52	1784	Kalaeloa	FCU	1	Rm. 205A		03BR	10-14	1-7X26 3/4X1	D/D
53	1784	Kalaeloa	FCU	1	Rm. 205B		03BR	10-18	1-7X26 3/4X1	D/D
54	1784	Kalaeloa	FCU	1	Rm. 205C		03BL	20-24	1-7X26 3/4X1	D/D
55	1784	Kalaeloa	FCU	1	Rm 205D		03BL	20-9	1-7X26 3/4X1	D/D
56	1784	Kalaeloa	FCU	1	Rm 302		03BL	20-4	1-7X26 3/4X1	D/D
57	1784	Kalaeloa	FCU	1	Rm. 302A		03BR	10-27	1-7X26 3/4X1	D/D

Equipment Item #	Bldg.	Location	Description	Qty.	Building Location	Make	Model	Serial	Filter (Model no, Qty)	Belt (Model No, Qty)
58	1784	Kalaeloa	FCU	1	Rm. 302B		03BR	10-17	1-7X26 3/4X1	D/D
59	1784	Kalaeloa	FCU	1	Rm. 302C		03BL	20-20	1-7X26 3/4X1	D/D
60	1784	Kalaeloa	FCU	1	Rm. 302D		03BL	20-25	1-7X26 3/4X1	D/D
61	1784	Kalaeloa	FCU	1	Rm. 303		03BR	10-19	1-7X26 3/4X1	D/D
62	1784	Kalaeloa	FCU	1	Rm. 303A		03BR	10-13	1-7X26 3/4X1	D/D
63	1784	Kalaeloa	FCU	1	Rm. 303B		03BR	10-30	1-7X26 3/4X1	D/D
64	1784	Kalaeloa	FCU	1	Rm. 303C		03BL	20-12	1-7X26 3/4X1	D/D
65	1784	Kalaeloa	FCU	1	Rm. 303D		03BL	20-14	1-7X26 3/4X1	D/D
66	1784	Kalaeloa	FCU	1	Rm. 304		03BR	10-24	1-7X26 3/4X1	D/D
67	1784	Kalaeloa	FCU	1	Rm. 304A		03BR	10-2	1-7X26 3/4X1	D/D
68	1784	Kalaeloa	FCU	1	Rm. 304B		03BR	10-6	1-7X26 3/4X1	D/D
69	1784	Kalaeloa	FCU	1	Rm. 304C		03BR	20-17	1-7X26 3/4X1	D/D
70	1784	Kalaeloa	FCU	1	Rm. 304D		03BL	20-8	1-7X26 3/4X1	D/D
71	1784	Kalaeloa	FCU	1	Rm. 305		03BR	10-1	1-7X26 3/4X1	D/D
72	1784	Kalaeloa	FCU	1	Rm. 305A		Locked		1-7X26 3/4X1	D/D
73	1784	Kalaeloa	FCU	1	Rm. 305B		03BR	10-26	1-7X26 3/4X1	D/D
74	1784	Kalaeloa	FCU	1	Rm 305C		03BL	20-32	1-7X26 3/4X1	D/D
75	1784	Kalaeloa	FCU	1	Rm. 305D		03BL	20-33	1-7X26 3/4X1	D/D
1	1785	Kalaeloa	AHU	4						
2	1785	Kalaeloa	Mini Split	1		Mitsubishi				
1	1788	Kalaeloa	Air cooled Chiller #1	1	Outside	Carrier	30RBA1206	5105Q80630	NA	NA
2	1788	Kalaeloa	CHW pump	2			NA	NA		
3	1788	Kalaeloa	FCU	1		Carrier	42VBA04BLCY54PYM	955181-30-1	1-7 3/4X 31 3/4X 1	D/D
4	1788	Kalaeloa	FCU	1		Carrier	42VBA04BRCY5APYM	955181-10-1	1-7 3/4X 43 3/4X 1	D/D
5	1788	Kalaeloa	FCU	1		Carrier	42VBA08BLCY5APYM	955181-30-1	1-7 3/4X 31 3/4X 1	D/D
6	1788	Kalaeloa	EF-2	4						
1	1898	Kalaeloa	Air Cooled Chiller #1	1	Outside	McQuay	AGZ080DHSNN-ER10		NA	NA
2	1898	Kalaeloa	CHWP	2	Outside					
3	1898	Kalaeloa	Air Compressor		East Mech. Rm.					
4	1898	Kalaeloa	AHU-1	1	East Mech. Rm.	Carrier		3235T34248	6-24X24X2	1-BX38
5	1898	Kalaeloa	AHU-2	1	East Mech. Rm.	Carrier		3285T33246	15-24X24X2	2-5VX710
6	1898	Kalaeloa	AHU-3	1	East Mech. Rm.	Carrier		328ST33258	8-24X24X2	1-BX38
7	1898	Kalaeloa	AHU-4	1	East Mech. Rm.	Carrier			8-24X24X2	2-AX36
8	1898	Kalaeloa	AHU-5	1	East Mech. Rm.	Carrier		3285T33255	15-24X24X2	3-BP90
9	1898	Kalaeloa	AHU-6	1	West Mech. Rm.	Carrier		3285T33244		
10	1898	Kalaeloa	AHU-7	1	West Mech. Rm.	Carrier		3285T33253		
11	1898	Kalaeloa	AHU-8	1	West Mech. Rm.	Carrier		3285T33245		
12	1898	Kalaeloa	Exhaust Fan	13						
1	117	Kalaeloa	Air Cooled Chiller #1 (CH-1)	1	Outside	Trane	RTAA1004YR0143C0QB	U05G02194		
2	117	Kalaeloa	Air Cooled Chiller #2 (CH-2)	1	Outside	Trane	RTAA1004YR0143C0QB	U05G02195		
3	117	Kalaeloa	CHWP	2	Outside					
4	117	Kalaeloa	AHU			Trane			20x25x2 (10)	Qty 2
5	117	Kalaeloa	AHU			Trane			16x25x2 (1) 20x25x2 (1)	Qty 1
6	117	Kalaeloa	AHU1- AHU23	23		Trane			2 EA AHU w/ 1 EA air filter and no belt 21 EA AHU w/ 2 EA air filter and 1 EA belt	
7	117	Kalaeloa	Dehumidifier (DH-C-1)	1	VAULT C128					
8	117	Kalaeloa	Dehumidifer Remote Condenser (DRC-C-1)	1	VAULT C128					
9	117	Kalaeloa	Dehumidifier (DH-C-2)	1	UNIT STORAGE C130					
10	117	Kalaeloa	Dehumidifer Remote Condenser (DRC-C-2)	1	UNIT STORAGE C130					
11	117	Kalaeloa	Dehumidifier (DH-A-1)	1	ARMS VAULT A149					
12	117	Kalaeloa	Dehumidifer Remote Condenser (DRC-A-1)	1	ARMS VAULT A149					
13	117	Kalaeloa	EF-A-1 CENTRIFUGAL ROOF UPBLAST	1	P&C WAREHOUSE A156G					
14	117	Kalaeloa	EF-A-2 CENTRIFUGAL ROOF UPBLAST	1	P&C WAREHOUSE A156G					
15	117	Kalaeloa	EF-A-3 CENTRIFUGAL ROOF UPBLAST	1	P&C WAREHOUSE A156G					
16	117	Kalaeloa	EF-A-4 CENTRIFUGAL ROOF UPBLAST	1	WAREHOSUE A154					
17	117	Kalaeloa	EF-A-5 CENTRIFUGAL ROOF UPBLAST	1	WAREHOSUE A154					
18	117	Kalaeloa	EF-A-6 CENTRIFUGAL ROOF UPBLAST	1	WAREHOSUE A154					
19	117	Kalaeloa	EF-A-7 CENTRIFUGAL ROOF UPBLAST	1	WAREHOSUE A154					
20	117	Kalaeloa	EF-A-8 CENTRIFUGAL ROOF	1	WOMENS LOCKER A144					
21	117	Kalaeloa	EF-A-9 CENTRIFUGAL ROOF	1	MENS LOCKER A132					
22	117	Kalaeloa	EF-A-10 CENTRIFUGAL IN-LINE	1	ENCLOSURE A154E					
23	117	Kalaeloa	EF-A-10 CENTRIFUGAL IN-LINE	1	ENCLOSURE A154E					
24	117	Kalaeloa	EF-A-12 CENTRIFUGAL ROOF	1	WOMENS LOCKER A144					
25	117	Kalaeloa	EF-A-13 CENTRIFUGAL ROOF	1	BREAK RM A139					
26	117	Kalaeloa	EF-B-1 CENTRIFUGAL ROOF UPBLAST	1	WAREHOUSE/STOR. B100					
27	117	Kalaeloa	EF-B-2 CENTRIFUGAL ROOF UPBLAST	1	WAREHOUSE/STOR. B100					
28	117	Kalaeloa	EF-B-3 CENTRIFUGAL ROOF UPBLAST	1	SHIPPING/RECEIV. B101					

