

JORDAN VALLEY WATER CONSERVANCY DISTRICT

**BID DOCUMENTS FOR:**

**JVWCD HVAC & MECHANICAL  
MAINTENANCE SERVICES**

**JULY 2021 - JUNE 2022**

**OWNER**

Jordan Valley Water Conservancy District  
8215 South 1300 West  
West Jordan, Utah 84088-9422

**PROJECT MANAGER**

Steven S Crawford

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## NOTICE INVITING BIDS

**SUMMARY OF WORK:** The Jordan Valley Water Conservancy District (JVWCD) desires to receive bids for routine maintenance on its HVAC and Mechanical Equipment located at various sites within its service area. This work shall entail the service of JVWCD's HVAC equipment and appurtenant equipment as described herein for six main buildings at the JVWCD's Headquarters complex. These buildings are: Administration Office (Bldg. 'A'), Maintenance Building (Bldg. 'B'), Southwest Ground Water Treatment Plant (SWGWT, Bldg. 'C'), Vehicle & Equipment Maintenance Building (Bldg. 'D'), Vehicle and Equipment Storage (Bldg. E), and the Education Center Building. Associated with buildings 'A' and 'C' are housed enclosures & process buildings. Also, included for these services are two treatment plants, a pump station, and a storage facility at other locations: the Jordan Valley Water Treatment Plant (JVWTP) in Herriman, the Southeast Regional Water Treatment Plant (SERWTP) in Sandy, the Jordan Narrows Pump Station (JNPS) in Bluffdale, and the Terminal Reservoir site in West Jordan. The JVWTP and SERWTP also have associated process buildings that contain equipment that shall be included under the services to be provided.

**OBTAINING BID DOCUMENTS:** The bid documents for the JVWCD HVAC & Mechanical Maintenance Services may be downloaded from the Owner's website [www.jvwcd.org](http://www.jvwcd.org) after 10am, on Wednesday, July 21, 2021. Prospective bidders are required to register as explained on the website to receive project notifications and addenda, if any. Contractors are required to acknowledge they have received such notification or addenda, as a part of their bid, as provided under the "Bid" portion of these documents.

**SITE OF WORK:** The work will take place at five (5) separate locations:

- JVWCD Headquarters Complex at 8215 South 1300 West, West Jordan, Utah 84088.
- Jordan Valley Water Treatment Plant (JVWTP) at 15305 South 3200 West, Herriman, Utah 84065.
- Southeast Regional Water Treatment Plant (SERWTP) at 11574 South Wyndcastle Drive (2580 East), Sandy, Utah 84092.
- Jordan Narrows Pump Station (JNPS) at 17040 South 985 West, Bluffdale, Utah 84065.
- Terminal Reservoir Site at 5820 South 3815 West, West Jordan, Utah

**PRE-BID SITE VISIT:** A non-mandatory pre-bid meeting and site(s) visits will start at the Owner's office at 9:00am on Thursday, June 29, 2021, at which time all buildings listed in these documents will be visited and the tasks under the Scope of Work and Description of Work herein discussed. This will require travel to the addresses noted in the Site of Work previously listed.

## NOTICE INVITING BIDS

**COMPLETION OF WORK:** Work shall be completed, as noted and scheduled, for the duration of the contract as described in the Summary of Work, Scope of Work, and Description of Work herein.

**AWARD OF CONTRACT:** An Award of Contract, if it were awarded, will be made within 30 calendar days of the opening of bids.

**ADDRESSES AND MARKING OF DELIVERED BID:** The envelope enclosing the bids shall be sealed and addressed to the Jordan Valley Water Conservancy District and delivered or mailed to 8215 South 1300 West, West Jordan, Utah 84088. The envelope shall be plainly marked in the upper left-hand corner with the name and address of the bidder and shall bear the words "Bid for," followed by the title of the 'Bid Documents' for the work, and the date and hour of the opening of bids.

**RECEIPT OF BIDS:** Sealed Bids for JWCD HVAC & Mechanical Maintenance Services will be received at the office of the Jordan Valley Water Conservancy District, located at 8215 South 1300 West, West Jordan, Utah 84088, until 3:00 pm, on Thursday, August 19, 2021.

**OPENING OF BIDS:** The bids will be opened and recorded at the time and date identified under Receipt of Bids above.

**PROJECT ADMINISTRATION:** All questions relative to this request for bids shall be directed to the Owner's representative, Steve Crawford (801-565-4333) or [stevec@jvwcd.org](mailto:stevec@jvwcd.org). It shall be understood, however, that no interpretations of this bid document will be made by telephone. Clarifications to this document shall be provided to all prospective bidders to the email addresses obtained as noted under Obtaining Bid Documents.

## **INSTRUCTIONS TO BIDDERS**

**FORM OF BID:** The bid shall be made on the bidding schedule(s) bound herein. The bid shall be enclosed in a sealed envelope bearing the name of the bidder and name of the project (JVWCD HVAC & Mechanical Maintenance Services).

**DELIVERY OF BID:** The bid shall be delivered by the time and to the place stipulated in the Notice Inviting Bids. It is the bidder's sole responsibility to see that its bid is received in proper time.

**WITHDRAWAL OF BIDS:** Bids shall be unconditionally accepted without alteration or correction, excepting that bidder may by means of written request, signed by the bidder or its properly authorized representative, withdraw its bid. Such written request must be delivered to the place stipulated in the Notice Inviting Bids prior to the scheduled closing time for the receipt of bids.

**OPENING OF BIDS:** The bids will be opened and recorded at the time and date noted in the Receipt of Bids under the Notice Inviting Bids.

**MODIFICATIONS AND ALTERNATIVE BIDS:** Unauthorized conditions, limitations, or provisions attached to a bid may render it non-responsive and may cause its rejection. The completed bid forms shall be without interlineations, alterations, or erasures. Alternative bids will not be considered unless called for. Oral, telegraphic, or telephonic bids or modifications will not be considered.

**DISCREPANCIES IN BIDS:** In the event there is more than one bid item in a bidding schedule, the bidder shall furnish a price for all bid items in the schedule. Failure to do so may render the bid non-responsive and subject to rejection. In the event, there are unit price bid items in a bidding schedule and the "amount" indicated for a unit price bid item does not equal the product of the unit price and quantity, the unit price shall govern and the "Total Price" indicated will be corrected accordingly, and the Contractor shall be bound by said correction. In the event, there is more than one bid item in a bidding schedule and the total indicated for the schedule does not agree with the sum of the prices bid on the individual items, the prices bid on the individual items shall govern and the total for the schedule will be corrected accordingly, and the Contractor shall be bound by said correction.

**OWNER'S RIGHTS RESERVED:** The JVWCD reserves the right to reject any or all bids, to waive any informality in a bid, and to make awards in the interest of the Owner. Furthermore, the Owner reserves the right to delete any items from the Description of Work or delete any item from the Bid Schedule.

## INSTRUCTIONS TO BIDDERS

**QUANTITIES OF WORK:** Neither the Bidders nor the ultimate Contractor on the Project shall at any time after the submittal of a bid, make or have any claim for damages or anticipated profits or loss of profit or otherwise because of any difference between the quantities of work done and material furnished and those stated in said unit price items of the Bid.

**COMPETENCY OF BIDDERS:** In selecting the lowest responsible Bidder, consideration will be given to the general competency of the Bidder for the performance of the work covered by the Bid. To this end, each bid shall be supported by a statement of the bidder's experience as of recent date on the form entitled "Information Required of Bidder" bound herein. No bid for the work will be accepted from a contractor who does not hold an active business' license in good standing applicable to the type of work bid upon at the time of opening bids.

