

STATE OF OHIO  
DEPARTMENT OF ADMINISTRATIVE SERVICES  
GENERAL SERVICES DIVISION  
OFFICE OF STATE PURCHASING  
4200 SURFACE ROAD, COLUMBUS, OH 43228-1395

**REQUIREMENTS CONTRACT: TOTAL MAINTENANCE FOR HVAC, REFRIGERATION EQUIPMENT AND ASSOCIATED CONTROL SYSTEMS**

CONTRACT No.: OT905506

EFFECTIVE DATES: 11/01/05 to 10/31/08  
Renewal 11/01/09 thru 10/31/10

The Department of Administrative Services has accepted bids submitted in response to Invitation to Bid No. OT905506 that opened on 10/07/05. The evaluation of the bid response(s) has been completed. The bidder(s) listed herein have been determined to be the lowest responsive and responsible bidder(s) and have been awarded a contract for the items(s) listed. The respective bid response, including the [Terms and Conditions for Bidding, Standard Contract Terms and Conditions, and Supplemental Contract Terms and Conditions](#), special contract terms & conditions, any bid addenda, specifications, pricing schedules and any attachments incorporated by reference and accepted by DAS become a part of this Requirements Contract.

This Requirements Contract is effective beginning and ending on the dates noted above unless, prior to the expiration date, the Contract is renewed, terminated or cancelled in accordance with the Contract Terms and Conditions.

This Requirements Contract is available to GALLIPOLIS DEVELOPMENTAL CENTER, as applicable.

Agencies are eligible to make purchases of the listed supplies and/or services in any amount and at any time as determined by the agency. The State makes no representation or guarantee that agencies will purchase the volume of supplies and/or services as advertised in the Invitation to Bid.

**SPECIAL NOTE:** State agencies may make purchases under this Requirements Contract up to \$2500.00 using the state of Ohio payment card. Any purchase that exceeds \$2500.00 will be made using the official state of Ohio purchase order (ADM-0523). Any non-state agency, institution of higher education or Cooperative Purchasing member will use forms applicable to their respective agency.

Questions regarding this and/or the Requirements Contract may be directed to:

Harry Graham  
harry.graham@das.state.oh.us

This Requirements Contract and any Amendments thereto are available from the DAS website at the following address:



<http://www.ohio.gov/procure>

Signed: \_\_\_\_\_  
Hugh Quill, Director Date

**TABLE OF CONTENTS**

<b><u>CLAUSES</u></b>	<b><u>PAGE NO.</u></b>
Appendix A	12-14
Contract Award	3
Evaluation	3
Usage Reports	3
Specifications	4-10
Contractor Index	11

**CONTRACT ITEMS**

Price Schedule	11
----------------	----

SPECIAL CONTRACT TERMS AND CONDITIONS

**AMENDMENTS TO CONTRACT TERMS AND CONDITIONS:** The following Amendments to the Contract Terms and Conditions do hereby become a part hereof. In the event that an amendment conflicts with the Contract Terms and Conditions, the Amendment will prevail.

**DELIVERY AND ACCEPTANCE:** Services will be performed as set forth in the Contract and in accordance with paragraphs S-8, S-9, and S-10 of the SUPPLEMENTAL CONTRACT TERMS AND CONDITIONS. The location of performance will be noted on the purchase order issued by the participating agency. Payment for services rendered will occur upon the inspection and written confirmation by the ordering agency that the services provided conform to the requirements set forth in the Contract. Unless otherwise provided in the Contract, payment shall be conclusive except as regards to latent defects, fraud, or such gross mistakes as amount to fraud.

**USAGE REPORTS:** Every twelve (12) months the contractor must submit a report (written or on disk) indicating sales generated by this contract. The report shall list usage by customer, by line item, showing the quantities/dollars generated by this contract. The report shall be forwarded to the Office of State Purchasing, 4200 Surface Road, Columbus, OH 43228-1395, Attn: Harry Graham.