Equipment Item #	Bldg.	Location	Description	Qty.	Building Location	Make	Model	Serial	Filter (Model no, Qty)	Belt (Model No, Qty)
29	117	Kalaeloa	EF-B-4 CENTRIFUGAL ROOF	1	STORAGE H201					
30	117	Kalaeloa	EF-B-5 CENTRIFUGAL ROOF	1	WOMENS LOCKER H210					
31	117	Kalaeloa	EF-B-6 CENTRIFUGAL ROOF	1	MEZZANINE AREA "C"					
32	117	Kalaeloa	EF-B-7 CENTRIFUGAL ROOF	1	WAREHOUSE/STOR B100					
33	117	Kalaeloa	EF-C-1 CENTRIFUGAL ROOF	1	STORAGE C136					
34	117	Kalaeloa	EF-C-2 CENTRIFUGAL ROOF	1	SUPPLY ENCLSR C130A					
35	117	Kalaeloa	EF-C-3 CENTRIFUGAL ROOF	1	WAREHOUSE/STOR B100					
36	117	Kalaeloa	EF-C-4 CENTRIFUGAL ROOF	1	ASEMBLY HALL C126					
37	117	Kalaeloa	EF-C-5 CENTRIFUGAL ROOF	1	MENS TOILET C117					
38	117	Kalaeloa	EF-C-6 CENTRIFUGAL ROOF	1	WOMENS LOCKER C113					
39	117	Kalaeloa	EF-C-7 CENTRIFUGAL ROOF	1	CORRIDOR C138					
40	117	Kalaeloa	EF-C-8 CENTRIFUGAL ROOF	1	CORRIDOR C131					
41	117	Kalaeloa	EF-C-9 CENTRIFUGAL ROOF	1	CORRIDOR C133					
42	117	Kalaeloa	EF-C-10 CENTRIFUGAL ROOF UPBLAST	1	STORAGE C136					
43	117	Kalaeloa	EF-C-14 CENTRIFUGAL ROOF	1	P&C WAREHOUSE A156G					
44	117	Kalaeloa	EF-D-1 UTILITY SET	1	STMP WORKBAY D100					
45	117	Kalaeloa	EF-D-2 UTILITY SET	1	STMP WORKBAY D100					
46	117	Kalaeloa	EF-D-3 UTILITY SET	1	STMP WORKBAY D100					
47	117	Kalaeloa	EF-D-4 UTILITY SET	1	STMP WORKBAY D100					
48	117	Kalaeloa	EF-D-5 CENTRIFUGAL ROOF	1	TOOL STORAGE D109A					
49	117	Kalaeloa	EF-D-6 CENTRIFUGAL ROOF	1	COMP RM D103A					
50	117	Kalaeloa	EF-D-7 CENTRIFUGAL CEILING CABINET	1	ELEC. RM D105A					
51	117	Kalaeloa	EF-D-8 CENTRIFUGAL ROOF	1	CORRIDOR D120					
52	117	Kalaeloa	EF-D-9 CENTRIFUGAL ROOF	1	PARTS STORAGE D110					
53	117	Kalaeloa	EF-D-10 CENTRIFUGAL ROOF	1	MENS TOILET D204					
54	117	Kalaeloa	EF-D-11 CENTRIFUGAL ROOF	1	MENS TOILET D204					
55	117	Kalaeloa	CRAC FCU (A-9)	6	A125/A126	Liebert	MMD60E7C0ELF		20x20x4 (2)	Qty 1
56	117	Kalaeloa	CRAC ACCU (A-9)	6	A125/A126	Liebert	PFHZ067ACYL7			
1	Bldg 117 ("Low Bay")	Kalaeloa	CRACU-F-1 CEILING HUNG WATER COOLED ACU	1	Elec Supply L102					
2	Bldg 117 ("Low Bay")	Kalaeloa	CRACU-F-2 CEILING HUNG WATER COOLED ACU	1	Comm/Elec L103					
3	Bldg 117 ("Low Bay")	Kalaeloa	CRACU-F-3 CEILING HUNG WATER COOLED ACU	1	Comm/Elec L103					
4	Bldg 117 ("Low Bay")	Kalaeloa	CRACU-F-4 CEILING HUNG WATER COOLED ACU	1	Missile Repair L107					
5	Bldg 117 ("Low Bay")	Kalaeloa	CRACU-F-5 CEILING HUNG WATER COOLED ACU	1	Instrument Repair L110					
4	Bldg 117 ("Low Bay")	Kalaeloa	FCU-F-1 LARGE CAPACITY FAN COIL UNIT	1	CORRIDOR L137					
5	Bldg 117 ("Low Bay")	Kalaeloa	AHU-F-2 CENTRAL STATION AIR HANDLING UNIT	1	COMMIELEC L103					
6	Bldg 117 ("Low Bay")	Kalaeloa	AHU-F-3 CENTRAL STATION AIR HANDLING UNIT	1	COMM/ELEC L103					
7	Bldg 117 ("Low Bay")	Kalaeloa	EF-17 CENTRIFUGAL ROOF UPBLAST	1	RAD CALIBR L101					
8	Bldg 117 ("Low Bay")	Kalaeloa	EF-18 CENTRIFUGAL ROOF UPBLAST	1	CORRIDOR L136					
9	Bldg 117 ("Low Bay")	Kalaeloa	EF-19 CENTRIFUGAL ROOF	1	STORAGE					
10	Bldg 117 ("Low Bay")	Kalaeloa	EF-20 CENTRIFUGAL ROOF	1	ELECTR WRKBAY L130					
11	Bldg 117 ("Low Bay")	Kalaeloa	EF-21 CENTRIFUGAL ROOF	1	PARTS STORAGE L134					
12	Bldg 117 ("Low Bay")	Kalaeloa	EF-22 CENTRIFUGAL ROOF	1	BASIC ISSUE L1129					
13	Bldg 117 ("Low Bay")	Kalaeloa	EF-23 CENTRIFUGAL ROOF	1	SUPPLY L127					
14	Bldg 117 ("Low Bay")	Kalaeloa	EF-24 CENTRIFUGAL ROOF	1	SUPPLY L127					
15	Bldg 117 ("Low Bay")	Kalaeloa	EF-25 CENTRIFUGAL ROOF	1	SUPPLY L127					
16	Bldg 117 ("Low Bay")	Kalaeloa	EF-28 CENTRIFUGAL ROOF	1	OPEN SPACE L123					
17	Bldg 117 ("Low Bay")	Kalaeloa	EF-29 CENTRIFUGAL ROOF	1	ARTILLERY MAINT L121					
18	Bldg 117 ("Low Bay")	Kalaeloa	EF-30 CENTRIFUGAL ROOF	1	CANVAS SHOP L120					
19	Bldg 117 ("Low Bay")	Kalaeloa	EF-31 CENTRIFUGAL ROOF	1	CARPENTRY SHOP L119					
20	Bldg 117 ("Low Bay")	Kalaeloa	EF-60 CENTRIFUGAL ROOF	1	AIR COMP L127B					
21	Bldg 117 ("Low Bay")	Kalaeloa	DH (F-1) DEHUMIDIFIER	1	VAULT L109					
22	Bldg 117 ("Low Bay")	Kalaeloa	DRC (F-1) DEHUMIDIFIER REMOTE CONDESER	1	EXT OF REC'G OFFICE L128					
23	Bldg 117 ("Low Bay")	Kalaeloa	FCU-F-4 HORIZONTAL CABINET FAN COIL UNIT	1	MISSILE REPAIR L107					
24	Bldg 117 ("Low Bay")	Kalaeloa	FCU-F-5 HORIZONTAL CABINET FAN COIL UNIT	1	MACHINE SHOP L122					
25	Bldg 117 ("Low Bay")	Kalaeloa	FCU-F-6 HORIZONTAL CABINET FAN COIL UNIT	1	FACILITY MAINT. L111					
26	Bldg 117 ("Low Bay")	Kalaeloa	FCU-F-7 DUCTED FAN COIL UNIT	1	COMM ROOM					
27	Bldg 117 ("Low Bay")	Kalaeloa	FCU-F-8 LARGE CAPACITY FAN COIL UNIT	1	CORRIDOR L136					
28	Bldg 117 ("Low Bay")	Kalaeloa	FCU-F-9 HORIZONTAL CABINET FAN COIL UNIT	1	MACHINE SHOP L122					
1	Bldg 117 ("High Bay")	Kalaeloa	EF-F-1 WALL MOUNTED PROPELLER	1	ELECTRICAL F100					
2	Bldg 117 ("High Bay")	Kalaeloa	EF-F-2 TUBLAR IN-LINE	1	HANGER WORKBAY					
3	Bldg 117 ("High Bay")	Kalaeloa	EF-F-3 TUBLAR IN-LINE	1	HANGER WORKBAY					
4	Bldg 117 ("High Bay")	Kalaeloa	EF-F-4 TUBLAR IN-LINE	1	HANGER WORKBAY					
5	Bldg 117 ("High Bay")	Kalaeloa	EF-F-5 TUBLAR IN-LINE	1	HANGER WORKBAY					
6	Bldg 117 ("High Bay")	Kalaeloa	EF-F-6 TUBLAR IN-LINE	1	HANGER WORKBAY					
7	Bldg 117 ("High Bay")	Kalaeloa	EF-F-7 TUBLAR IN-LINE	1	HANGER WORKBAY					
8	Bldg 117 ("High Bay")	Kalaeloa	EF-F-8 TUBLAR IN-LINE	1	HANGER WORKBAY					
9	Bldg 117 ("High Bay")	Kalaeloa	EF-F-9 TUBLAR IN-LINE	1	HANGER WORKBAY					
10	Bldg 117 ("High Bay")	Kalaeloa	EF-F-10 TUBLAR IN-LINE	1	HANGER WORKBAY					
11	Bldg 117 ("High Bay")	Kalaeloa	EF-F-11 TUBLAR IN-LINE	1	HANGER WORKBAY					
10	Bldg 117 ("High Bay")	Kalaeloa	EF-12 UTILITY SET	1						
11	Bldg 117 ("High Bay")	Kalaeloa	EF-13 UTILITY SET	1						