**DISQUALIFICATION OF BIDDERS:** More than one bid from an individual, firm partnership, corporation, or association under the same or different names will not be considered. Reasonable grounds for believing that any bidder is interested in more than one bid for the work contemplated will cause the rejection of all bids in which such bidder is interested. If there is reason for believing that collusion exists among the bidders, all bids will be rejected.

**AWARD OF CONTRACT:** Award of the Contract, if it be awarded, will be based primarily on the lowest overall cost to the Owner, and will be made to a responsive and responsible bidder whose bid complies with all the requirements prescribed herein. Any such award will be made by written notice and within 30 calendar days after opening of the bids, unless a different waiting period is expressly allowed in the Notice Inviting Bids. Unless otherwise indicated, an award will not be made for less than all the bid items in an individual bidding schedule.

**EXECUTION OF CONTRACT:** The Bidder, to whom the award is made, shall execute a written contract with the Owner on the form of agreement provided. Contractor shall have secured all insurance and certificates required by the specifications before the opening of bids and shall secure any bonds (if required) by the specifications within 10 calendar days after receipt of the Notice of Award from the Owner. Failure or refusal to enter into a contract as herein provided or to conform to any of the stipulated requirements in connection therewith shall be just cause for annulment of the award and forfeiture of the bid guarantee. If the successful bidder refuses or fails to execute the contract, the Owner may award the contract to the second lowest responsible bidder or reject all bids and re-advertise this work for rebidding. If the second lowest responsible bidder refuses or fails to execute the contract, the Owner may award the contract to the third lowest responsible bidder. On the failure or refusal of such second or third lowest bidder to execute the contract, each such bidder's guarantees shall be likewise forfeited to the Owner.

## INSTRUCTIONS TO BIDDERS

The contract for the services detailed herein are valid for one year from the date of contract. The contract is renewable at the Owner's sole discretion, without amendment regarding the scope of work (detailed in the Description of Work) for up to four additional years. Contractor can continue performing the work agreed upon in the original contract only after written authorization from the District.

The pricing for each annual renewal period may be adjusted for inflation using for such adjustment the United States Bureau of Labor and Statistics Consumer Price Index (CPI).

The District reserves the right to discontinue services at any time if the work noted herein is not being performed as agreed, with no liabilities or cost to the District.

**PAYMENT:** Payment for the services performed under this contract shall be invoiced semi-annually after services have been performed and invoiced to the Owner on the Contractor's official invoice/letterhead. Payment shall be invoiced according to the following:

- Administration Headquarters Campus (Bldgs. A, B, D, E, & Education Center)
- Southwest Ground Water Treatment Plant (SWGWTP) (Bldg. C)
- Jordan Valley Water Treatment Plant (JVWTP)
- Southeast Regional Water Treatment Plant (SERWTP)
- Jordan Narrows Pump Station (JNPS)
- Terminal Reservoir Storage Structure

Describe in said invoice any departure from the Description of Services. Owner shall not pay for additional services performed by Contractor without prior written authorization.





**BID**

**BID TO:**     JORDAN VALLEY WATER CONSERVANCY DISTRICT

The undersigned Bidder hereby proposes to furnish all labor, services, materials, equipment, tools, cleaning & lubrication supplies, transportation, utilities, and all other items and facilities necessary to perform all work required under the Bidding Schedule of the Owner's Contract Documents entitled "JVWCD HVAC & Mechanical Maintenance Services" and all addenda issued by said Owner prior to opening of the bids.

The undersigned bidder acknowledges receipt of the following addenda:

<u>No.</u>	<u>Date Received</u>	<u>No.</u>	<u>Date Received</u>
_____	_____	_____	_____
_____	_____	_____	_____

Bidder agrees that, within 10 calendar days after receipt of Award of Purchase Order from Owner, will execute the Award of Purchase Order in the required form, of which the Notice Inviting Bids, Instructions to Bidders, Bid, Information Required of Bidder, Description of Work, Product Specifications, and all addenda issued by Owner prior to the opening of bids, are a part, and will secure the required insurance and bonds and furnish the required insurance certificates. It is further understood that this bid may not be withdrawn for a period of 45 days after the date set for the opening thereof, unless otherwise required by law.

Dated: \_\_\_\_\_

Bidder: \_\_\_\_\_

By: \_\_\_\_\_  
(Signature)

Title: \_\_\_\_\_

Bidder further agrees to complete all work required under the contract within the time stipulated in the Contract Documents, and to accept in full payment therefore the price(s) named in the above-mentioned Bidding Schedule(s).

**BID**

Company Name Here

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**BID SCHEDULE**

	<b>Buildings requiring HVAC &amp; Mechanical Maintenance Services</b>	<b>Units</b>	<b>Unit Price</b>	<b>x No. of Events</b>	<b>= Total Price</b>
1-	Administration Building (Bldg. 'A')	Semi- Annual	\$ _____	2	\$ _____
2-	Maintenance Office Building (Bldg. 'B')	Semi- Annual	\$ _____	2	\$ _____
3-	SWGW Treatment Plant (Bldg. 'C')	Semi- Annual	\$ _____	2	\$ _____
4-	Vehicle Maintenance Building (Bldg. 'D')	Semi- Annual	\$ _____	2	\$ _____
5-	Vehicle & Equipment Storage (Bldg. 'E')	Semi Annual	\$ _____	2	\$ _____
6-	Education Center	Semi Annual	\$ _____	2	\$ _____
7-	JV Water Treatment Plant	Semi- Annual	\$ _____	2	\$ _____
8-	SER Water Treatment Plant	Semi- Annual	\$ _____	2	\$ _____
9-	Jordan Narrows Pump Station	Semi- Annual	\$ _____	2	\$ _____
10-	Terminal Reservoir Storage	Semi Annual	\$ _____	2	\$ _____

**Bid Schedule - Yearly Total \$ \_\_\_\_\_**

**Yearly Total in Words: \_\_\_\_\_**

**INFORMATION REQUIRED OF BIDDER**

Bidder (Company name): \_\_\_\_\_

By: \_\_\_\_\_ Dated: \_\_\_\_\_  
(Signature)

Name: \_\_\_\_\_ Title: \_\_\_\_\_  
(Print)

The Bidder shall furnish the following information. Failure to comply with this requirement may render the Bid non-responsive and subject to rejection. Additional sheets shall be attached as required.

- 1. Bidder's name and address: \_\_\_\_\_
- 2. Bidder's telephone number: \_\_\_\_\_  
FAX number: \_\_\_\_\_
- 3. Business/Contractor's Utah License Number: \_\_\_\_\_  
  
Primary Classification: \_\_\_\_\_

Note: It is the responsibility of the Contractor to obtain the license classification necessary for the required work prior to submitting a bid.

- 4. Number of years as a Contractor in work of this type:  
\_\_\_\_\_
- 5. Name and title of officers of Bidder's company:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- 6. Bidder shall abide by the Utah Mechanical Contractors Association (UMCA) standards.

## INFORMATION REQUIRED OF BIDDER

7. TO THIS BID the experience resume of the person who will be designated superintendent for the work.

Name of superintendent: \_\_\_\_\_

8. Attach to your bid references of three Owners for which similar work has been completed in the last two years. The list shall include the following information as a minimum:

- Brief description of the work - Location of Work involved
- Name of Owner - Contract amount
- Address and telephone number - Date of completion of contract of Owner
- Name of Owner's contact

9. The District maintains locked fencing and other security measures at the sites of the Work and the HVAC & Mechanical Services Provider shall exercise care in keeping the sites secure during the Work. The HVAC & Mechanical Services Provider shall submit information, including but not limited to, a copy of valid State Identification or Driver's License on all employees involved in the Work. The Owner reserves the right to perform criminal background checks on Contractor's employees as allowed by Federal and State laws.