**EVALUATION:** Bids will be evaluated in accordance with Article I-17 (Evaluation of Bids) of the "Instructions, Terms and Conditions for Bidding".

**CONTRACT AWARD:** The contract will be awarded to the lowest responsive and responsible bidder by low lot total. Low lot total will be determined by multiplying the monthly cost for each yearly period times the number of months in that yearly period and then adding the yearly totals. Failure to bid all items may result in the bidder being deemed not responsive.

**MATERIAL SAFETY DATA SHEET:** The contractor shall provide a Material Safety Data Sheet (MSDS) for any hazardous chemical that he brings onto the facility property for the performance of this contract. The MSDS shall verify the contractor's compliance with OSHA's Hazard Communications Standard 29 CFR 1910.1200. The MSDS shall be given to the facility contact person prior to use of the hazardous chemical on the facility property.

**FIXED-PRICE WITH IN-SERVICE COST ADJUSTMENTS:** The Contractor agrees to adjust the total monthly charges for any decrease/increase in the number of HVAC, refrigeration and/or control units to be serviced due to resident program changes and/or building destruction/construction/renovation programs for the duration of the Contract. All adjustments will be in accordance with the Contract.

**BUSINESS REFERENCES:** All bidders shall submit with their bid, a list of at least three (3) companies and/or organizations with which they have had recent (within two [2] years) HVAC Total Maintenance service contracts. This list shall include the name and phone number of a contact person who will be familiar with the bidder's job performance. The state may elect to verify the bidder's experience based upon the list of business references submitted and any other sources which the state deems appropriate.

**MANDATORY BID CONFERENCE:** A mandatory bid conference will be held on (09/28/05) at Gallipolis Developmental Center (Administration Building Conference Room) to discuss the requirements of the bid. The conference will commence promptly at 10:30 A.M., barring an unforeseen circumstance that results in a delay of the conference. Attendance will be taken. The state will not be responsible to a bidder for their failure to obtain information discussed during the bid conference due to their arriving after the conference has convened. Bidders who fail to attend the mandatory bid conference will be deemed not responsive.

**EQUIPMENT REPAIRS KNOWN TO BE NEEDED:** At contract inception, GDC will send to the contractor a listing of known repairs needed to existing equipment. Contractor shall provide a repair estimate, and upon GDC approval, make the requested repairs. Payment for these particular repairs shall not be part of this contract. Once these repairs are complete, any additional repairs/replacements will be the contractor's responsibility under this contract.

## SPECIFICATIONS

### I. SCOPE:

- A. This bid and any resultant contract are issued to obtain Total Maintenance for Heating, Ventilation, Air Conditioning (HVAC) and Refrigeration equipment and associated control systems at the Gallipolis Developmental Center (GDC), Gallipolis, Ohio. The Total Maintenance Program shall include preventive maintenance, priority emergency service and repair according to the terms and conditions herein. All repair and replacement parts, components, devices, miscellaneous parts and supplies necessary to maintain the environmental systems and equipment (HVAC, Refrigeration and associated control systems) listed herein shall be supplied by the contractor and shall be included in the cost of the service program. The response time for emergency service and repair shall be within 4 hours after notification by GDC to the contractor. The contract term is thirty-six (36) months.
- B. Equipment listing for this bid/contract is shown in Appendix A on pages 12-14. The state of Ohio believes this listing to be correct, but it is the bidder's responsibility to verify the equipment as shown in Appendix A.
- C. The contractor's service representative shall report to the GDC contact person upon arrival at GDC and at the conclusion of each service call. The contractor must obtain the signature of the GDC contact person on all maintenance reports and shall provide a copy of that report to GDC.
- D. After each service call (both scheduled and emergency response) is signed off, details will be re-entered into the contractor's data bank to assure closed loop performance control and continuous program updating.
- E. GDC will provide reasonable means of access to the equipment covered by this contract.
- F. GDC will provide the contractor with the required filters for the various air handling systems. The contractor will be responsible for changing the filters (once per quarter [4 times per year or sooner if needed]).