Equipment Item #	Bldg.	Location	Description	Qty.	Building Location	Make	Model	Serial	Filter (Model no, Qty)	Belt (Model No, Qty)
1	117B (Ext Work Bay)	Kalaeloa	ACCU-F-3 INVERTER AIR COOLED CONDENSING UNIT	1						
2	117B (Ext Work Bay)	Kalaeloa	ACCU-F-4 INVERTER AIR COOLED CONDENSING UNIT	1						
3	117B (Ext Work Bay)	Kalaeloa	FCU-F-13 DUCTED FAN COIL UNIT	1	CONTROL ROOM, E121					
5	117B (Ext Work Bay)	Kalaeloa	FCU-F-14 DUCTED FAN COIL UNIT	1	BREAKROOM, E111					
4	117B (Ext Work Bay)	Kalaeloa	FCU-F-15 DUCTED FAN COIL UNIT	1	AUTO SUPR, E112,					
6	117B (Ext Work Bay)	Kalaeloa	FCU-F-16 DUCTED FAN COIL UNIT	1	COMM ROOM, E116,					
7	117B (Ext Work Bay)	Kalaeloa	FCU-F-17 DUCTED FAN COIL UNIT	1	FUEL IGNITION E114					
8	117B (Ext Work Bay)	Kalaeloa	FCU-F-18 DUCTED FAN COIL UNIT	1	INJECTOR TEST E109					
9	117B (Ext Work Bay)	Kalaeloa	FCU-F-19 DUCTED FAN COIL UNIT	1	TRANS/POWER PACK E124					
10	117B (Ext Work Bay)	Kalaeloa	FCU-F-20 DUCTED FAN COIL UNIT	1	ENGINE DYNO E122					
11	117B (Ext Work Bay)	Kalaeloa	FCU-F-21 DUCTED FAN COIL UNIT	1	POP VALUE TEST RM E119					
12	117B (Ext Work Bay)	Kalaeloa	EF-34 INDUSTRIAL B.I UTILTY SET	1	WORKBAY E102					
13	117B (Ext Work Bay)	Kalaeloa	EF-35 INDUSTRIAL B.I UTILTY SET	1	WORKBAY E102					
14	117B (Ext Work Bay)	Kalaeloa	EF-36 INDUSTRIAL B.I UTILTY SET	1	WORKBAY E102					
15	117B (Ext Work Bay)	Kalaeloa	EF-37 INDUSTRIAL B.I UTILTY SET	1	WORKBAY E102					
16	117B (Ext Work Bay)	Kalaeloa	EF-38 CENTRIFUGAL ROOF	1	WORKBAY E102					
17	117B (Ext Work Bay)	Kalaeloa	EF-39 CENTRIFUGAL ROOF	1	WORKBAY E102					
18	117B (Ext Work Bay)	Kalaeloa	EF-41 CENTRIFUGAL ROOF UPBLAST	1	FUEL IGNITION E114					
19	117B (Ext Work Bay)	Kalaeloa	EF-41A INDUSTRIAL B.I UTILTY SET	1	INJECT TEST E109					
20	117B (Ext Work Bay)	Kalaeloa	EF-42A CENTRIFUGAL ROOF	1	AIR COMP E113					
21	117B (Ext Work Bay)	Kalaeloa	EF-42B CENTRIFUGAL ROOF	1	AIR COMP E113					
22	117B (Ext Work Bay)	Kalaeloa	F-43 CENTRIFUGAL ROOF	1						
23	117B (Ext Work Bay)	Kalaeloa	EF-44 CENTRIFUGAL ROOF	1	TIRE/ALIGN E117					
24	117B (Ext Work Bay)	Kalaeloa	EF-45 INDUSTRIAL B.I UTILTY SET	1	TIRE/ALIGN E117					
25	117B (Ext Work Bay)	Kalaeloa	EF-46 INDUSTRIAL B.I UTILTY SET	1	TRANS PWRPACK E124					
26	117B (Ext Work Bay)	Kalaeloa	EF-47 PROPELLER UPBLAST TUBE AXIAL	1	ENGINE DYNOMTR E122					
27	117B (Ext Work Bay)	Kalaeloa	EF-48 CENTRIFUGAL ROOF	1	ELEC RM E120					
28	117B (Ext Work Bay)	Kalaeloa	EF-49 INDUSTRIAL B.I UTILTY SET	1	WELDING SHOP E125					
29	117B (Ext Work Bay)	Kalaeloa	EF-50 INDUSTRIAL B.I UTILTY SET	1	WELDING SHOP E125					
30	117B (Ext Work Bay)	Kalaeloa	EF-51 CENTRIFUGAL ROOF	1	WELDING SHOP E125					
31	117B (Ext Work Bay)	Kalaeloa	EF-52 CENTRIFUGAL ROOF	1	BODY SHOP E126					
32	117B (Ext Work Bay)	Kalaeloa	EF-53 PROPELLER UPBLAST TUBE AXIAL	1	WASH/STRIP E127					
33	117B (Ext Work Bay)	Kalaeloa	EF-54 CENTRIFUGAL ROOF UPBLAST	1	PAINT KITCHEN E127					
34	117B (Ext Work Bay)	Kalaeloa	EF-55A CENTRIFUGAL ROOF	1	MECH RM E128					
35	117B (Ext Work Bay)	Kalaeloa	EF-55B CENTRIFUGAL ROOF	1	MECH RM E128					
36	117B (Ext Work Bay)	Kalaeloa	EF-57 CENTRIFUGAL ROOF	1	PAINT SHOP E132					
37	117B (Ext Work Bay)	Kalaeloa	EF-58 CENTRIFUGAL ROOF	1	PREP SHOP E133					
38	117B (Ext Work Bay)	Kalaeloa	EF-59 CENTRIFUGAL ROOF	1	UNDERCOATING E134					
39	117B (Ext Work Bay)	Kalaeloa	EF-61 CENTRIFUGAL ROOF	1	DYNO EQUIP E123					
40	117B (Ext Work Bay)	Kalaeloa	EF-62 PROPELLER UPBLAST TUBE AXIAL	1	PAINT SHOP E132					
41	117B (Ext Work Bay)	Kalaeloa	EF-63 PROPELLER UPBLAST TUBE AXIAL	1	UNDERCOATING E134					
42	117B (Ext Work Bay)	Kalaeloa	EF-66 INDUSTRIAL B.I UTILTY SET	1	ADDED WORKBAY					
43	117B (Ext Work Bay)	Kalaeloa	EF-67 INDUSTRIAL B.I UTILTY SET	1	ADDED WORKBAY					
44	117B (Ext Work Bay)	Kalaeloa	EF-68 CENTRIFUGAL ROOF	1	ADDED WORKBAY					
45	117B (Ext Work Bay)	Kalaeloa	EF-69 WALL MOUNTED PROPELLER	1	PV ROOM					
1	663 (Admin Bldg)	Kalaeloa	EF-33 WOMENS TOILET	1	2nd Floor					
2	663 (Admin Bldg)	Kalaeloa	AHU-F-12 CENTRAL STATION AIR HANDLING UNIT	1	2nd Floor LOFT F204					
3	663 (Admin Bldg)	Kalaeloa	EF-64 WALL MOUNTED PROPELLER	1	2nd Floor JANITOR CLOSET 105					
4	663 (Admin Bldg)	Kalaeloa	FCU-F-10 HORIZONTAL CABINET FAN COIL UNIT	1	1st Floor STORAGE F107					
5	663 (Admin Bldg)	Kalaeloa	AHU-F-11 CENTRAL STATION AIR HANDLING UNIT	1	1st Floor STORAGE F107					
6	663 (Admin Bldg)	Kalaeloa	ACCU-F2 INVERTER AIR COOLED CONDENSING UNIT	1						
7	663 (Admin Bldg)	Kalaeloa	FCU-F-22 DUCTED FAN COIL UNIT	1	COMM RM					
1	282	Kalaeloa	Ductless DX FCU (2-1E, 2-1F, 2-1N, 2-5E)	4		Mitsubishi	P08NBMU-E		No filters	
2	282	Kalaeloa	Ductless DX FCU (2-1K, 2-1M)	2		Mitsubishi	P12NHMU-E			
3	282	Kalaeloa	Ductless DX FCU (2-5D, 2-5H)	2		Mitsubishi	P15NHMU-E			
4	282	Kalaeloa	Ductless DX FCU (2-1A, 2-1D, 2-4F, 2-5C, 2-5G, 2-5J)	6		Mitsubishi	P18NHMU-E			
5	282	Kalaeloa	Ductless DX FCU (1-3)	1		Mitsubishi	PKA-A18HA4			
6	282	Kalaeloa	Ductless DX FCU (2-1C, 2-1H, 2-2A, 2-2B, 2-2C, 2-2D, 2-3A, 2-3C, 2-3D, 2-4A, 2-4D, 2-4E, 2-4H, 2-4J, 2-5A)	16		Mitsubishi	P24NKMU-E			
7	282	Kalaeloa	Ductless DX FCU (1-1, 1-2,1-4)	3		Mitsubishi	PKA-A24KA4			
8	282	Kalaeloa	Ductless DX FCU (2-1B, 2-1G, 2-1L, 2-3B, 2-4C, 2-4G, 2-5B, 2-5K, 2-5L)	9		Mitsubishi	P30NKMU-E			
9	282	Kalaeloa	Ductless DX FCU	20						
10	282	Kalaeloa	ACCU 24,000 Btuh (1-1)	1		Mitsubishi	PUY-A24NHA4-BS			
11	282	Kalaeloa	ACCU 24,000 Btuh (1-2)	1		Mitsubishi	PUY-A24NHA4-BS			
12	282	Kalaeloa	ACCU 18,000 Btuh (1-3)	1		Mitsubishi	PUY-A18NHA4-BS			
13	282	Kalaeloa	ACCU 24,000 Btuh (1-4)	1		Mitsubishi	PUY-A24NHA4-BS			
14	282	Kalaeloa	ACCU 216,000 Btuh (2-1)	1		Mitsubishi	PUHY-P216TSJMU-A-BS			
15	282	Kalaeloa	ACCU 96,000 Btuh (2-2)	1		Mitsubishi	PUHY-P96TJMU-A-BS			
16	282	Kalaeloa	ACCU 96,000 Btuh (2-3)	1		Mitsubishi	PUHY-P96TJMU-A-BS			
17	282	Kalaeloa	ACCU 216,000 Btuh (2-4)	1		Mitsubishi	PUHY-P216TSJMU-A-BS			
18	282	Kalaeloa	ACCU 192,000 Btuh (2-5)	1		Mitsubishi	PUHY-P192TSJMU-A-BS			