## SCOPE OF WORK

It is the intent of this document to provide a description of the minimum preventive maintenance (PM) work to be provided on the HVAC and appurtenant equipment at the district facilities. A thorough PM service by a responsive and responsible service provider is the desire of the district to extend the life and efficiency of its equipment. Items that are not specifically listed in this document that are needed to fulfill a thorough PM requirement does not relieve the Service Provider from performing these preventive maintenance needs on any equipment that this document has the intent to cover. Such items may be discussed during the Pre-bid Site Visit(s). All work shall be performed in accordance with the following guidelines listed under the Description of Work. The bidder shall furnish all tools, materials and supplies necessary to perform the tasks listed under these guidelines.

All work associated with this contract will be performed semi-annually. Work shall take place during the months of October/November in the Fall, and April/May in the Spring.

Services described herein shall be performed during normal working hours (Monday through Friday between the hours of 6am and 6pm) unless previous arrangements have made and agreed upon between the Service Provider and the Owner. Should the Service Provider request that arrangements be made to perform any of the services outside of normal working hours, the services performed will not necessitate additional costs.

Only qualified personnel that are directly employed or supervised by the Service Provider will be eligible to perform these services.

A completed copy of the periodic maintenance inspection report for each of the buildings listed under the Bid Schedule shall be provided to the Owner after services have been rendered. Should any malfunctions and/or item(s) in need of repair which are not included in this Scope of Work be revealed because of the inspections and services provided, a complete report shall be furnished to the Owner with recommendations as to the necessary corrective measures or repairs needed. Said repairs will not be considered part of the Service Contract. The Owner will consider the recommendations and may schedule the work with the Service Provider, with District personnel, or another Agency as the Owner sees fit.

All reasonable measures to avoid damage to property or injuries to persons shall be taken by the Contractor/Service Provider. When the need of additional help and/or supervisory services are required, the Service Provider shall make sure this help is provided and shall consider it part of this service contract. For work not already included in this Scope of Work, the Service Provider shall provide an Itemized Proposal for the additional services and submit it to the Owner for authorization before the additional work may commence.

The Service Provider shall include in its services, instruction to the Owner's designees on the basic operation of the system(s) to obtain the most efficient operation of the equipment and appurtenances during all weather conditions.

## **SCOPE OF WORK**

Changing air filters shall be done on all HVAC equipment semi-annually by the contractor. Air filters shall be provided by the Owner. If it is found that the filter(s) on any equipment need changing more frequent, the Owner will provide this service.

## DESCRIPTION OF WORK

### A) A/C Wall Units

- 1) Check and clean filters (if metal mesh)
- 2) Replace fiber filters (if applicable)
- 3) Clean coils
- 4) Lubricate all applicable moving parts
- 5) Check for proper operating thermostat (if applicable)
- 6) Check unit operation

### B) Air Blowers

- 1) Lubricate bearings and motor
- 2) Check belts (if applicable) Replace as needed
- 3) Check safe guard over belts and secure (if applicable)
- 4) Check pulleys for wear and alignment (if applicable)
- 5) Remove, clean, & reinstall replaceable filters (if applicable)
- 6) Replace fiber filters (if applicable)
- 7) Check unit operation

### C) Air Handling Units & Energy Recovery Ventilators

- 1) Check and adjust belts (if applicable). Replace as needed
- 2) Inspect and lubricate bearing(s) and motor(s)
- 3) Clean and inspect condition of coils
- 4) Check associated dampers and actuators for correct operation. Visually inspect linkage – clean and lubricate as necessary
- 5) Inspect compressor components. Check for leaks. Check system pressures
- 6) Verify operation of freeze stat
- 7) Check condensate pan(s) and drain lines – clean as needed
- 8) Replace filters
- 9) Check thermostats for proper operation. Install new batteries (if applicable)
- 10) Verify operation and adjust temperature settings as needed

### D) Air Supply Fans / Air Transfer Fans / Ventilation Fans

- 1) Check and adjust belts (if applicable). Replace as needed
- 2) Make sure belt guards are in place (if applicable)
- 3) Lubricate motor, bearings and bushings
- 4) Check electrical connections and wiring
- 5) Inspect condition of motor
- 6) Check condition of fan blades. Check for correct rotation
- 7) Inspect linkage of associated vents or louvers – Clean & lubricate as needed
- 8) Check unit operation

### E) Boilers (Hot Water)

- 1) Inspect interior of boiler – clean as needed
- 2) Clean condensate trap(s) and fill with fresh water (if applicable)
- 3) Check for leaks (water, gas, condensate)
- 4) Check for leaks on pumps & motors / Lubricate
- 5) Clean strainers (if applicable)

## DESCRIPTION OF WORK

- 6) Inspect make-up water system
- 7) Verify flue, breeching, and diverter are in good condition, clean, and sealed tight
- 8) Check flue gas temperature and content
- 9) Check system water pressure, system piping, and expansion tank
- 10) Inspect and log gauge pressures
- 11) Check control settings
- 12) Check ignition & flame sense electrodes (remove deposits, clean & reposition).  
Replace as necessary / at SERWTP Replace Annually (filter Bldg. & Actiflo)
- 13) Inspect refractory and replace as required
- 14) Inspect associated valves for leaks and condition
- 15) Inspect wiring and electrical connections
- 16) Inspect gas train safety devices and controls
- 17) Check flame signal
- 18) Check and adjust combustion & flame efficiency (perform on cold day)
- 19) Inspect and operate pressure relief valve(s)
- 20) Inspect and test low water cut-off and clean as needed
- 21) Perform nitrate tests for proper percent concentration
- 22) Clean the heat exchanger(s) (Fall Service)
- 23) Remove and clean burner using compressed air only (Fall Service)
- 24) Adjust burners as needed
- 25) Clean the blower wheel (Fall Service)
- 26) Perform 'Fall' start-up and 'Spring' shutdown service

### F) Boiler Circulation Pumps / Circulation Pumps

- 1) Inspect and lubricate as needed
- 2) Inspect packing (if applicable)
- 3) Check couplers for wear (if applicable)
- 4) Check electrical connections
- 5) Inspect vibration isolators (if applicable)
- 6) Check drives and operation

### G) Chillers and Condensing Units / Control Panels

- 1) Check condition and operation of condenser fan(s)
- 2) Clean and inspect condenser coil(s) – use pressurized water to clean
- 3) Inspect and lubricate motor(s), bearings, and mechanical components
- 4) Check refrigeration controls and safety devices
- 5) Check refrigerant charge by sub cooling and super heat
- 6) Check and record inlet & outlet operating pressures and temperatures
- 7) Check electrical connections, wiring, and fuse holders
- 8) Check contactors for wear
- 9) Inspect refrigeration components for leaks and damage
- 10) Check operation of low ambient controls (if applicable)
- 11) Check tightness of all connections
- 12) Clean and check alignment of starter / contactors
- 13) Inspect for 'hot spots'
- 14) Check and lubricate associated recirculation pumps