### II. CLASSIFICATION:

- A. Phase 1: Buildings 6038, 6039, 6040, 6041, 7015
  - 1. Temperature control systems
  - 2. One Trane chiller, condenser and associated controls
  - 3. All chilled/hot water pumps
  - 4. Twelve air handling units and associated controls
- B. Phase 2: Buildings 6045, 6046, 6047, 6048, 7016
  - 1. Temperature control systems
  - 2. Twelve Carrier "split-system" HVAC units and associated controls
  - 3. All hot water pumps
- C. "32 Beds": Buildings 6042, 6043, 6044
  - 1. Temperature control systems
  - 2. Two Trane chillers
  - 3. Three air handling units and return air fans
  - 4. All hot/chilled water pumps
  - 5. Three hot water converters
  - 6. Three humidifiers
- D. New "32 bed": Building 6050
  - 1. Temperature control system
  - 2. One Trane chiller
  - 3. One air handling unit and return air fan
  - 4. One hot water converter
  - 6. All hot/chilled water pumps
  - 7. One humidifier

SPECIFICATIONS (Cont.'d)

- E. Activities and Therapy Building
  - 1. Temperature control systems
  - 2. One Trane absorption water chiller
  - 3. One BAC cooling tower, including water treatment control panel
  - 4. Seven air handling units
  - 5. All chilled/hot/condenser water pumps
  - 6. Three hot water converters
  
- F. Dining Pavilion and Administration
  - 1. Temperature control systems
  - 2. One Carrier computer room HVAC unit
  - 3. One Mammoth "multi-zone" air handler
  - 4. One mammoth "split-system" HVAC unit
  - 5. Two Mammoth air handling units
  - 6. All hot water pumps
  - 7. Two hot water converters
  - 8. Controls for "steam ginny"
  - 9. Eight "split-system" refrigeration units (walk-in coolers/freezers)
  
- G. Building 6049
  - 1. Temperature control systems
  - 2. One Carrier chiller
  - 3. One Trane "split-system" chiller
  - 4. Seven air handling units
  - 5. All chilled/hot water pumps
  - 6. All fan coil units
  
- H. Vocational Workshop
  - 1. Temperature control systems
  - 2. Two Trane "split-system" HVAC units
  - 3. Two Trane electric unit heaters
  
- I. Support Services Building
  - 1. Temperature control systems
  - 2. Three York "split-system" HVAC units
  - 3. One York single-zone HVAC unit

**The remainder of this page is intentionally left blank.**

SPECIFICATIONS (Cont.'d)

III. REQUIREMENTS:

The following is an outline of preventive maintenance services and procedures to be performed on the equipment covered by this bid and any resultant contract. This is not to limit the program designed by the contractor, nor does the performance of these procedures limit the contractor's responsibility for emergency response and equipment repair.

A. Temperature Control Systems:

1. Maintenance shall include all parts, materials and labor necessary for proper operation. Preventive Maintenance shall include, but not be limited to, thermostats, pressure controls, relays, limits, valve operators, valves, damper motors, humidity controls, step switches, time clocks, contactors, controllers, capacity controls, safety controls, recorders, control panels, gauges, air compressors, freeze stats and circuit boards.
2. Services shall include:
  - a. Examination of each piece of equipment or device to see that it is functioning properly and is in good operating condition.
  - b. Cleaning of all components to remove dust, old lubricants, etc., to allow the equipment to function as designed.
  - c. Lubrication of all equipment to permit bearings, gears and all contact wear points to operate freely without undue wear.
  - d. Adjustment of all linkages, motors, drives, etc., to achieve design settings and positions.
  - e. Calibration of all sensing, monitoring, output, safety and readout devices for proper ranges, settings and optimum efficiencies.
  - f. Repairing devices by the installation of replacement parts when needed or recommended by the manufacturer.
  - g. Replacement of devices as needed, in view of condition, age and cost of previous and anticipated repairs.
  - h. Testing and cycling of all equipment as a system, after it has been cleaned, lubricated, adjusted and calibrated, to determine operational condition and set for optimum efficiency.