Equipment Item #	Bldg.	Location	Description	Qty.	Building Location	Make	Model	Serial	Filter (Model no, Qty)	Belt (Model No, Qty)
19	282	Kalaeloa	AC Condensate Pump	14		Little Giant	VCMA-20			
20	282	Kalaeloa	AHU (1)	1	In Mech Rm 2015 - feeds Locker Room					
21	282	Kalaeloa	Supply Air Fans							
22	282	Kalaeloa	Exhaust Fans							
1	134	Kalaeloa	AHU-1	1		Carrier	40RM016B611ED	1101F20585	16x20x2 Qty 4	
2	134	Kalaeloa	ACCU-1	1		Carrier	38 AKS016-521		16x24x2 Qty 4	1 EA belt
3	134	Kalaeloa	Ductless Wall mounted FCU-1	1		Carrier	40QNB012			
4	134	Kalaeloa	Horizontal Discharge Outdoor Unit ACCU-2	1		Carrier	38AN012			
1	29 (Readiness Center)	Kalaeloa	Air Cooled package water chiller (CH 1)	1		Carrier	30RBD06065-RCQ3K	2813Q79294		
2	29 (Readiness Center)	Kalaeloa	Air Cooled package water chiller (CH 2)	1		Carrier	30RBD06065-RCQ3K	2813Q79307		
3	29 (Readiness Center)	Kalaeloa	Water to water heat pump (WHP 1)	1	MECH RM 2090	Johnson Controls	RWXW360R4PF3NNSSB			
4	29 (Readiness Center)	Kalaeloa	Chilled water AHU (AHU 1)	1	1ST FLOOR	Carrier	39MN-21			
5	29 (Readiness Center)	Kalaeloa	Chilled water AHU (AHU 2)	1	2ND FLOOR	Carrier	39MN-17			
6	29 (Readiness Center)	Kalaeloa	Chilled water AHU (AHU 3)	1	LECTURE HALL	Carrier	39MN-08			
7	29 (Readiness Center)	Kalaeloa	Chilled water AHU (AHU 4)	1	ASSEMBLY HALL	Carrier	39MN-12			
8	29 (Readiness Center)	Kalaeloa	Chilled Water Pump (P1)	1	MECH RM 2090	B&G	2-1/2BB SERIES 1510			
9	29 (Readiness Center)	Kalaeloa	Chilled Water Pump (P2)	1	MECH RM 2090	B&G	2-1/2BB SERIES 1510			
10	29 (Readiness Center)	Kalaeloa	Chilled Water Pump (P3)	1	MECH RM 1100	B&G	2E SERIES 1510			
11	29 (Readiness Center)	Kalaeloa	Chilled Water Pump (P4)	1	MECH RM 1100	B&G	2E SERIES 1510			
12	29 (Readiness Center)	Kalaeloa	Chilled Water Pump (P5)	1	MECH RM 2090	B&G	2 1/2 X 2 1/2 X 7 SERIES 80			
							2 1/2 X 2 1/2 X 7 SERIES 80			
13	29 (Readiness Center)	Kalaeloa	Chilled Water Pump (P6)	1	MECH RM 2090	B&G	80			
14	29 (Readiness Center)	Kalaeloa	Ductless Split FCU (ACU1)	1	COMM#1 - 1110	Friedrich	MW18C3F			
15	29 (Readiness Center)	Kalaeloa	Ductless Split ACCU (ACCU1)	1	1st FLR ROOF	Friedrich	MW18C3F			
16	29 (Readiness Center)	Kalaeloa	Ductless Split FCU (ACU2)	1	COMM#2 - 1230	Friedrich	MW09C1H			
17	29 (Readiness Center)	Kalaeloa	Ductless Split ACCU (ACCU2)	1	1st FLR ROOF	Friedrich	MW09C1H			
18	29 (Readiness Center)	Kalaeloa	Ductless Split FCU (ACU3)	1	COMM#3 - 2110	Friedrich	MW09C1H			
19	29 (Readiness Center)	Kalaeloa	Ductless Split ACCU (ACCU3)	1	1st FLR ROOF	Friedrich	MW09C1H			
20	29 (Readiness Center)	Kalaeloa	Ductless Split FCU (ACU4)	1	COMM#4 - 2190	Friedrich	MW09C1H			
21	29 (Readiness Center)	Kalaeloa	Ductless Split ACCU (ACCU4)	1	1st FLR ROOF	Friedrich	MW09C1H			
22	29 (Readiness Center)	Kalaeloa	Ductless Split FCU (ACU5)	1	ELEV RM 1160	Friedrich	MW09C1H			
23	29 (Readiness Center)	Kalaeloa	Ductless Split ACCU (ACCU5)	1	1st FLR ROOF	Friedrich	MW09C1H			
24	29 (Readiness Center)	Kalaeloa	Dehumidifer (DH1)	1	VAULT 1201	Comfort Air	BHD-301G			
25	29 (Readiness Center)	Kalaeloa	Dehumidifer (DH2)	1	VAULT 1202	Comfort Air	BHD-301G			
26	29 (Readiness Center)	Kalaeloa	Exhaust Fan (EF1)	1	ATTIC	Cook	135SQN-B			
27	29 (Readiness Center)	Kalaeloa	Exhaust Fan (EF2)	1	MECH RM 2090	Cook	120SQN-B			
28	29 (Readiness Center)	Kalaeloa	Exhaust Fan (EF3)	1	MECH RM 2090	Cook	180SQN-B			
29	29 (Readiness Center)	Kalaeloa	Exhaust Fan (EF4)	1	ATTIC	Cook	135SQN-B			
30	29 (Readiness Center)	Kalaeloa	Exhaust Fan (EF5)	1	ROOF	Cook	270VX11B			
31	29 (Readiness Center)	Kalaeloa	Exhaust Fan (EF6)	1	ROOF	Cook	195VX7B			
32	29 (Readiness Center)	Kalaeloa	Exhaust Fan (EF7)	1	SCULLERY 1243	Cook	165SQN-B			
33	29 (Readiness Center)	Kalaeloa	Exhaust Fan (EF8)	1	STORAGE 1248	Cook	60SQN-B			
34	29 (Readiness Center)	Kalaeloa	Exhaust Fan (EF9)	1	MECH RM 2090	Cook	120SQN-B			
35	29 (Readiness Center)	Kalaeloa	Exhaust Fan (EF10)	1	LOCKER RM 1210	Cook	24XMWH			
36	29 (Readiness Center)	Kalaeloa	Exhaust Fan (EF11)	1	STOR RM 1200	Cook	24XMWH			
37	29 (Readiness Center)	Kalaeloa	Exhaust Fan (EF12)	1	ATTIC	Cook	225SQ2N-B			
38	29 (Readiness Center)	Kalaeloa	Exhaust Fan (EF13)	1	TABLE & CHAIR 1251	Cook	20XLW			
39	29 (Readiness Center)	Kalaeloa	Supply Fan (SF1)	1	STORAGE 1251	Cook	200KSP-B			
1	1903	Kalaeloa	Ductless Mini Split	7		Mitsubishi				
1	175	Kalaeloa	FCU1 28,000 Btuh	1	Storage	LG				
2	175	Kalaeloa	FCU2 28,000 Btuh	1	Office	LG				
3	175	Kalaeloa	FCU3	1	Multi purpose	LG				
4	175	Kalaeloa	FCU4	1	Secure Distribution	LG				
5	175	Kalaeloa	FCU5	1	Receiving	LG				
6	175	Kalaeloa	FCU6	1	Open Distribution	LG				
7	175	Kalaeloa	ACCU1	1		LG	ARUN192BT2			
7	175	Kalaeloa	Exhaust Fan (EF-1)	1		Cook	GN-184			
8	175	Kalaeloa	Exhaust Fan (EF-2)	1		Cook	GN-184			
1	RTSM	Waiawa, Pearl City	Package Unit (PAC-1)	1	Computer Lab 1	Carrier			Qty 1	NA
2	RTSM	Waiawa, Pearl City	Package Unit (PAC-2)	1	Computer Lab 2	Carrier			Qty 1	NA
3	RTSM	Waiawa, Pearl City	Fan Coil Unit (FCU-1)	1					Qty 4	Qty 1
4	RTSM	Waiawa, Pearl City	Air Cooled Condensing Unit (ACCU-1)	1	Oustide (Near Parts Storage Office)					
5	RTSM	Waiawa, Pearl City	Fan Coil Unit (FCU-2)	1	Breakroom				Qty 4	Qty 1
6	RTSM	Waiawa, Pearl City	Air Cooled Condensing Unit (ACCU-2)	1	Oustide (Near Computer Lab 2)					
7	RTSM	Waiawa, Pearl City	Fan Coil Unit (FCU-3)	1	Classroom 3				Qty 4	Qty 1

Equipment Item #	Bldg.	Location	Description	Qty.	Building Location	Make	Model	Serial	Filter (Model no, Qty)	Belt (Model No, Qty)
8	RTSM	Waiawa, Pearl City	Air Cooled Condensing Unit (ACCU-3)	1	Oustide (Near Computer Lab 2)					
9	RTSM	Waiawa, Pearl City	Exhaust Fan (Roof Mounted)	4					N/A	Qty 4
1	Band Building (B002)	Waiawa, Pearl City	Package Unit	1		Trane	TCH120B300BB	J3914332BD	Qty 4	Qty 1
2	Band Building (B002)	Waiawa, Pearl City	Package Unit	1		Trane	ITCH060C300BB	J19142406D	Qty 2	Qty 1
3	Band Building (B002)	Waiawa, Pearl City	Package Unit	1		Trane	TCH090D300BA	HS4142858D	Qty 2	Qty 1
4	Band Building (B002)	Waiawa, Pearl City	Package Unit	1		Trane	TCH160B300CA	J071430B3D	Qty 2	Qty 1
5	Band Building (B002)	Waiawa, Pearl City	Package Unit	1		Trane	TCH	J11142284D	Qty 8	Qty 1
6	Band Building (B002)	Waiawa, Pearl City	Package Unit	1		Trane	TCH060C300BA	J05142944D	Qty 6	Qty 1
7	Band Building (B002)	Waiawa, Pearl City	Package Unit	1		Trane	TCH050C300BB	J18143316D	Qty 4	Qty 1
8	Band Building (B002)	Waiawa, Pearl City	Supply Fan	1					N/A	Qty 1
9	Band Building (B002)	Waiawa, Pearl City	Exhaust Fan (Roof Mounted)	9					N/A	Qty 9
1	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (132-1)	1						
2	103rd Troop Comm(B001)	Waiawa, Pearl City	ACCU (132-1)	1						
3	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (132-2)	1						
4	103rd Troop Comm(B001)	Waiawa, Pearl City	ACCU (132-2)	1						
5	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (128)	1						
6	103rd Troop Comm(B001)	Waiawa, Pearl City	ACCU (128)	1						
7	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (122)	1						
8	103rd Troop Comm(B001)	Waiawa, Pearl City	ACCU (122)	1						
9	103rd Troop Comm(B001)	Waiawa, Pearl City	ACCU (113)	1						
10	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (113-1)	1						
11	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (113-2)	1						
12	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (114)	1						
13	103rd Troop Comm(B001)	Waiawa, Pearl City	ACCU (114)	1						
14	103rd Troop Comm(B001)	Waiawa, Pearl City	ACCU (192)	1						
15	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (192-1)	1						
16	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (192-2)	1						
17	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (192-3)	1						
18	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (192-4)	1						
19	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (192-5)	1						
20	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (192-6)	1						
21	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (192-7)	1						
22	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (192-8)	1						
23	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (192-9)	1						
24	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (192-10)	1						
25	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (192-11)	1						
26	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (192-12)	1						
27	103rd Troop Comm(B001)	Waiawa, Pearl City	ACCU (120)	1						
28	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (120-1)	1						
29	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (120-2)	1						
30	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (120-3)	1						
31	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (120-4)	1						
32	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (120-5)	1						
33	103rd Troop Comm(B001)	Waiawa, Pearl City	FCU (120-6)	1						
34	103rd Troop Comm(B001)	Waiawa, Pearl City	Dehumidifier	1	Vault Rm No 126					
35	103rd Troop Comm(B001)	Waiawa, Pearl City	Supply Fan (SF1)	1						
36	103rd Troop Comm(B001)	Waiawa, Pearl City	Supply Fan (SF2)	1						
37	103rd Troop Comm(B001)	Waiawa, Pearl City	Supply Fan (SF3)	1						
38	103rd Troop Comm(B001)	Waiawa, Pearl City	Supply Fan (SF4)	1						
1	UTES (Building 21)	Waiawa, Pearl City	AC #1	1						
2	UTES (Building 21)	Waiawa, Pearl City	AC #2	1						
3	UTES (Building 21)	Waiawa, Pearl City	Exhaust Fan #1	1						
1	829, AASF #1	Wheeler AAF	Chiller	1		Climatrol	LLS035001-001	BJ100214		
2	829, AASF #1	Wheeler AAF	Remote Condenser	1		AH WITT	CDD-334	55666		
3	829, AASF #1	Wheeler AAF	CHWP	2			N/A	N/A		
4	829, AASF #1	Wheeler AAF	AHU#1	1		Lanco			Qty 1	Qty 1
5	829, AASF #1	Wheeler AAF	AHU#2	1					Qty 1	Qty 1
6	829, AASF #1	Wheeler AAF	AHU#3	1					Qty 1	Qty 1
7	829, AASF #1	Wheeler AAF	AHU#4	1					Qty 1	Qty 1
8	829, AASF #1	Wheeler AAF	AHU#5	1					Qty 1	Qty 1
9	829, AASF #1	Wheeler AAF	AHU#6	1					Qty 1	Qty 1
10	829, AASF #1	Wheeler AAF	AHU#7	1					Qty 1	Qty 1
11	829, AASF #1	Wheeler AAF	AHU#8	1					Qty 1	Qty 1
12	829, AASF #1	Wheeler AAF	AHU#9	1					Qty 1	Qty 1
13	829, AASF #1	Wheeler AAF	AHU#10	1					Qty 1	Qty 1
14	829, AASF #1	Wheeler AAF	AHU#11	1					Qty 1	Qty 1
15	829, AASF #1	Wheeler AAF	Mini Split	4		Mitsubishi, Fujitsu			Washable	
16	829, AASF #1	Wheeler AAF	Fan Coil Unit	6		Lanco			Qty 1	DD