## DESCRIPTION OF WORK

- 15) Check glycol concentration (Fall service)
- 16) Check dash pot oil levels and change oil filter (if applicable)
- 17) Sample and analyze oil (Spring service)
- 18) Inspect all associated valving
- 19) Check calibration of system gauges (if applicable) – clean as needed
- 20) Check calibration and output of transformer current (if applicable)
- 21) Check calibration of controls and control set points
- 22) Sequence controls and unloaders
- 23) Check crankcase heater (if applicable)
- 24) Check Drive coupling (if applicable)
- 25) Check motor air intake (if applicable)

### H) Compressors

- 1) Check pulleys for wear and alignment
- 2) Inspect belts and adjust tension as needed
- 3) Check and clean filters – replace as needed
- 4) Lubricate motor and bearings
- 5) Check Operation

### I) Evaporative Coolers

- 1) Visually leak check unit
- 2) Check evaporator pads (replace as needed)
- 3) Check belts for tension, wear, cracks, and glazing (replace as needed)
- 4) Lubricate blower motor, bearings, linkage, etc.
- 5) Inspect electrical connections and wiring
- 6) Flush header manifold and make sure all water ports are free and clear
- 7) Turn on water supply and check system for proper water flows (Spring Service)
- 8) Turn off water supply and ensure system is drained (Fall Service)
- 9) Check Operation of unit (Spring Service)

### J) Exhaust Fans / Air Relief Fans

- 1) Check and adjust belts (if applicable) – replace as needed
- 2) Check alignment of pulleys (if applicable) – adjust as needed
- 3) Lubricate motor, bearings and bushings
- 4) Inspect motor and bearings condition
- 5) Make sure belt guards are in place (if applicable)
- 6) Inspect electrical connections, contacts, and wiring
- 7) Inspect starter (if applicable)
- 8) Check operating amps
- 9) Check fan blades for condition and proper rotation
- 10) Inspect rain guard for damage (if applicable)
- 11) Inspect linkage of associated vents or louvers. Clean & lubricate as needed
- 12) Clean fan blades and airways if airborne particulate build-up is excessive
- 13) Check overall operation of unit

## DESCRIPTION OF WORK

### K) Fan Coil Units

- 1) Lubricate motor, bearings, and moving parts
- 2) Replace air filter(s) (if applicable)
- 3) Inspect and adjust belts (if applicable)
- 4) Inspect all associated valves
- 5) Inspect burners, igniters and pilots (if applicable)
- 6) Inspect flue and diverter (if applicable)
- 7) Inspect refrigerant system and controls
- 8) Inspect safety controls and all electrical connections
- 9) Inspect condensate pans and drains – clean as needed
- 10) Check operation of thermostats and install new batteries (if applicable)
- 11) Check Operation and control set points

### L) Glycol Systems

- 1) Check status of glycol levels and operation of auto-feed

### M) Heat Exchangers

- 1) Check for leaks and damage

### N) Heat Pumps

- 1) Lubricate motor, bearings, and moving parts
- 2) Replace air filter(s)
- 3) Inspect and adjust belts (if applicable)
- 4) Inspect all associated valves
- 5) Inspect refrigerant system and controls
- 6) Inspect condenser
- 7) Inspect safety controls
- 8) Inspect condensate pans and drains – clean as needed
- 9) Inspect and clean heating/cooling coils
- 10) Check head pressure control
- 11) Check strainer – clean as needed
- 12) Check reversing valve & thermostat operation
- 13) Check operation of thermostats. Install new batteries (if applicable)
- 14) Check unit operation

### O) Humidifiers

- 1) Check unit for scale build-up – clean as needed
- 2) Check unit for proper water level, distribution, and drainage
- 3) Clean and check strainer (if applicable)
- 4) Replace internal bottle as needed
- 5) Check and clean manifold (if applicable)
- 6) Check and clean heating elements
- 7) Clean and check trap, sump, and drain
- 8) Check voltages and verify proper operation of heating element
- 9) Check humidification discharge apparatus
- 10) Verify operation of humidity control device

## DESCRIPTION OF WORK

### P) Louvers / Dampers / Vents

- 1) Check linkage. Lubricate as needed.
- 2) Check operation of motorized louvers, dampers, and vents

### Q) Radiant Heaters / Cabinet Heaters

- 1) Check and replace filters as needed
- 2) Lubricate motors / bearings (if applicable)
- 3) Blowout radiant heater elements with low pressure air
- 4) Inspect associated valves and safety controls
- 5) Inspect burners, igniters, and pilots
- 6) Inspect flue and diverters (if applicable)
- 7) Inspect all electrical connections
- 8) Check Operation

### R) Refrigerant Management Units

- 1) Check operation of auto feed (if applicable)
- 2) Check all piping and fittings for leaks
- 3) Check associated valves for leaks and condition

### S) Roof Top Units

- 1) Check belts for tension, wear, cracks, and glazing (replace if needed)
- 2) Check pulleys for wear and alignment (if applicable)
- 3) Verify economizer operation (if applicable)
- 4) Check mechanical linkages for wear, tightness, and clearances
- 5) Clean and inspect condenser and evaporator – check system for leaks
- 6) Inspect evaporator fan
- 7) Lubricate motor(s), bearings, and mechanical components
- 8) Check compressor oil levels
- 9) Inspect safety controls
- 10) Inspect contactors, electrical connections, and wiring
- 11) Inspect vibration isolators (if applicable)
- 12) Verify operation of compressor oil heater(s)
- 13) Verify operation of combustion air flow device (if applicable)
- 14) Verify operation of the flame detection device (if applicable)
- 15) Verify the burner sequence of operation (if applicable)
- 16) Verify proper gas pressure to the unit (if applicable)
- 17) Measure temperature rise and compare with nameplate data of unit
- 18) Clean metal mess air filters – Replace fiber air filters
- 19) Inspect all associated valves for leaks and condition
- 20) Inspect and clean burners, ignitors and pilots (if applicable)
- 21) Inspect flue and diverter (if applicable)
- 22) Inspect refrigerant system and controls
- 23) Inspect and clean condensation pan(s) and drain(s)
- 24) Record voltage and amperage readings on work order
- 25) Check thermostat for proper operation – replace batteries (if applicable)

## DESCRIPTION OF WORK

### T) Solar Collectors

- 1) To be serviced by others

### U) Split System Heat Pumps (Ductless)

- 1) Clean metal mesh filters (if applicable)
- 2) Replace fiber filters (if applicable)
- 3) Inspect condition of coils
- 4) Check and clean condensate pan (if applicable)
- 5) Check all connections for tightness and leaks
- 6) Check electrical connections
- 7) Check Operation

### V) Unit Heaters

- 1) Lubricate fan motor and bearings
- 2) Inspect all associated valves
- 3) Inspect safety controls
- 4) Inspect burners, igniters, and pilots (if applicable)
- 5) Inspect flue and diverter (if applicable)
- 6) Inspect all electrical connections
- 7) Check thermostats for proper operation. Install new batteries (if applicable)
- 8) Check Operation

### W) VAV Boxes / VAVR Boxes

- 1) Service as needs arise
- 2) Clean metal mesh filters (if applicable)
- 3) Replace fiber filters (if applicable)
- 4) Lubricate mechanical linkage and components as needed
- 5) Check unit for proper operation

### X) Water Heaters

- 1) Check venting system
- 2) Check / Clean burners
- 3) Manual operation of PRV
- 4) Clean water strainer
- 5) Clean thermistor of mineral deposits
- 6) Cleanout condensate traps
- 7) Flush (annually)