B. Absorption Water Chiller:

Maintenance shall include all parts, materials and labor necessary for proper operation. Preventive maintenance shall include, but not be limited to the following:

1. Major Inspection (performed during the Winter season):
  - a. Remove condenser and absorber water box covers. Inspect condenser and absorber tube sections. Replace the heads, using new gaskets.
  - b. Check operating and safety controls. Calibrate and adjust as necessary.
  - c. Leak-check the outboard solution pump seals.
  - d. Remove a solution sample for laboratory analysis. Provide Owner's representative with written solution analysis report.
  - e. Install chemical additives and inhibitors as recommended by the solution analysis report.
  - f. During the first year of the contract, perform Eddy Current Tube Analysis on each tube section of the Absorption unit to determine condition and possible problem areas. Provide copy of this analysis report to Owner's representative, noting plans and schedule for recommended corrective action.
2. Operational Inspections shall be performed monthly during operation, and shall include:
  - a. Logging of the equipment and checking concentration of solutions.
  - b. Checking and recording of solution pump pressures.
  - c. Checking and calibration of operating and safety controls.
  - d. Review of system with Owner's operating personnel.

SPECIFICATIONS (Cont.'d)

C. Air-Cooled Water Chiller:

Maintenance shall include all parts, materials and labor necessary for proper operation. Preventive maintenance shall include, but not be limited to, the following:

1. Major Inspection (performed during the Winter season):
  - a. Leak-check unit refrigerant system.
  - b. Check and calibrate safety and operational controls.
  - c. Replace liquid line filter/dryer core.
  - d. Check and tighten all electrical terminals. Check contacts for wear.
  - e. Check and maintain compressor oil level per manufacturer's recommendations. Change oil at manufacturer's recommended intervals.
  - f. Inspect and clean condenser section.
2. Monthly Inspections performed during operation:
  - a. Adjust operating and safety controls.
  - b. Check operating control circuit.
  - c. Check compressor oil level. Add oil as needed.
  - d. Check operation of motor and starter.
  - e. Check air flow of condenser and evaporator.
  - f. Check operating log with Owner's operator. Review general operation and condition of unit.

D. Air-Cooled Condensing Unit (Comfort Cooling/Refrigeration):

Maintenance shall include all parts, materials and labor for proper operation. Preventive maintenance shall include, but is not limited to, the following:

1. Major Inspection performed during the Winter season:
  - a. Check unit for refrigerant leaks.
  - b. Check and calibrate controls and overloads.
  - c. Meg test compressor motor and record readings.
  - d. Check main starter, tighten all starter terminals and check contacts for wear.
  - e. Tighten motor terminals and control panel terminals.
  - f. Check crankcase heater.
  - g. Check external interlocks.
  - h. Check oil sample for acid (where applicable).
  - i. Lubricate fan bearings.
  - j. Inspect and adjust belt alignment and tension.
  - k. Check damper operation. Lubricate and adjust as needed.
  - l. Inspect and clean condenser coils.
2. Monthly inspections during operation:
  - a. Check temperatures, pressures, voltages and amperages.
  - b. Check and adjust operating and safety controls.
  - c. Check operation of the crankcase heater.
  - d. Check oil level and add as required.
  - e. Check operation of the control circuit.
  - f. Check operation of motor and starter.
  - g. Check heating controls (in season).
  - h. Check and adjust fan belt tension.