Equipment Item #	Bldg.	Location	Description	Qty.	Building Location	Make	Model	Serial	Filter (Model no, Qty)	Belt (Model No, Qty)
1	832	Wheeler AAF	Package Unit	1		Carrier	50BB028607	N395270	Qty 1	DD
2	832	Wheeler AAF	Split A/C	1		Carrier				
3	832	Wheeler AAF	FCU	1		Fujitsu				
4	832	Wheeler AAF	ACCU	1		Fujitsu				
5	832	Wheeler AAF	FCU	1		Fujitsu				
6	832	Wheeler AAF	ACCU	1		Fujitsu				
7	832	Wheeler AAF	FCU	1		Fujitsu				
8	832	Wheeler AAF	ACCU	1		Fujitsu				
9	832	Wheeler AAF	Mini Split	3		Fujitsu			Washable	DD
10	832	Wheeler AAF	Split	1		Trane			Washable	N/A
1	825, OSA Det 55	Wheeler AAF	AHU	1		Trane			Qty 4	Qty 1
2	825, OSA Det 55	Wheeler AAF	ACCU	1		Trane	TTA120B			
1	Wahiawa Armory	Wahiawa	VRF System Heat Pump (HP1)	1	Outdoor	Mitsubishi	PUHY-P-72T KMU-A-BS			
2	Wahiawa Armory	Wahiawa	VRF System Heat Pump (HP1)	1	Outdoor	Mitsubishi	PUHY-P-120T KMU-A-BS			
3	Wahiawa Armory	Wahiawa	VRF System Heat Pump (HP2)	1	Outdoor	Mitsubishi	PUHY-P-144T KMU-A-BS			
4	Wahiawa Armory	Wahiawa	VRF System Heat Pump (HP3)	1	Outdoor	Mitsubishi	PUHY-P-72T KMU-A-BS			
5	Wahiawa Armory	Wahiawa	VRF System Heat Pump (HP3)	1	Outdoor	Mitsubishi	PUHY-P-96T KMU-A-BS			
6	Wahiawa Armory	Wahiawa	VRF System Heat Pump (HP4)	1	Outdoor	Mitsubishi	PUHY-P-72T KMU-A-BS			
7	Wahiawa Armory	Wahiawa	VRF System Heat Pump (HP4)	1	Outdoor	Mitsubishi	PUHY-P-120T KMU-A-BS			
8	Wahiawa Armory	Wahiawa	VRF System Heat Pump (HP5)	1	Outdoor	Mitsubishi	PUHY-P-72T KMU-A-BS			
9	Wahiawa Armory	Wahiawa	VRF System Heat Pump (HP5)	1	Outdoor	Mitsubishi	PUHY-P-96T KMU-A-BS			
10	Wahiawa Armory	Wahiawa	VRF System Heat Pump (HP6)	1	Outdoor	Mitsubishi	PUHY-P-144T KMU-A-BS			
11	Wahiawa Armory	Wahiawa	Fan Coil Unit (FC8A)	15		Mitsubishi	PLFY-P08NCMU-E			
12	Wahiawa Armory	Wahiawa	Fan Coil Unit (FC12A)	14		Mitsubishi	PLFY-P12NCMU-E			
13	Wahiawa Armory	Wahiawa	Fan Coil Unit (FC15A)	7		Mitsubishi	PLFY-P15NCMU-E			
14	Wahiawa Armory	Wahiawa	Fan Coil Unit (FC12B)	1		Mitsubishi	PLFY-P12NBMU-E			
15	Wahiawa Armory	Wahiawa	Fan Coil Unit (FC15B)	7		Mitsubishi	PLFY-P15NBMU-E			
16	Wahiawa Armory	Wahiawa	Fan Coil Unit (FC18B)	3		Mitsubishi	PLFY-P18NBMU-E			
17	Wahiawa Armory	Wahiawa	Fan Coil Unit (FC24B)	1		Mitsubishi	PLFY-P24NBMU-E			
18	Wahiawa Armory	Wahiawa	Fan Coil Unit (FC30B)	1		Mitsubishi	PLFY-P30NBMU-E			
19	Wahiawa Armory	Wahiawa	Fan Coil Unit (FC36B)	4		Mitsubishi	PLFY-P36NBMU-E			
20	Wahiawa Armory	Wahiawa	Fan Coil Unit (FC6C)	22		Mitsubishi	PLFY-P06NBMU-E			
21	Wahiawa Armory	Wahiawa	Fan Coil Unit (FC8C)	1		Mitsubishi	PLFY-P08NBMU-E			
22	Wahiawa Armory	Wahiawa	Fan Coil Unit (FC12C)	1		Mitsubishi	PLFY-P12NBMU-E			
23	Wahiawa Armory	Wahiawa	Fan Coil Unit (FC15C)	1		Mitsubishi	PLFY-P15NBMU-E			
24	Wahiawa Armory	Wahiawa	Fan Coil Unit (FC6D)	1		Mitsubishi	PLFY-P06NBMU-E			
25	Wahiawa Armory	Wahiawa	Supply Fan (SF-1A)	1	Rm 104A	Fantech	FR-140			
26	Wahiawa Armory	Wahiawa	Supply Fan (SF-3A)	1	Rm 117	Fantech	FR-200			
27	Wahiawa Armory	Wahiawa	Supply Fan (SF-3B)	1	Rm 133	Fantech	FR-250			
28	Wahiawa Armory	Wahiawa	Supply Fan (SF-6A)	1	Rm 141	Fantech	FR-225			
29	Wahiawa Armory	Wahiawa	Supply Fan (SF-6B)	1	Rm 156	Fantech	FR-125			
30	Wahiawa Armory	Wahiawa	Supply Fan (SF-6C)	1	Rm 156	Fantech	FR-150			
1	Classrooms Bldg 710	RTI Bellows AFS, Waimanalo	ACCU-2	1		Trane			Qty 24	Qty 2
2	Classrooms Bldg 710	RTI Bellows AFS, Waimanalo	AHU-2	1						
3	Classrooms Bldg 710	RTI Bellows AFS, Waimanalo	ACCU-3	1		LG				
4	Classrooms Bldg 710	RTI Bellows AFS, Waimanalo	FCU3	2						
5	Classrooms Bldg 710	RTI Bellows AFS, Waimanalo	ACCU4	1		LG				
6	Classrooms Bldg 710	RTI Bellows AFS, Waimanalo	FCU4	2						
7	Classrooms Bldg 710	RTI Bellows AFS, Waimanalo	VFD	1						
1	Administrative Bldg 711	RTI Bellows AFS, Waimanalo	ACCU-1	1		Trane				
2	Administrative Bldg 711	RTI Bellows AFS, Waimanalo	AHU-1	1		Trane			Qty 16	Qty 2
3	Administrative Bldg 711	RTI Bellows AFS, Waimanalo	VFD	1						
1	Dining Facility Bldg 712	RTI Bellows AFS, Waimanalo	ACCU-3	1		Trane				
2	Dining Facility Bldg 712	RTI Bellows AFS, Waimanalo	AHU-3	1		Trane			Qty 16	Qty 2
3	Dining Facility Bldg 712	RTI Bellows AFS, Waimanalo	VFD	1						
1	Auditorium Bldg. 713	RTI Bellows AFS, Waimanalo	ACCU-2	1		Trane				
2	Auditorium Bldg. 713	RTI Bellows AFS, Waimanalo	AHU-2	1		Trane			Qty 20	Qty 2
3	Auditorium Bldg. 713	RTI Bellows AFS, Waimanalo	VFD	1						
1	Army Lodging #1 Bldg 714	RTI Bellows AFS, Waimanalo	ACCU-1	2	Outside	Carrier		3201F03411		
2	Army Lodging #1 Bldg 714	RTI Bellows AFS, Waimanalo	AHU-1B	1	Billet #1 (Ground Floor)	Trane			Qty 12	Qty 2
3	Army Lodging #1 Bldg 714	RTI Bellows AFS, Waimanalo	AHU-1D	1	Billet #1 (2nd Floor)	Trane				
4	Army Lodging #1 Bldg 714	RTI Bellows AFS, Waimanalo	VFD							
1	Physical Fitness/Office Bldg 715	RTI Bellows AFS, Waimanalo	ACCU-4	1		Trane				
2	Physical Fitness/Office Bldg 715	RTI Bellows AFS, Waimanalo	ACCU-5	1						
3	Physical Fitness/Office Bldg 715	RTI Bellows AFS, Waimanalo	FCU-1	1	Billet Physical Fitness (134)					
4	Physical Fitness/Office Bldg 715	RTI Bellows AFS, Waimanalo	FCU-2	1	Billet Office (140)					