### Y) Water Pumps

- 1) Check operation

## SCHEDULE OF EQUIPMENT

### Administration Building (A)

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
Water Heaters	Eternal	GU195S/508	G1211017	West Mech Rm (South)
Water Heater	Eternal	GU195S/508	G1205474	West Mech Rm (North)
Air Handling Unit	McQuay	LSL122DH	3TL00460-04	West Mech Rm (South)
Air Handling Unit	McQuay	LSL117DH	3TL341-04	West Mech Rm (North)
Air Handling Unit	McQuay	LSL122DH	3TL00459-04	East Mech Rm (South)
Air Handling Unit	McQuay	LSL117DH	3TL00340-04	East Mech Rm (North)
Boiler Pump (3HP) 80gpm	Bell & Gossett	Size 1531	187035LFM11	East Mech Rm (N/E)
Boiler Pump (3HP) 80gpm	Bell & Gossett	Size 1531	187035LFM11	East Mech Rm (N/W)
Boiler Pump (15HP) 270gpm	Bell & Gossett	Size 1531 BF	C157373-02K21	East Mech Rm (S/E)
Boiler Pump (15HP) 270gpm	Bell & Gossett	Size 1531 BF	C157373-01K21	East Mech Rm (S/W)
Boiler (2.5 MBTU/Hr)	Rite	250WG	8821379	East Mechanical Room
Boiler (2.5 MBTU/Hr)	Rite	250WG	8821379	East Mechanical Room
Split Sys Heat Pump	Mitsubishi	PKA-A36KA4	2YM02721	Server Room (North)
Split Sys Heat Pump	Mitsubishi	PKA-A36FAL2	84A00007C	Server Room (South)
Heat Pump	Trane	2TEC3F42B1000AA	71513Y81V	East Hall of Board Rm
Heat Pump	Trane	2TEC3F42B1000AA	7151SXXN1V	West Mech Rm (2 <sup>nd</sup> floor)
Condensing Unit	Trane	2TTA3036A3000AA	7053L283F	North of Admin (Bldg A)
Condensing Unit	Trane	2TTA3036A3000AA	7091NCT3F	North of Admin (Bldg A)
Condensing Unit	York	CZF03613CA	W1F1093599	North of Admin (Bldg A)
Condensing Unit	Carrier	38HDC036321	0800X83591	North-East Admin Bldg A
Condensing Unit	Mitsubishi	PUY-A18NNA4	24U05709C	South-East Admin Bldg A
Condensing Unit	Mitsubishi	PUY-A36NHA2	8XU01005A	South-East Admin Bldg A

## SCHEDULE OF EQUIPMENT

### **Administration Building (A)**

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
Condensing Unit	Mitsubishi	PUY-A18NHA4	2ZU08988A	South-East Admin BldgA
Split Sys Heat Pump	Mitsubishi	PKA-A18HA4	19A03958D	Janitorial Rm / East Mech
Air handling Unit	York	AVG48D3XH21CA	AIE1994229	EOC (Emergency Oper Ctr)
Air Handling Unit	Carrier ?	FG3AAA036000AAAA	1000V31617	East-Front Conference Rm

### **South Repeater Antenna Area**

Chiller (104.4 Tons)	McQuay	AGZ125DHNN-ER10	STNU120500114	Radio Antenna/ So.of Admin
Split Sys Heat Pump	Mitsubishi	PKA-A12HA6	5XA04140A	Bldg Enclosure @ Chiller
Condensing Unit	Mitsubishi	PUY-A12NHA6	43U02419B	Bldg Enclosure @ Chiller

### **Maintenance Building (B)**

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
Air Handling Unit	Trane	CSAA035UAC00	K11H92969	Mech. Room (Bldg B)
Air Cooled Chiller	Trane	CGAM60	U11H24927	South end–East side BldgB
Boiler	Lochinvar/Knight-XL	KBN601	H11H10195533	Mech. Rm. West (Bldg B)
Boiler	Lochinvar/Knight-XL	KBN601	H11H10194431	Mech. Rm. East (Bldg B)
Boiler Pump (3HP) 80gpm	FLO FAB	2000-F8156	166827	Mech. Room (Bldg B)
Boiler Pump (3HP) 80gpm	FLO FAB	2000-F8156	166827	Mech. Room (Bldg B)
Chilled Water Pump (5HP) 140gpm	FLO FAB	2000-F1020A	166827	Mech. Room (Bldg B)
Heat Pump Fan Coil	DAIKIN	FAQ18PVJU	E000392	Electrical Room (Bldg B)
Condensing Unit	DAIKIN	RZR18PVJU	A000139	Front South End (Bldg B)
Heat Pump Fan Coil	DAIKIN	FAQ18PVJU	E000383	IT Room (Bldg B)
Condensing Unit	DAIKIN	RZR18PVJU	A000131	Front South End (Bldg B)
Chilled Water Fan Coil	Trane	FCC8100	T11G42855	Exercise Area (Bldg B)

## SCHEDULE OF EQUIPMENT

### Maintenance Building (B)

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
Glycol System	JL Wingert Co.	GL50-2E1-1		Mech. Room (Bldg B)
VAV Boxes (22)	Price	SDV		Ceiling Plenums
Exhaust Fan (820 CFM)	ILG (restroom)	(Roof Mount)		Roof (Bldg B)
Exhaust Fan (640 CFM)	ILG (restroom)	(Roof Mount)		Roof (Bldg B)
Exhaust Fan (Belt)	ILG (Meter Shop)	(Roof Mount)		Roof (Bldg B)
Exhaust Fan (Belt)	ILG (I&C Shop)	(Roof Mount)		Roof (Bldg B)
Exhaust Fan (Belt)	ILG (P/M Shop)	(Roof Mount)		Roof (Bldg B)
Cabinet Unit Heater	Trane	FCDB040		Meter Shop (Bldg B)
Unit Heater (Gas)	Sterling Radiator	QVF-150	Q8854802	Warehouse (S/E)
Unit Heater (Gas)	Sterling Radiator	QVF-150	Q8854805	Warehouse (N/W)
Unit Heater (Gas)	Sterling Radiator	QVF-150		Warehouse (N/E)

### Vehicle Maintenance Building (D)

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
Condensing Unit (F-1)	Trane	4TTM3036A1000AA	11265R6PAA	O/S North-East End Bldg D
Condensing Unit (F-2)	Trane	4TTM3060A1000AA	10152X45AA	O/S North-East End Bldg D
Condensing Unit (F-3)	Trane	4TTM3048A1000AA	10404W6KAA	O/S North-East End Bldg D
Condensing Unit (F-4)	Trane	4TTM3060A1000AA	10151NHRAA	O/S North-East End Bldg D
Chiller	DAIKIN	RCS045DYyyy	FBOU170701413	O/S North-East End Bldg D
Air Handling Unit	Trane	CSAA030UAC00	K11G85902	East Mech Rm 2 <sup>nd</sup> flr Bldg D
Exhaust Fan (CO)	ILG	BCL-18	C055013	SWCorner O/S Paint Booth
Unit Heater (Gas)				N/E Corner O/S Paint Booth
Air Handler (F-4)	Trane	4TXCD061BC3HCAA	11283JYM5G	Mech Rm 2 <sup>nd</sup> floor Bldg D
Air handler (F-3)	Trane	4TXCC049BC3HCAA	11085XT55G	Mech Rm 2 <sup>nd</sup> floor Bldg D