SPECIFICATIONS (Cont.'d)

E. Air Handling Unit:

Maintenance shall include all parts, materials and labor necessary for proper operation. Preventive Maintenance shall include, but not be limited to, the following:

1. Major Inspection performed annually:
  - a. Inspect and clean coil.
  - b. Inspect drain pan and drain line.
  - c. Inspect fan wheels.
  - d. Inspect drive sheaves.
  - e. Check belt alignment and tension.
  - f. Check bearings and motor mountings. Provide necessary lubrication.
  - g. Check motor operating voltage and amperage.
  - h. Check inlet valves (where applicable) and damper operation.
2. Monthly Inspections performed during operation:
  - a. Check belt tightness and alignment.
  - b. Provide lubrication as needed.
  - c. Check bearing and motor mountings.
  - d. Check for excessive vibration or noise.

F. Cooling Tower:

Maintenance shall include all parts, materials and labor necessary for proper operation. Preventive maintenance shall include, but not be limited to, the following:

1. Major inspection performed in conjunction with seasonal start-up:
  - a. Clean float valve assembly and adjust for proper operation.
  - b. Check and clean bleed off line and overflow.
  - c. Check sump heaters and thermostats for proper calibration.
  - d. Check and adjust fan belts for proper operation.
  - e. Lubricate fan and motor bearings.
  - f. Check motor amperages.
  - g. Inspect electrical connections, contactors, relays and safety controls.
  - h. Check condenser water temperature regulator system.
  - i. Check water treatment control panel for proper operation.
2. Monthly inspections during operation:
  - a. Inspect fan, motor and belts.
  - b. Check oil in gear reducer. Add oil as required.
  - c. Check intake strainer, bleed and overflow.
  - d. Check operating conditions. Adjust as required.

**The remainder of this page is intentionally left blank.**

SPECIFICATIONS (Cont.'d)

G. Pump:

Maintenance shall include all parts, materials and labor necessary for proper operation. Preventive maintenance shall include, but not be limited to:

1. Major inspection in conjunction with seasonal start-up:
  - a. Clean pump strainers. Check hand valves.
  - b. Lubricate motors and bearings per factory recommendations.
  - c. Tighten nuts and bolts. Check motor mounts and vibration pans.
  - d. Visually check pump alignment and coupling.
  - e. Check motor operating conditions. Record readings.
  - f. Inspect electrical connections and contactors.
  - g. Inspect pump packing or mechanical seal.
  - h. Check closed systems for proper antifreeze protection; add as required.
2. Monthly inspections performed during operation:
  - a. Provide proper lubrication of motor and pump bearings.
  - b. Check suction and discharge pressures.
  - c. Check packing or mechanical seal. Adjust as necessary.
  - d. Check motor voltage and amperage.

H. Additional Service:

During the Winter operation of the HVAC systems and related electrical systems, each component shall receive one annual inspection by infrared scanning at the equipment. Contractor shall forward to the Owner's representative, a copy of the inspection report, noting plans and schedule for corrective action.

I. Parts Replacement:

1. All parts, components, or devices for the environmental system as listed above that are worn or are not in proper operational condition shall be repaired and/or replaced with new parts, components or devices.
2. When equipment or parts are replaced in their entirety and a newer design of this device is available and is functionally equivalent and compatible, the device of the newer design shall be used as the replacement.
3. All repair and replacement parts, components and devices for the environmental systems and equipment listed above shall be supplied by the contractor and shall be included in the cost of the service program.
4. All miscellaneous parts and supplies necessary to maintain the environmental systems and equipment as listed above shall be supplied by the contractor and shall be included in the cost of the service program.
5. The contractor shall not be made responsible for repairs or replacements necessitated by reason or negligence or misuse of the equipment by other than the contractor, or by reason of any other cause beyond the control of the contractor, except ordinary wear and tear.
6. The contractor shall be available, at no additional charge, for consultation regarding design changes and equipment selection, based on past experience with similar equipment or systems.