Equipment Item #	Bldg.	Location	Description	Qty.	Building Location	Make	Model	Serial	Filter (Model no, Qty)	Belt (Model No, Qty)
5	Physical Fitness/Office Bldg 715	RTI Bellows AFS, Waimanalo	Mini Split	1		Fujitsu			N/A	DD
1	Army Lodging #2 Bldg 716	RTI Bellows AFS, Waimanalo	ACCU-1	2	Outside	Carrier		3201F03394		
2	Army Lodging #2 Bldg 716	RTI Bellows AFS, Waimanalo	AHU-1A	1	Billet #2 (Ground Floor)	Trane	MCCA017UBA00000U		Qty 12	Qty 2
3	Army Lodging #2 Bldg 716	RTI Bellows AFS, Waimanalo	AHU-1C	1	Billet #2 (2nd Floor)	Trane			Qty 12	Qty 2
4	Army Lodging #2 Bldg 716	RTI Bellows AFS, Waimanalo	VFD							
1	300	Diamond Head, Fort Ruger	Split-System FCU-1	1	Rm. 4	Carrier	40QNB018300	1798Y50793	Washable	D/D
2	300	Diamond Head, Fort Ruger	Split-System ACCU-1	1	Outside	Carrier	38HDC018341	1200DX85337		D/D
3	300	Diamond Head, Fort Ruger	Split-System FCU-2 (24,200 BTUH)	1	Rm 3	Fujitsu	ASU24CL1	GDA 025807		
4	300	Diamond Head, Fort Ruger	Split-System ACCU-2	1	Outside	Fujitsu	AOU24CL1	GDN 026077		
5	300	Diamond Head, Fort Ruger	Split-System FCU-3	1	Rm 5	Carrier	40QNB009100	15199Y41049	Washable	D/D
6	300	Diamond Head, Fort Ruger	Split-System ACCU-3	1	Outside	Carrier	38HX1009100	0899Y10010		D/D
7	300	Diamond Head, Fort Ruger	Split-System FCU-4	1	Rm. 8	Carrier	40QNB018310	1798Y50796	Washable	D/D
8	300	Diamond Head, Fort Ruger	Split-System ACCU-4	1	Outside	Carrier	38HDC018341	1200X85340		D/D
9	300	Diamond Head, Fort Ruger	Split-System FCU-5	1	Rm. 9A	Carrier	40QNB009100	1599Y41044	Washable	D/D
10	300	Diamond Head, Fort Ruger	Split-System ACCU-5	1	Outside	Carrier	38HN009100	0899Y10015		D/D
11	300	Diamond Head, Fort Ruger	Split-System FCU-6	1	Rm. 9B	Carrier	40QNB024300	0499Y50200	Washable	D/D
12	300	Diamond Head, Fort Ruger	Split-System ACCU-6	1	Outside	Carrier	38HDC02431	0200XB1318		D/D
13	300	Diamond Head, Fort Ruger	Split-System FCU-7	1	Rm. 10	Carrier	40QNB009100	1599Y41057	Washable	D/D
14	300	Diamond Head, Fort Ruger	Split-System ACCU-7	1	Outside	Carrier	38HN009100	0899Y10038		D/D
15	300	Diamond Head, Fort Ruger	Split-System FCU-8 (24,200 BTUH)	1	Rm 12	Fujitsu	ASU24CL 1	GOA 025906		
16	300	Diamond Head, Fort Ruger	Split-System ACCU-8	1	Outside	Fujitsu	AOU24CL1	GDN 025954		
17	300	Diamond Head, Fort Ruger	Split-System FCU-9	1	Rm 12-A-1	Carrier	40QNB024300	0499Y50199	Washable	D/D
18	300	Diamond Head, Fort Ruger	Split-System ACCU-9	1	Outside	Carrier	38HDC024331	0200XB1324		D/D
19	300	Diamond Head, Fort Ruger	Split-System FCU-10	1	Rm. 12-A-2	Carrier	40QNB024300	0499Y50288	Washable	D/D
20	300	Diamond Head, Fort Ruger	Split-System ACCU-10	1	Outside	Carrier	38HDC024331	0200X81320		D/D
21	300	Diamond Head, Fort Ruger	Split-System FCU-11	1	Rm. 12-B-1	Carrier	40QNB024300	0499Y50286	Washable	D/D
22	300	Diamond Head, Fort Ruger	Split-System ACCU-11	1	Outside	Carrier	38HDC024331	0200X81327		D/D
23	300	Diamond Head, Fort Ruger	Split-System FCU-12	1	Rm 12-B-2	Carrier	40QNB024300	0499Y50133	Washable	D/D
24	300	Diamond Head, Fort Ruger	Split-System ACCU-12	1	Outside	Carrier	38HDC024331	0200X81321		D/D
25	300	Diamond Head, Fort Ruger	Split-System FCU-13	1	Rm. 13	Carrier	40QNB018300	176BY20794	Washable	D/D
26	300	Diamond Head, Fort Ruger	Split-System ACCU-13	1	Outside	Carrier	38HDC018341	1200X85338		D/D
27	300	Diamond Head, Fort Ruger	Split-System FCU-14	1	Rm. 14	Fujitsu	AOU36CLX1	HBN 022428		
28	300	Diamond Head, Fort Ruger	Split-System ACCU-14	1	Outside	Fujitsu	ASU36CLX1	HBA 022530		
29	300	Diamond Head, Fort Ruger	Split-System FCU-15	1	Rm. 15	Carrier	40QNB024300	4499Y50397	Washable	D/D
30	300	Diamond Head, Fort Ruger	Split-System ACCU-15	1	Outside	Carrier	38HDC024331	2700X93914		D/D
31	300	Diamond Head, Fort Ruger	Split-System FCU-16	1	Rm. 19	Carrier	40QNB009100	1599841053	Washable	D/D
32	300	Diamond Head, Fort Ruger	Split-System ACCU-16	1	Outside	Carrier	38HN009100	0899Y10039		D/D
33	300	Diamond Head, Fort Ruger	Split-System FCU-17	1	Rm. 24	Carrier	N/A	N/A	Washable	D/D
34	300	Diamond Head, Fort Ruger	Split-System ACCU-17	1	Outside	Carrier	38AN009100	0098Y10040		D/D
35	300	Diamond Head, Fort Ruger	Split-System FCU-18	1	Rm. 25	Carrier	N/A	N/A	Washable	D/D
36	300	Diamond Head, Fort Ruger	Split-System ACCU-18	1	Outside	Carrier	38AN009100	0899Y10050		D/D
37	300	Diamond Head, Fort Ruger	Split-System FCU-19	1	Rm. 26A	Fujitsu	ASU30C1	8352	Washable	D/D
38	300	Diamond Head, Fort Ruger	Split-System ACCU-19	1	Outside	Fujitsu	AOU30C1	A0N006280		D/D
39	300	Diamond Head, Fort Ruger	Split-System FCU-20	1	Rm. 26B	Carrier	40QNB009100	1599Y41085	Washable	D/D
40	300	Diamond Head, Fort Ruger	Split-System ACCU-20	1	Outside	Carrier	38AN009100	0899Y10012		D/D
41	300	Diamond Head, Fort Ruger	Split-System FCU-21	1	Rm. 26C	Fujitsu	ASU30C1	8352	Washable	D/D
42	300	Diamond Head, Fort Ruger	Split-System ACCU-21	1	Outside	Fujitsu	AOU30C1	A0N0063226		D/D
43	300	Diamond Head, Fort Ruger	Split-System FCU-22A	1	Rm 32	Fujitsu	ASU15RLS2	JSA 039884		
44	300	Diamond Head, Fort Ruger	Split-System FCU-22B	1	Rm 33	Fujitsu	ASU9RLF1	MXA 034321		
45	300	Diamond Head, Fort Ruger	Split-System FCU-22C	1	Rm 34	Fujitsu	ASU9RLF1	MXA 034327		
46	300	Diamond Head, Fort Ruger	Split-System ACCU-22	1	Outside	Fujitsu	AOU36RLXFZ1	LVN 036144		
47	300	Diamond Head, Fort Ruger	Split-System ACCU-23	1	Outside	Fujitsu	AOU36RLXFZ1	LVN 036143		
48	300	Diamond Head, Fort Ruger	Split-System FCU-23A	1	Rm 35	Fujitsu	ASU15RLS2	JSA 039881		
49	300	Diamond Head, Fort Ruger	Split-System FCU-23B	1	Rm 36	Fujitsu	ASU9RLF1	MXA 029540		
50	300	Diamond Head, Fort Ruger	Split-System FCU-23C	1	Rm 37	Fujitsu	ASU9RLF1	MXA 034318		
51	300	Diamond Head, Fort Ruger	Split-System FCU-24	1	Rm. 38A	Carrier	40HQNB024300	0301X99872	Washable	D/D
52	300	Diamond Head, Fort Ruger	Split-System ACCU-24	1	Rm. 38A	Carrier	38HDC024331	0301X99872		D/D
53	300	Diamond Head, Fort Ruger	Split-System FCU-25	1	Rm. 38B	Carrier	40HQNB024300	0200X81398	Washable	D/D
54	300	Diamond Head, Fort Ruger	Split-System ACCU-25	1	Rm. 38B	Carrier	38HDC024331	0200X81398		D/D
55	300	Diamond Head, Fort Ruger	Split-System ACCU-26 (12,000 BTUH)	1	Outside	Fujitsu	AOU12RLFW1	MYN 009384		
56	300	Diamond Head, Fort Ruger	Split-System FCU-26	1	Rm. 39A	Fujitsu	ASU12RLFW1	MYA 020319		
57	300	Diamond Head, Fort Ruger	Split-System FCU-27	1	Rm. 39B	Carrier	40QNB024300	4499X51259	Washable	D/D
58	300	Diamond Head, Fort Ruger	Split-System ACCU-27	1	Rm. 39B	Carrier	38HDC024331	0301X99884		D/D
59	300	Diamond Head, Fort Ruger	Split-System FCU-28	1	Rm. 40	Carrier	40QNB024300	4499X50392	Washable	D/D
60	300	Diamond Head, Fort Ruger	Split-System ACCU-28	1	Outside	Carrier	38HDC024331	2700X93910		D/D
61	300	Diamond Head, Fort Ruger	Split-System FCU-29	1	Rm. 46	Ambiance	AS18CR3FM	N/A	Washable	D/D
62	300	Diamond Head, Fort Ruger	Split-System ACCU-29	1	Outside	Ambiance	AS18CR3FM	9239000020		D/D
63	300	Diamond Head, Fort Ruger	Split-System FCU-30	1	Rm. 47A	Fujitsu	AOU12RLFW1	MYN 009809		
64	300	Diamond Head, Fort Ruger	Split-System ACCU-30	1	Outside	Fujitsu	ASU12RLFW1	MYA 020298		
65	300	Diamond Head, Fort Ruger	Split-System FCU-31	1	Rm. 47B	Carrier	40QNB024300	1300Y42034	Washable	D/D
66	300	Diamond Head, Fort Ruger	Split-System ACCU-31	1	Outside	Carrier	3BHDC024331	1452X19846		D/D
67	300	Diamond Head, Fort Ruger	Split System	24						