## SCHEDULE OF EQUIPMENT

### Vehicle Maintenance Building (D)

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
Air handler (F-2)	Trane	4TXCD061BC3HCAA	11283J245G	Mech Rm 2 <sup>nd</sup> floor Bldg D
Air handler (F-1)	Trane	4TXCB036BC3HCAA	11163D6L5G	Mech Rm 2 <sup>nd</sup> floor Bldg D
Water Heater	American	DCG3280T1806N	96 3620050	Mech Rm 2 <sup>nd</sup> floor Bldg D
Exhaust Fan	Greenheck	8-097-B-X	1257361D	Bldg D Roof (to Elect Rm)
Exhaust Fans (Qty 2) (2340 CFM)	Cook	ACW-B		South Side (Bldg D)
Exhaust Fan	ILG	(Roof Mount)		Veh. Shop Roof S-W Corner
Radiant Heating System (8 filters)				Vehicle Shop

### Vehicle/Equipment Storage Building (E)

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
Ventilation Fan (Belt)	ILG	(Roof Mount w/underside Auto Louver)		Equip. Storage Roof
Ventilation Fan (Belt)	ILG	(Roof Mount w/underside Auto Louver)		Lg. Veh. Storage Roof
Ventilation Fan (Belt) Roof	ILG	(Roof Mount w/underside Auto Louver)		Sm. Veh. Storage
Automated Louvers (interconnected with Ventilation Fan) (2)				West & East Walls (ES)
Automated Louvers (interconnected with Ventilation Fan) (2)				West & East Walls (LVS)
Automated Louvers (interconnected with Ventilation Fan) (2)				West & East Walls (SVS)
Unit Heater (Gas) (2)				Sm. Veh. Storage (Center)
Unit Heater (Gas) (2)	Modine			Lg. Veh. Storage (Center)
Unit Heater (Gas) (2)				Equip. Storage (Center)



## SCHEDULE OF EQUIPMENT

### Education Center

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
VRV Fan Coil Units (with Amair 1300 Filters)	Mitshubishi (3)	PV FY-P30E00A		Education Ctr. Lobby
	Mitshubishi (3)	PV FY-P30E00A		Education Ctr. Lobby
	Mitshubishi (1)	PE FY-P36NMHU-E		Ed. Ctr. Main Entry
	Mitshubishi (1)	PD FY-P-24NMU-E		Education Ctr. Shop
	Mitshubishi (6)	PD FY-P06NMU-E		Break Rm, Offices, Restrooms
VRV Fan Coil Units (with Amair 1300 Filters)	Mitshubishi (1)	PD FY-P-15NMU-E		Ed. Ctr. Open Office Area
	Mitshubishi (3)	PV FY-P36E00A		Ed. Ctr. Meeting Rooms
Compressor Units	Mitshubishi (3)	PQRY-P96TGMU-A		Ed. Ctr. Mech. Room
Energy Recovery Ventilator	Renewaire	HE3XINV		Ed. Ctr. Mech. Room
Heat Pump (water-to-water)	Florida Heat Pump	WW072-03		Ed. Ctr. Mech. Room
Heat Exchanger	Flat Plate	10x20 L		Ed. Ctr. Mech. Room
Solar Collector (2)	Viessmann	Vitosol 200F SVZ		Ed. Ctr. Mech. Room
Circulation Pumps	Bell & Gossett			Ed. Ctr. Mech. Room
Refrigerant Management Unit (2)	Mitshubishi	CMB-P105NU-GA		Main Entry & Mtg Rms
Refrigerant Management Unit (1)	Mitshubishi	CMB-P108NU-GA		Offices
Exhaust Fan (2)	Cook	125 REBE		Kitchen/Restroom/Break Rm.
Air Control Dampers	Ruskin (13)	CDRS25		Education Center
Air Cooled Condensing Unit	Mitshubishi	PUY-A30NHA3	04U00839C	O/S for Electrical Room
Air Cooled Condensing Unit	Mitshubishi	PUY-A30NHA3	04U00836C	O/S for Data Room
Fan Coil Unit	Mitshubishi	PKFY-P08NBMU-E	99A00940D	Data Room
Fan Coil Unit	Mitshubishi	PKA-A30KA	04M00294	Electrical Room

## SCHEDULE OF EQUIPMENT

**SWGWT** (Scissor Lift to be supplied by Contractor for work at this site)

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
<b><u>Tower Building</u></b>				
Blower	Verantis	CLUB-3650	3-315-001	South wall - Tower Bldg.
Radiant Heaters (4)	Honeywell			Each Corner of Tower Bldg.
<b><u>By-Product Building</u></b>				
Roof Exhaust Fan (2)				By-Product Bldg. Roof (East)
Radiant Heaters (3)	Honeywell			By-Product Bldg Pump Rm
Wall Louvers (5)				By-Product Bldg Pump Rm
Condensing Unit	Trane	TTA120F4HUAA	11032XDTYA	By-Product Bldg (East Side)
Air Handling Unit	Trane	TWE120D300AA	10505LONBA	By-Product Bldg Elect. Rm
Wall Louvers				By-Prod. Bldg. Generator Rm
<b><u>Main Building</u></b>				
Exhaust Fan	Greenheck	BSQ-130-4	12407047 1104	Main Bldg Fluoride Room
Exhaust Fan				Main Bldg Chemical Room
Exhaust Fan				Main Bldg Shop/Storage Rm
Exhaust Fan				Main Bldg Shop/Storage Rm
Air Handling Unit	Trane	V4K340AA	W10M26362	Main Bldg Shop/Storage Rm
Boiler (pulse combustion)	Fulton	PHW-750	113007	Main Bldg CIP Room
Radiant Heaters (8)				Main Bldg Process Area
Exhaust Fan				Main Bldg Process Area
Radiant Heaters (13)				Main Bldg Membrane Rm
Exhaust Fans (3)				Main Bldg Pump Room & Restrooms
Air Handling Unit	HAAKON	AIRPAK	11-5786-466-C	Main Bldg. Mech. Room
Air Handling Unit	HAAKON	AIRPAK	11-5786-463-C	Main Bldg. Mech Room
Air Handling Unit	HAAKON	AIRPAK	11-5786-465-C	Main Bldg. Mech. Room

## SCHEDULE OF EQUIPMENT

### SERWTP

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
<b><u>Filter Building</u></b>				
Blower (w/ htg coil)	Cook	150 TDB	182S845645-00/ 00000701	Janitor Closet (In Ceiling)
Fan Coil Unit	Temtrol	FC-DH245	U102161-002-00	Behind Control Ctr (Ceiling)
Condensing Unit	York	H1RA060S46G	W0G5543936	Outside North Wall
Fan Coil Unit	Temtrol	FC-DH245	U102161-001-00	Kitchen (In Ceiling)
Condensing Unit	York	H1RA060S46G	W0F5364182	Outside West Wall
Unit Heater (H/W)	Trane	UHSA186S8EAA1T00000C0	F05G37438	Filter Area (West Wall)
Unit Heater (H/W)	Trane	UHSA186S8EAA1T00000C0	F05G37438	Filter Area (East Wall)
Wall Louver				Filter Area (East Wall)
Air Supply Fan				Filter Area (East Wall)
Unit Heater (H/W)	Trane	UHSA126S8EAA1T00000C0	F05G37436	Pipe Gallery (East End)
Unit Heater (H/W)	Trane	UHSA126S8EAA1T00000C0	F05G37431	Pipe Gallery (Center)
Compressors (2)	Ingersoll-Rand	T30		Mechanical Room
Boiler (Hot Water)	AERCO Int'l	AR865068	G-05-0736	Mechanical Room
Unit Heater (H/W)	Trane	UHSA126S8EAA1T00000C0	F05G37434	Chemical Feed Rm (South)
Unit Heater (H/W)	Trane	UHSA126S8EAA1T00000C0	F05G37435	Chemical Feed Rm (North)
Unit Heater (H/W)	Trane	UHSA320S8EAA1T00000C0	F05G37432	Chlorine Storage Rm.
Exhaust Fan				Chlorine Storage Room
Unit Heater (H/W)	Trane	UHSA126S8EAA1T00000C0	F05G37433	Chlorine Feed Room
Unit Heater (Elect)	Dayton			Fluoride Room