J. Emergency Service:

1. All planned preventive maintenance service work under these specifications shall be performed during the regular working day. The Owner's normal working hours for the purposes of this specification are 8:00 A.M. to 4:00 P.M., Monday through Friday.
2. Emergency service including overtime service shall be included and shall be at no additional cost to the owner. The contractor shall provide emergency service on a 24-hour, 7-day-a-week basis, all year. Response time shall be a maximum of four hours, or the owner reserves the right to bill the contractor \$50.00 per hour for hours in excess of four (4).
3. The bidder may be required to show proof of existing night and weekend emergency paging system.

SPECIFICATIONS (Cont.'d)

K. Prime Contractor's Responsibilities:

1. The contractor will assume sole responsibility for providing the products and services stipulated in this bid and any resulting contract, regardless of the fact that these requirements may be produced or manufactured by others.
2. No agreement, oral or written, expressed or implied, shall limit or qualify the terms of this agreement, unless such additional agreement is accepted in writing by both parties.
3. Should any major components of the environmental system be replaced by the Owner, the contractor shall issue a credit to the owner pro-rated over the period of time in the contract period during which service and repair of the new equipment is covered by the manufacturer's or installer's warranty.

**The remainder of this page is intentionally left blank.**

PRICE SCHEDULE:

TOTAL MAINTENANCE FOR HVAC, REFRIGERATION EQUIPMENT AND ASSOCIATED CONTROL SYSTEMS AT GALLIPOLIS DEVELOPMENTAL CENTER			
ITEM I.D.: 3882			
DESCRIPTION OF SERVICES	FIRST YEAR	SECOND YEAR	THIRD YEAR
	11/01/05 thru 10/31/06	11/01/06 thru 10/31/07	11/01/07 thru 10/31/08
Cost per month for Total Preventive Maintenance as specified herein	\$5,243.00 per mo.	\$5,400.00 per mo.	\$5,560.00 per mo.
Total Annual Cost for each yearly period	\$62,916.00 per Year	\$64,800.00 per Year	\$66,720.00 per Year
Labor cost for an additional air handling filter change (above the four changes built into the contract price: see paragraph I.F.)	\$1,150.00	\$1,150.00	\$1,150.00

► CONTRACTOR INDEX

CONTRACTOR AND TERMS:

95876  
 Johnson Controls, Inc.  
 4132 First Avenue  
 P.O. Box 776  
 Nitro, WV 25143

BID CONTRACT NO.: OT905506-1 (10/31/08)

DELIVERY: per ITB schedule

TERMS: Net 30 Days

CONTRACTOR'S CONTACT: Jason W. Shelton,

Toll Free: (866) 300-7647 (Service)  
 Telephone: (304) 755-4353 ext. 2715  
 FAX: (304) 755-0765  
 E-Mail: jason.w.shelton@jci.com

CONTRACTOR'S MIS CONTACT: Harry Main,

Telephone: (304) 755-3703

REMIT TO ADDRESS:

Johnson Controls, Inc.  
 P.O. Box 905240  
 Charlotte, NC 28290-5240

► Updates per Amendment No. 2 dated 11/01/08.