Equipment Item #	Bldg.	Location	Description	Qty.	Building Location	Make	Model	Serial	Filter (Model no, Qty)	Belt (Model No, Qty)
1	407	Diamond Head Crater, Ft Ruger	Air Cooled Chiller (CH1)	1	Outside	RAETECH	30A0CS8	03-05-077363	N/A	N/A
2	407	Diamond Head Crater, Ft Ruger	Air Cooled Chiller (CH2)	1	Outside	RAETECH	30A0CS8	N/A	N/A	N/A
3	407	Diamond Head Crater, Ft Ruger	Chill water pump (CHWP1)	1						
4	407	Diamond Head Crater, Ft Ruger	Chill water pump (CHWP2)	1						
4	407	Diamond Head Crater, Ft Ruger	AHU #1	1		Carrier	N/A	N/A		
5	407	Diamond Head Crater, Ft Ruger	AHU #2	1	Rm. 104	Carrier	N/A	N/A	1-1BX25X1	1-A26
6	407	Diamond Head Crater, Ft Ruger	AHU #3	1	Rm 103	Carrier	N/A	N/A	1-16X2SX1	1-A26
7	407	Diamond Head Crater, Ft Ruger	FCU #1	1	Rm 103A	Carrier	42CE6BRCY6A.	N/A	1-10X40X1	D/D
8	407	Diamond Head Crater, Ft Ruger	FCU #2	1	Rm 103B	Carrier	42CE6BRCY8A	N/A	1-10X40X1	D/D
9	407	Diamond Head Crater, Ft Ruger	FCU #3	1	Rm 104A					
10	407	Diamond Head Crater, Ft Ruger	Condensate pump	1	Hallway					
11	407	Diamond Head Crater, Ft Ruger	Utility exhaust fan	1	Generator Room		N/A	N/A		1-A43
12	407	Diamond Head Crater, Ft Ruger	AHU	1	Server Rm.	Liebert	MMD363P0ED0	0504N102767	1-16X25X2	D/D
13	407	Diamond Head Crater, Ft Ruger	Dry Cooler	1	Hallway	Liebert	MCD38W3PH3	050012N105225	NIA.	D/D
14	407	Diamond Head Crater, Ft Ruger	AHU#1	1	Hallway	Carrier	39LB03AAATAMJAG	0805U0188	2-16X25X2	1-A21
1	306	Diamond Head Rd, Ft. Ruger	Water Cooled Chiller (CH-1)	1	Bldg 306A Mech Rm					
2	306	Diamond Head Rd, Ft. Ruger	Cooling Tower (CT-1)	1	Outside Bldg 306A					
3	306	Diamond Head Rd, Ft. Ruger	Air Handler Unit (AH 1-1)	1						
4	306	Diamond Head Rd, Ft. Ruger	Air Handler Unit (AH 1-2)	1						
5	306	Diamond Head Rd, Ft. Ruger	Air Handler Unit (AH 1-3)	1						
6	306	Diamond Head Rd, Ft. Ruger	Air Handler Unit (AH 1-4)	1						
7	306	Diamond Head Rd, Ft. Ruger	Air Handler Unit (AH 1-5)	1						
8	306	Diamond Head Rd, Ft. Ruger	Air Handler Unit (AH 2-1)	1						
9	306	Diamond Head Rd, Ft. Ruger	Air Handler Unit (AH 2-2)	1						
10	306	Diamond Head Rd, Ft. Ruger	Air Handler Unit (AH 2-4)	1						
11	306	Diamond Head Rd, Ft. Ruger	Air Handler Unit (AH 2-5)	1						
12	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 1-1)	1						
13	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 1-1A)	1						
14	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 1-2)	1						
15	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 1-3)	1						
16	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 1-4)	1						
17	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 1-5)	1						
18	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 1-6)	1						
19	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 1-7)	1						
20	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 1-8)	1						
21	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 1-9)	1						
22	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 1-10)	1						
23	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 2-1)	1						
24	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 2-2)	1						
25	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 2-3)	1						
26	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 2-3A)	1						
27	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 2-3B)	1						
28	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 2-4)	1						
29	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 2-5)	1						
30	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 2-6)	1						
31	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 2-7)	1						
32	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 2-8)	1						
33	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 2-9)	1						
34	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 2-10)	1						
35	306	Diamond Head Rd, Ft. Ruger	Fan Coil Unit (FC 2-11)	1						
36	306	Diamond Head Rd, Ft. Ruger	Exhaust Fan (EF-1)	1	Bldg 306A Mech Rm					
37	306	Diamond Head Rd, Ft. Ruger	Chilled Water Pump (CHWP-1)	1	Bldg 306A Mech Rm					
38	306	Diamond Head Rd, Ft. Ruger	Chilled Water Pump (CHWP-2)	1	Bldg 306A Mech Rm					
39	306	Diamond Head Rd, Ft. Ruger	Condenser Water Pump (CDWP-1)	1	Bldg 306A Mech Rm					
40	306	Diamond Head Rd, Ft. Ruger	Condenser Water Pump (CDWP-1)	1	Bldg 306A Mech Rm					
41	306	Diamond Head Rd, Ft. Ruger	VFD	4						
1	306A	Diamond Head Rd, Ft. Ruger	FCU-1	1	Computer Room	Liebert			Qty 4 each	
2	306A	Diamond Head Rd, Ft. Ruger	ACCU-1	1	Outside	Liebert				
2	306A	Diamond Head Rd, Ft. Ruger	FCU-2	1	Computer Room	Liebert			Qty 4 each	
3	306A	Diamond Head Rd, Ft. Ruger	ACCU-2	1	Outside	Liebert				
3	306A	Diamond Head Rd, Ft. Ruger	FCU-3	1	Computer Room	Liebert			Qty 4 each	
4	306A	Diamond Head Rd, Ft. Ruger	ACCU-3	1	Outside	Liebert				
5	306A	Diamond Head Rd, Ft. Ruger	ACCU-4	1	Serves 1st Floor Offices	Fujitsu	AOU24CL			
6	306A	Diamond Head Rd, Ft. Ruger	FCU-4	1	Serves 1st Floor Offices	Fujitsu	ASU24CL			
7	306A	Diamond Head Rd, Ft. Ruger	ACCU-5	1	Serves 1st Floor Offices	Fujitsu	AOU24CL			
8	306A	Diamond Head Rd, Ft. Ruger	FCU-5	1	Serves 1st Floor Offices	Fujitsu	ASU24CL			
9	306A	Diamond Head Rd, Ft. Ruger	ACCU-6	1	Serves 1st Floor Offices	Fujitsu	AOU36RML			
10	306A	Diamond Head Rd, Ft. Ruger	FCU-6	1	Serves 1st Floor Offices	Fujitsu	ASU12RMLQ			
11	306A	Diamond Head Rd, Ft. Ruger	ACCU-7	1	Serves 1st Floor Offices	Fujitsu	ASU12RMLQ			
12	306A	Diamond Head Rd, Ft. Ruger	FCU-7	1	Serves 1st Floor Offices	Fujitsu	ASU9RMLQ			
13	306A	Diamond Head Rd, Ft. Ruger	ACCU-8	1	Serves 1st Floor Offices	Fujitsu	AOU36CLX			