## SCHEDULE OF EQUIPMENT

### SERWTP

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
<b><u>Filter Building</u></b>				
Exhaust Fan				Fluoride Room
<b><u>Reclaim Building</u></b>				
Unit Heater (Elect)	Emerson Chromalox	MUH-03-4	08-83-605	Reclaim Pump Structure
Unit Heater (Elect)	Dayton	2YU67		Reclaim Storage
<b><u>Inlet Structure</u></b>				
Unit Heater (H/W)	Modine			Inlet Structure (South)
Unit Heater (Elect)	Emerson Chromalox			Inlet Structure (North)
Unit Heater (Elect)	Dayton			Carbon Feed Room
Exhaust Fan (2)				Inlet Structure (No. & So.)
<b><u>Actiflo Building</u></b>				
Wall Exhaust Fan	Cook			Bathroom (North Wall)
Exhaust Fan				Electrical Rm (So. Wall)
Boiler	Fulton	PHW-300S	3326	Boiler Room (North)
Boiler	Fulton	PHW-300S	3327	Boiler Room (South)
Exhaust Fan				Boiler Room (East Wall)
Air Handling Unit	DAW Tech.	R-1-621 589	99-014	Basement (S-E Comer)

### JVWTP

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
<b><u>Filter Building</u></b>				
Unit Heater (H/W)	Trane	S-CU 425	3A-01396	Old Gen. Storage Rm
Unit Heater (H/W)	Trane	S-CU 1268	2M-00564	Parking – West OH Door
Unit Heater (H/W)	Trane	S-CU 126S	2M-00556	Parking – East OH Door

## SCHEDULE OF EQUIPMENT

### JVWTP

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
<b><i>Filter Building</i></b>				
Unit Heater (H/W)	Trane	S-CU 126S	2M-00554	Parking – East/Center
Unit Heater (H/W)	Trane	S-CU 42S	3A-01404	Air Scour Room
Unit Heater (H/W)	Trane	S-CU 42S	3A-01394	Welding Room
Unit Heater (H/W)	Trane	S-CU 42S	3A-01403	Tool Room
Unit Heater (H/W)	Trane	S-CU 126S	2M-00551	Parking East South End
Air Scour Blower	Dresser	1228	46751	East Blower
Air Scour Blower	Fuller	GATX	A100554	West Blower
Exhaust Fan (Welding)	Dayton	4C659B		Air Scour Room
Boiler	Universal Boiler Works	BF107W4-1C	15704-2	East Boiler
Boiler	Universal Boiler Works	BF107W4-1C	15704-1	West Boiler
Combustion Air Supply Fan		150SON-B	132SB37373-00/0000701	Boiler Room
Boiler (Lab)	ATH	KAJ-4	081644302	Boiler Room – East
Unit Heater (H/W)	Trane	S-CU 383	2M-010181	Inventory Room
Air Handling Unit	Trane	MCCB030UAOCOUB	K07C344418	Boiler Rm North Wall
Compressor	Quincy			Boiler Room/Center
Air Transfer Fan	Centri Master	X8120	05F101104	MCC Area / South
Unit Heater (H/W)	Trane	S-CU 186S	3B-00100	Oil/Storage Room
Unit Heater (H/W)	Trane	S-CU 38S	2M-01084	Chlorine Rm – S/E
Unit Heater (H/W)	Trane	S-CU 38S	2M-01078	Chlorine Rm – S/W
Unit Heater (H/W)	Trane	S-CU 38S	2M-01065	Chlorine Rm – West/Ctr
Unit Heater (H/W)	Trane	S-CU 38S	2M-01074	Chlorine Rm – East/Ctr

## SCHEDULE OF EQUIPMENT

### JVWTP

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
<b><i>Filter Building</i></b>				
Unit Heater (H/W)	Trane	S-CU 38S	2M-01077	Chlorine Rm –N/W End
Unit Heater (H/W)	Trane	S-CU 38S	2M-01073	Chlorine Rm – N/E End
Unit Heater (H/W)	Trane	S-CU 38S	2M-01075	Chlorinator Room
Roof Exhaust Fan (3)	Trane			Chlorine Room Roof
Motorized Damper (3)				Chlorine Room Roof
Cabinet Heater (8)	Trane			Filter Console Area
Cabinet Heater (17)	Trane			Filter areas (North & South)
Radiant Heater (8)				Filter Area O/S Wall / north
Radiant Heater (8)				Filter Area O/S Wall / south
Cabinet Heater (2)	Trane			West Tour Entry
Radiant Heater (2)				North Main Entry
VAV Box	Titus	MFV-3000		Filter 16
VAV Box	Titus	MFV-3000		Filter 15
VAV-1 Box				South Hall (for Server Rm)
VAV-2 Box				Safe Room (3 <sup>rd</sup> Floor)
VAVR-1 thru 7				Lab Areas (2 <sup>nd</sup> Floor)
VAVR-8				2 <sup>nd</sup> flr Hall Office & Closet
VAVR-9				2 <sup>nd</sup> floor Reception Area
VAVR-10 thru 16				3 <sup>rd</sup> Floor Areas
Exhaust Fan	Cook	70CPV CL1	182SG70713-00 0000701	Lower Roof – East Side
Relief Air Fan	Centri Master	PV150	11B1339-1	Lower Roof – South Side
Louvered Ventilator				Lower Roof – South-East
Lab RTU (original)	Trane	TSC		Lower Roof – East Side

## SCHEDULE OF EQUIPMENT

### JVWTP

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
<b><i>Filter Building</i></b>				
Lab RTU (main)	AAon	RN-031-3-0-EBD9-SC9	201609-BNGU56247	Lower Roof – East Side
Exhaust Fan	Cook	100CPF B	182S938945-02/0002401	Lower Roof – West
Ventilation Exhaust Fan	Centri Master	PV365	05F070401	Front of Plant – South
Ventilation Exhaust Fan	Centri Master	PV365	10/29/2014WK1677740	Front of Plant – North
Humidifier	Nortec	NHTC 100	2020265	2 <sup>nd</sup> Flr Mezzanine/North
Unit Heater (H/W) North	Trane	S-CU 90S	3M-00610	2 <sup>nd</sup> Flr Mezz Area-
Unit Heater (H/W)	Trane	S-CU 90S	3M-00605	2 <sup>nd</sup> Flr Mezz-North Door
Unit Heater (H/W)	Trane	S-CU 90S	3M-00604	2 <sup>nd</sup> Flr Mezz - Center
Unit Heater (H/W)	Trane	S-CU 90S	3M-00613	2 <sup>nd</sup> Flr Mezz-South Door
Unit Heater (H/W)	Trane	S-CU 90S	3M-00614	2 <sup>nd</sup> Flr Mezzanine/South
Ceiling Exhaust Fans	Cook			4 <sup>th</sup> Floor Break Room
Fan Coil Unit-1	Trane	FCCB040		Dept. Mgrs. Office
Fan Coil Unit-2	Trane	FCCB060		Exec-Asst. Cubical
Fan Coil Unit-3	Trane	FCCB060		O/S Compliance Offices
Fan Coil Unit-4	Trane	FCCB060		Compliance Offices
Fan Coil Unit-5	Trane	FCCB060		Operations/W-S Offices
Fan Coil Unit-6	Trane	FCCB060		O/S Oper./ W-S Offices
Fan Coil Unit-7	Trane	FCCB060		Library/Work Stations
Fan Coil Unit-8	Trane	FCCB060		O/S Library & Wrk Stns
Fan Coil Unit-9	Trane	FCCB060		Elevator Area / So. Hall