APPENDIX A

LOCATION	ITEM	MFG.	MODEL	INSTALL DATE
7015	Chiller-evaporator	Trane	RTU080AY	2003
	Chiller-condenser	Trane	RTU080GO	2003
	CW Pump (2)	Bell & Gossett	1510	2003
	HHW Pump (2)	Bell & Gossett	382A-BF	1977
	Refrigeration Monitor	Chillguard	A-RT-C-8-1-1-0-F	2003
6038	Air Handler	Trane	BCVC054E2A	2003
	Air handler (2)	Trane	BCVC090E2A	2003
6039	Air Handler	Trane	BCVC054E2A	2003
	Air Handler (2)	Trane	BCVC090E2A	2003
6040	Air Handler	Trane	BCVC054E2A	2003
	Air Handler (2)	Trane	BCVC090E2A	2003
6041	Air Handler	Trane	BCVC054E2A	2003
	Air Handler (2)	Trane	BCVC090E2A	2003
6042	Chiller	Trane	CGAFC40EAG	2003
	Air Handler	Trane	MCCB021UA	2003
	Return Air Fan	Greenheck	SUB-222-50	2003
	CW Pump	Bell & Gossett	1510-BF-7.250-1.5	2003
	HHW Pump (2)	Dunham-Bush	A9D55-1A	1977
	Steam Humidifier	Armstrong	CSE-13	1996
	Air Compressor	Honeywell	WP231C2DD1C	1977
	Air Dryer	Hankinson	8010	1977
	Steam/HHW Converter	Patterson-Kelley	39860	1977
	Variable Air Volume Box (8)	NA	NA	2003
6043	Air Handler	Trane	MCCB021UA	2003
	Return Air Fan	Greenheck	SUB-222-50	2003
	HHW Pump (2)	Dunham-Bush	A9D55-1A	1977
	Steam Humidifier	Armstrong	CSE-13	1996
	Air Compressor	Honeywell	WP231C2D1CCOE	1977
	Air Dryer	Speedaire	5UZ85	2003
	Steam/HHW Converter	Patterson-Kelley	39860	1977
	Variable Air Volume Box (8)	NA	NA	2003
	6044	Air Handler	Trane	MCCB021UA
Return Air Fan		Greenheck	SUB-222-50	2003
CW Pump		Bell & Gossett	1510-BF-9.125-2BC	2003
HHW Pump (2)		Dunham-Bush	A9D55-1A	1977
Steam Humidifier		Armstrong	CSE-13	1996
Air Compressor		Honeywell	WP231C2D1C	1977
Air Dryer		Hankinson	8010	1977
Steam/HHW Converter		Patterson-Kelley	39860	1977
Variable Air Volume Box (8)		NA	NA	2003
6043/44	Chiller	Trane	TRAA070AYN	2003
7016	HHW Pump (2)	Bell & Gossett	2XT5374BF	1981
6045	Air Handler	Carrier	39BA060	1981
	Air Handler (2)	Carrier	39BA050	1981
	Air Cond. Unit	Carrier	38AE012500	1981
	Air Cond. Unit (2)	Carrier	38BA008420	1981

APPENDIX A

LOCATION	ITEM	MFG.	MODEL	INSTALL DATE
6046	Air Handler	Carrier	39BA060	1981
	Air Handler (2)	Carrier	39BA050	1981
	Air Cond. Unit	Carrier	38AE012500	1981
	Air Cond. Unit (2)	Carrier	38BA008420	1981
6047	Air Handler	Carrier	39BA060	1981
	Air Handler (2)	Carrier	39BA050	1981
	Air Cond. Unit	Carrier	39AE012500	1981
	Air Cond. Unit (2)	Carrier	38BA008420	1981
6048	Air Handler	Carrier	39BA060	1981
	Air Handler (2)	Carrier	39BA050	1981
	Air Cond. Unit	Carrier	38AE012500	1981
	Air Cond. Unit (2)	Carrier	38BA008420	1981
6050	Air Handler	Trane	MCCA025GAJ	1995
	Return Air Fan	Trane	CB1D30	1995
	Air Cond. Unit	Trane	CGAEC50GAB	1995
	CW Pump (2)	Weinan	2K2A-50PN	1995
	HHW Pump (2)	Weinan	2007CV10254	1995
	Steam Humidifier	STS	STS-50C	1995
	Steam/HHW Converter	Bell & Gossett	SU-65-2	1995
5002 (Activity Center)	Absorption Chiller	Trane	ABSC174	2003
	Air Cooling Tower	Baltimore	15176	1995
	Air Handler #16	Trane	TSCA008GCD	2003
	Air Handler #17	Trane	C-2090-003	2003
	Air Handler #18	Trane	TSCA014GCD	2003
	Air Handler #19	Trane	MCCB021UAOD	2003
	Air Handler #20	Trane	MCCB017NOA	2003
	Air Handler #21	Trane	MCCB006UAO	2003
	Air Handler HVAC-7	York	CP45	2001
	CW Pump (2)	Bell & Gossett	1510-BF-9.125	2003
	HHW Pump (2)	Bell & Gossett	1510-4AB-6-1/2 BFW	1977
	Air Compressor	Honeywell	231D1D1BOE	1977
	Air Dryer	Speedaire	4XX26	2001
	Steam/HHW Converter (2)	ITT	SU-127-2	1997
	Steam/HHW Converter (Pool)	ITT	SU-66-2	1977
Variable Air Volume Box (24)	NA	NA	1978	
3007 (Habilitation Center)	Air Handler	Trane	MCCA021	1992
	Air Handler	Trane	MCCA006	1992
	Air Cond. Unit – 10T	Trane	TTA120C	1992
	Air Cond. Unit – 30T	Trane	RAUC C30	1992
	Electric Unit Heaters (2)	Trane	3 RD34E003W	1992