Equipment Item #	Bldg.	Location	Description	Qty.	Building Location	Make	Model	Serial	Filter (Model no, Qty)	Belt (Model No, Qty)
14	306A	Diamond Head Rd, Ft. Ruger	FCU-8	1	Serves 1st Floor Offices	Fujitsu	ASU36CLX			
15	306A	Diamond Head Rd, Ft. Ruger	ACCU-9	1	Serves 1st Floor Offices	Fujitsu	AOU36RML			
16	306A	Diamond Head Rd, Ft. Ruger	FCU-9	1	Serves 1st Floor Offices	Fujitsu	ASU9RMLQ			
17	306A	Diamond Head Rd, Ft. Ruger	ACCU-10	1	Serves 1st Floor Offices	Fujitsu	ASU9RMLQ			
18	306A	Diamond Head Rd, Ft. Ruger	FCU-10	1	Serves 1st Floor Offices	Fujitsu	ASU12RMLQ			
19	306A	Diamond Head Rd, Ft. Ruger	ACCU-11	1	Serves 1st Floor Offices	Fujitsu	AOU36CLX			
20	306A	Diamond Head Rd, Ft. Ruger	FCU-11	1	Serves 1st Floor Offices	Fujitsu	ASU36CLX			
21	306A	Diamond Head Rd, Ft. Ruger	ACCU-12	1	Serves 1st Floor Offices	Fujitsu	AOU36CLX			
22	306A	Diamond Head Rd, Ft. Ruger	FCU-12	1	Serves 1st Floor Offices	Fujitsu	AOU36CLX			
23	306A	Diamond Head Rd, Ft. Ruger	ACCU-13	1	Serves 1st Floor Offices	Fujitsu	AOU36CLX			
24	306A	Diamond Head Rd, Ft. Ruger	FCU-13	1	Serves 1st Floor Offices	Fujitsu	AOU36CLX			
25	306A	Diamond Head Rd, Ft. Ruger	ACCU-14	1	Serves 2nd Floor Offices	Fujitsu	AOU24CL			
26	306A	Diamond Head Rd, Ft. Ruger	FCU-14	1	Serves 2nd Floor Offices	Fujitsu	ASU24CL			
27	306A	Diamond Head Rd, Ft. Ruger	ACCU-15	1	Serves 2nd Floor Offices	Fujitsu	AOU36CLX			
28	306A	Diamond Head Rd, Ft. Ruger	FCU-15	1	Serves 2nd Floor Offices	Fujitsu	ASU36CLX			
29	306A	Diamond Head Rd, Ft. Ruger	ACCU-16	1	Serves 2nd Floor Offices	Fujitsu	AOU36RMLQ			
30	306A	Diamond Head Rd, Ft. Ruger	FCU-16A	1	Serves 2nd Floor Offices	Fujitsu	ASU9RMLQ			
31	306A	Diamond Head Rd, Ft. Ruger	FCU-16B	1	Serves 2nd Floor Offices	Fujitsu	ASU9RMLQ			
32	306A	Diamond Head Rd, Ft. Ruger	FCU-16C	1	Serves 2nd Floor Offices	Fujitsu	ASU9RMLQ			
33	306A	Diamond Head Rd, Ft. Ruger	FCU-16D	1	Serves 2nd Floor Offices	Fujitsu	ASU9RMLQ			
34	306A	Diamond Head Rd, Ft. Ruger	ACCU-17	1	Serves 2nd Floor Offices	Fujitsu	AOU36RML			
35	306A	Diamond Head Rd, Ft. Ruger	FCU-17A	1	Serves 2nd Floor Offices	Fujitsu	ASU12RMLQ			
36	306A	Diamond Head Rd, Ft. Ruger	FCU-17B	1	Serves 2nd Floor Offices	Fujitsu	ASU12RMLQ			
37	306A	Diamond Head Rd, Ft. Ruger	FCU-17C	1	Serves 2nd Floor Offices	Fujitsu	ASU9RMLQ			
38	306A	Diamond Head Rd, Ft. Ruger	ACCU-18	1	Serves 2nd Floor Offices	Fujitsu	AOU36RML			
39	306A	Diamond Head Rd, Ft. Ruger	FCU-18A	1	Serves 2nd Floor Offices	Fujitsu	ASU12RMLQ			
40	306A	Diamond Head Rd, Ft. Ruger	FCU-18B	1	Serves 2nd Floor Offices	Fujitsu	ASU12RMLQ			
41	306A	Diamond Head Rd, Ft. Ruger	FCU-18C	1	Serves 2nd Floor Offices	Fujitsu	ASU9RMLQ			
42	306A	Diamond Head Rd, Ft. Ruger	ACCU-19	1	Serves 2nd Floor Offices	Fujitsu	AOU36RML			
43	306A	Diamond Head Rd, Ft. Ruger	FCU-19A	1	Serves 2nd Floor Offices	Fujitsu	ASU12RMLQ			
44	306A	Diamond Head Rd, Ft. Ruger	FCU-19B	1	Serves 2nd Floor Offices	Fujitsu	ASU12RMLQ			
45	306A	Diamond Head Rd, Ft. Ruger	FCU-19C	1	Serves 2nd Floor Offices	Fujitsu	ASU9RMLQ			
46	306A	Diamond Head Rd, Ft. Ruger	ACCU-20	1	Serves 2nd Floor Offices	Fujitsu	AOU36CLX			
47	306A	Diamond Head Rd, Ft. Ruger	FCU-20	1	Serves 2nd Floor Offices	Fujitsu	ASU36CLX			
48	306A	Diamond Head Rd, Ft. Ruger	ACCU-21	1	Serves 2nd Floor Offices	Fujitsu	AOU36RML			
49	306A	Diamond Head Rd, Ft. Ruger	FCU-21A	1	Serves 2nd Floor Offices	Fujitsu	ASU12RMLQ			
50	306A	Diamond Head Rd, Ft. Ruger	FCU-21B	1	Serves 2nd Floor Offices	Fujitsu	ASU12RMLQ			
51	306A	Diamond Head Rd, Ft. Ruger	FCU-21C	1	Serves 2nd Floor Offices	Fujitsu	ASU9RMLQ			
52	306A	Diamond Head Rd, Ft. Ruger	ACCU-22	1	Serves 2nd Floor Offices	Fujitsu	AOU36CLX			
53	306A	Diamond Head Rd, Ft. Ruger	FCU-22	1	Serves 2nd Floor Offices	Fujitsu	ASU36CLX			
54	306A	Diamond Head Rd, Ft. Ruger	ACCU-23	1	Serves 2nd Floor Offices	Fujitsu	AOU36CLX			
55	306A	Diamond Head Rd, Ft. Ruger	FCU-23	1	Serves 2nd Floor Offices	Fujitsu	ASU36CLX			
56	306A	Diamond Head Rd, Ft. Ruger	ACCU-24	1	Serves 2nd Floor Offices	Fujitsu	AOU36RML			
57	306A	Diamond Head Rd, Ft. Ruger	FCU-24A	1	Serves 2nd Floor Offices	Fujitsu	ASU9RMLQ			
58	306A	Diamond Head Rd, Ft. Ruger	FCU-24B	1	Serves 2nd Floor Offices	Fujitsu	ASU9RMLQ			
59	306A	Diamond Head Rd, Ft. Ruger	FCU-24C	1	Serves 2nd Floor Offices	Fujitsu	ASU9RMLQ			
60	306A	Diamond Head Rd, Ft. Ruger	ACCU-25	1	Serves 2nd Floor Offices	Fujitsu	AOU36CLX			
61	306A	Diamond Head Rd, Ft. Ruger	FCU-25A	1	Serves 2nd Floor Offices	Fujitsu	ASU12RMLQ			
62	306A	Diamond Head Rd, Ft. Ruger	FCU-25B	1	Serves 2nd Floor Offices	Fujitsu	ASU12RMLQ			
63	306A	Diamond Head Rd, Ft. Ruger	FCU-25C	1	Serves 2nd Floor Offices	Fujitsu	ASU12RMLQ			
64	306A	Diamond Head Rd, Ft. Ruger	Split-System FCU-26	1	Rm. G4	Carrier	FG3AAA038	0898V270	2-16X25X2	1-A36
65	306A	Diamond Head Rd, Ft. Ruger	Split-System ACCU-26	1	Outside	Carrier	36CKB030300	13N6E20578	N/A	N/A
66	306A	Diamond Head Rd, Ft. Ruger	Split-System FCU-27	1	Rm. D11	Trane	TWE1205300AB	E23176068	4-18X25X1	1-B49
67	306A	Diamond Head Rd, Ft. Ruger	Split-System ACCU-27	1	Outside	Trane	TTA120B400EA	40443YNAD	N/A	N/A
68	306A	Diamond Head Rd, Ft. Ruger	VRF System (Joint Staff Area)	1	Outside	Mitsubishi	PUHY-P144YKMU-A-8S			
69	306A	Diamond Head Rd, Ft. Ruger	FCU 155-1	1	Rm 155	Mitsubishi	PLFY-P12NCMU-E			
70	306A	Diamond Head Rd, Ft. Ruger	FCU 155-2	1	Rm 155	Mitsubishi	PLFY-P12NCMU-E			
71	306A	Diamond Head Rd, Ft. Ruger	FCU 155-3	1	Rm 155	Mitsubishi	PLFY-P12NCMU-E			
72	306A	Diamond Head Rd, Ft. Ruger	FCU 228-4	1	Rm 228	Mitsubishi	PLFY-P12NCMU-E			
73	306A	Diamond Head Rd, Ft. Ruger	FCU 237-5	1	Rm 237	Mitsubishi	PLFY-P12NCMU-E			
74	306A	Diamond Head Rd, Ft. Ruger	FCU 240-6	1	Rm 240	Mitsubishi	PLFY-P12NCMU-E			
75	306A	Diamond Head Rd, Ft. Ruger	FCU 240-7	1	Rm 240	Mitsubishi	PLFY-P12NCMU-E			
76	306A	Diamond Head Rd, Ft. Ruger	FCU 240-8	1	Rm 240	Mitsubishi	PLFY-P12NCMU-E			
77	306A	Diamond Head Rd, Ft. Ruger	FCU 240-9	1	Rm 240	Mitsubishi	PLFY-P12NCMU-E			
78	306A	Diamond Head Rd, Ft. Ruger	FCU 240-10	1	Rm 240	Mitsubishi	PLFY-P12NCMU-E			
79	306A	Diamond Head Rd, Ft. Ruger	FCU 240-11	1	Rm 240	Mitsubishi	PMFY-P06NBMU-E			
80	306A	Diamond Head Rd, Ft. Ruger	FCU 240-7	1	Rm 240	Mitsubishi	PLFY-P12NCMU-E			

APPENDIX G: ADDENDUM TO APPENDIX F (ADDITIONAL EQUIPMENT
LIST) AND INFORMATION TO BE CONSIDERED IN THE
COST ESTIMATES

Building 19, Kalaeloa
1 – ACCU Mitsubishi
3 - FCU
1 – Mini split ACCU, Mitsubishi (Arms vault)
1 – FCU, Mitsubishi
Building UTES 21
4 – Mini split ACCU
Building 29
4 - VFD
Building 46, Kalaeloa
3 – Mini split ACCU, Mitsubishi
3 – FCU Mitsubishi
1 – Mini split ACCU, Fujitsu
1 – FCU Fujitsu
1 – AHU VFD
Notes: New Chiller is “Trane”
CHW pump and remote condenser not included
Building 117 (Low Bay Comm Room), Kalaeloa
1 – Mini split, Fujitsu
1 – Dual zone, Mitsubishi
1 – four (4) VFD
Building 117B
1 – Cooling Tower
Building 175, Kalaeloa
1 – Mini split, Fujitsu
Building 306
12 - VFD
Battery Tunnel 407
1 – Carrier chiller with pump package
Note: 1 – RAETECH Chiller already removed

(APPENDIX G CONTINUED)
Building 1785, Kalaeloa
1 – ACCU/VRF, Mitsubishi
5 - FCU, Mitsubishi
Note: AHUs already removed from the building
Building 1788 (Conference Room/ Office), Kalaeloa
1 – ACCU/VRF, Mitsubishi
3 – FCU, Mitsubishi
1 – new Carrier chillier with pump package
1 – Trane chiller with one CW pump
Building. 1788, (Inspectors’ Office), Kalaeloa
1 – Mini split, Friedrich
1 – FCU, Friedrich
Note: Retain EFs
Building 1874, Kalaeloa
5 – ACCU/VRF, Mitsubishi
16 – FCU, Mitsubishi
Building 1898
1 – Trane chiller
7 - VFD

APPENDIX H: ADDENDUM TO APPENDIX G (ADDITIONAL EQUIPMENT
LIST AND FINDINGS AFTER THE SITE WALKTHROUGH)

Building 19, Kalaeloa
1 – ACCU Mitsubishi
1 – Mini Split, Friedrich
1 – FCU, Friedrich
Note: Reduce 3-FCU listed on Appendix G to only
2- FCU.
UTES Building 21
2 – Split AC
2 - FCU
5 – Exhaust Fans
Building 30
1 – Chiller, Carrier
1 – Chiller, York
2 – Air Handling Units with Supply and Return
(Roof mounted)
4 – CW Pumps
4 – Exhaust Fans (Hangar Building)
1 – Ducted Split
1 – AHU (Communication Room)
Building 1785
1 – Mini Split
1 - FCU
1 – Variable Refrigerant Flow Unit (VRF)
5 - FCU
Building 1788
2 – Mini Splits
2 - FCU
1 – Variable Refrigerant Flow (VRF)
2 - FCU
Building 1898
1 – Mini Split, Fujitsu
1 - FCU
1 – Mini Split, Mitsubishi
1 - FCU

(APPENDIX H CONTINUED)
Building 1903
1 – Mini Split, Mitsubishi
1 - FCU
RTI Building 714A (Simulator Bldg.)
2 – Split AC, Mitsubishi
2 - FCU
Wahiawa Armory
1 – Mini Split
1 - FCU
***** Nothing Follows *****

Notes: The following findings during the site walkthrough must be considered in the interested Bidders' cost estimates:

Building 117 B (Kalaeloa):

1. Use of twenty-four (24') feet high Scissors Lift to service equipment inside one of the Rooms of Building 117B (Work Bay).
2. Use of Man Lift (with extendable boom) equipment to reach and service roof mounted Exhaust Fans and other equipment.

Building 117, Low Bay Bldg. (Kalaeloa)

1. Use of twelve (12') feet A-Frame ladder to reach and service equipment above and inside ceiling.

Building 30, Aviation Bldg. (Kalaeloa):

1. Use of thirty-two (32') feet Scissors Lift to service overhead equipment inside the Hangar.

PRE-BID CONFERENCE AND SITE WALKTHROUGH ATTENDANCE LIST

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PRE-BID CONFERENCE AND SITE WALKTHROUGH ATTENDANCE LIST

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PRE-BID CONFERENCE AND SITE WALKTHROUGH ATTENDANCE LIST

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PRE-BID CONFERENCE AND SITE WALKTHROUGH ATTENDANCE LIST

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