## SCHEDULE OF EQUIPMENT

### JVWTP

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
<b><u>Filter Building</u></b>				
Fan Coil Unit-10	Trane	FCCB060		4 <sup>th</sup> Floor Restrooms
Fan Coil Unit-11	Trane	FCCB060		4 <sup>th</sup> Floor Break Room
Fan Coil Unit-12	Trane	FCCB080		4 <sup>th</sup> Floor Lg Conf. Rm
Fan Coil Unit-13	Trane	FCCB060		4 <sup>th</sup> Floor Sm Conf Rm
Fan Coil Unit-14	Trane	FCCB040		3 <sup>rd</sup> Flr Office at Elevator
Fan Coil Unit-15 Stairwell	Trane	FCCB060	(Heating Only)	2 <sup>nd</sup> Floor N-E
Unit Heater (H/W)	Trane	S-CU 186S	3B-00102	6 <sup>th</sup> Floor – Center
Unit Heater (H/W)	Trane	S-CU 186S	3B-00104	6 <sup>th</sup> Floor – S/E Corner
Unit Heater (H/W)	Trane	S-CU 186S	3B-00105	6 <sup>th</sup> Flr. – S/W Corner
Unit Heater (H/W)	Trane	S-CU 38S	2M-01064	Penthouse
Recirculation Pump (Large pump)	Bell & Gossett		CL5600-01 L10	Penthouse
Recirculation Pump (small pump)	Bell & Gossett		CL5599-01 L10	Penthouse
A/C Wall Unit	Amana			Penthouse
Louver (Ceiling)				Penthouse
Chiller	Carrier	30GTN050-E-620DT	4201F17602	Roof - Center
Roof Exhaust Fan	Cook	210 CPV CL1	182S938945-02 0000701	Roof – West-Center

### **Chlorine Dioxide Building**

RTU	Reznor	RDCB-060-H200	3BKC100CL06N974E	Chlorine Dioxide Bldg.
Roof Exhaust Fan (with Discharge Damper)	Centri Master	PV165	11B1339-7	Chlorine Dioxide Bldg.
Roof Exhaust Fan (with Discharge Damper)	Centi Master	PRN100	11B1339-4	Chlorine Dioxide Bldg.



## SCHEDULE OF EQUIPMENT

### JVWTP

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
<b><u>Fluoride Building</u></b>				
RTU (Packaged Duct Furnace)	Reznor	CRGB225-S-2-H	EBCH66X2 No7555	Fluoride Building
Roof Exhaust Fan	Centri Master	PNU135RFF2	03A684605	Fluoride Building
Wall Exhaust Fan	Breidert	TXB10-RHUL	27190	O/S East Wall
Louver				Elect. Rm. East Wall
RTU (Packaged Duct Furnace)	Reznor	CRGB225-S-2-H	EBCH66X2 No7555	Fluoride Building
Roof Exhaust Fan	Centri Master	PNU135RFF2	03A684605	Fluoride Building
Wall Exhaust Fan	Breidert	TXB10-RHUL	27190	O/S East Wall
Louver				Elect. Rm. East Wall

### **PACL Storage Building**

Unit Heater (Electric)	Qmark	MUH104		PACL Bldg. East Side
Unit Heater (Electric)		HUH-1048M		PACL Bldg. West Side
Louvers (Auto)				PACL Bldg. East Side
Wall Exhaust Fan (2)	Loren Cook	120W10D	1075/0000	O/S West Wall
Louver				WWRS#1- East Wall

### **WWRS#1**

Unit Heater (Elect)	ILG			Wash Water Reclaim Structure
Wall Exhaust Fan				WWRS#1 – North Wall

### **WWRS#2**

RTU	Carrier	(23,200 BTU Htg / 54,300 Cooling)		WWRS#2
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### **Screening Building**

Unit Heater (Elect)	ILG			Screening Building- S/E Corner
Wall Louvers (Manual) (4)				O/S Walls – East & West
Thru Roof Vents (4)				Screening Building Roof

## SCHEDULE OF EQUIPMENT

### JVWTP

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
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### LPPS

Unit Heater	ILG			Lower Pond Pumping Structure
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### Culinary Pump Station

Unit Heater (Elect)	Berko	HUHAA548		Culinary Pump Station
Fan Coil Unit	Trane	T05A04129	BCHC090GIAOBIN05F000000B020000000000011	Culinary Pump Station

### Reservoir Outlet Structure

Unit Heater (Elect)	Dayton	2YU59		Reservoir Outlet Structure
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### Terminal Reservoir

Ventilation Fan	Soler & Palau	(3275 CFM)		Storage Structure
Unit Heater (Propane)	Reznor (2)	UEAS130		Storage Structure

### JNPS

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
Radiant Heat System				Pump Room (East)
Radiant Heat System				Pump Room (West)
Evaporative Cooler	Premier Industries		2007006	North Roof (East Unit)
Evaporative Cooler	Premier Industries		2007006	North Roof (West Unit)
RTU (htg/cooling)	Trane			East Roof (above office)
Radiant Heat System				Screening Rm. (North wall)
Exhaust Fan				Screening Rm (East wall)
Louver (5)				Pump Room (South wall)
Louver (1)				Pump Room (West wall)
Ceiling Exhaust Fan				Bathroom

**JNPS**

<u>Equipment Type</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #</u>	<u>Location</u>
Roof Exhaust Fan	Pennbarry	DX36B	B07ABB1880 589	Pump Rm Roof (East)
Roof Exhaust Fan	Pennbarry	DX36B	B07ABB1877 589	Pump Rm Roof (East-Mid)
Roof Exhaust Fan	Pennbarry	DX36B	B07ABB1878 589	Pump Rm Roof (West-Mid)
Roof Exhaust Fan	Pennbarry	DX36B	B07ABB1879 589	Pump Rm Roof (West)
Roof Exhaust Fan	Air Movement & Control Assoc., Inc.			Pump Rm Roof (North)

801.565.4300  
fax 801.565.4399  
jvwcd.org  
8215 South 1300 West  
West Jordan, UT 84088



**NOTICE OF AWARD**

To: **Contractor's Name and Address**

Re: **(Project Name)**

You are hereby notified that the OWNER has accepted your bid for the above referenced project in the amount of \$\_\_\_\_\_.

Furnish the required Contractor's Performance Bond, Payment Bond and Certificates of Insurance within ten calendar days from the date of this notice to you. An acknowledged copy of this Notice of Award, together with all future correspondence regarding this project, shall be sent to the District's Project Manager: **(Name) and (Title)**.

When the Agreement is provided, sign and return it within ten calendar days from receipt of the agreement.

Dated this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Shazelle Terry  
Assistant General Manager

**ACCEPTANCE OF NOTICE**

Receipt of the above Notice of Award is hereby acknowledged by:

\_\_\_\_\_  
**(Contractor's Name goes here - underlined)**

This \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_