APPENDIX A

LOCATION	ITEM	MFG.	MODEL	INSTALL DATE
7017 (Support Svcs.)	Gas Furnace	York	P3UG	1991
	Gas Furnace (2)	York	P3US	1991
	Air Cond. Unit	York	H2CB860S25C	1991
	Air Cond. Unit (2)	York	H1CE090A25A	1991
	HVAC Unit	York	DICG	1991
7014 (Adm./Dietary)	HVAC	LSI Mammoth	CEHB-502-W1	1976
	HVAC	LSI Mammoth	EHB111W125	1990
	HVAC	LSI Mammoth	EHB111W125	1976
	HVAC	LSI Mammoth	EHB302W626	1976
	HHW Pump (2)	Bell & Gossett	1531-3AB6	1976
	Steam/HHW Converter (2)	ITT	BN42451	1976
(Data Services)	AC Unit	Carrier	50EE030310	1987
	Air Compressor/Dryer	Curtis	3Z528	1976
	Walk-in Cooler Cond. Unit (2)	Copeland	ERFA-031E-TAD-800	1995
	Walk-in Cooler Cond. Unit (2)	Copeland	2CD3-0500-TAD-100	1995
	Walk-in Cooler Cond. Unit (2)	Copeland	2DC3-0750-TFD-100	1995
	Walk-in Freezer Cond. Unit (2)	Copeland	3DS3A100E-TAD-800	1995
	Walk-in Cooler Evap. Unit (8)	Bohn	ADT1560A	1976
	Walk-in Cooler Evap. Unit (4)	Bohn	L02680A	1976
	Walk-in Freezer Evap. Unit (4)	Bohn	LET801A	1976
6049	Chiller-Evaporator	Trane	CCACC504M	1989
	Chiller-Condenser	Trane	CAUBC5042	1989
	Chiller	Carrier	30GA065600	1975
	Air Handler (5)	Trane	215-1	1958
	Climate Changer	Trane	CCDBC8A	1989
	Climate Changer	Trane	CCDB03ALUH	1989
	CW Fan Coil Unit (37)	Trane	LB12D0012U-LB12A002U	1989
	CW Fan Coil Unit (26)	Carrier	42AC-42HB	1975
	CW Pump	Armstrong	4380-2x2x8	1989
	CW Pump (2)	General Electric	KNE	1975
	CW Pump (2)	Aurora	341-BF-2x9	1975
	Air Compressor	Curtis	8SN8D-20x60-80	1989
	Air Compressor	DeVilbiss	UBL5192	1975
	Air Dryer	Hankenson	8010	1989
	Air Dryer	Johnson	A-421	1975

SUMMARY OF AMENDMENTS

<b>Amendment Number</b>	<b>Revision Date</b>	<b>Description</b>
3	11/01/09	Mutual renewal for 12 months, effective 11/01/09 thru 10/31/10.
2	11/01/08	Renewal 11/01/08 thru 10/31/09 and updates to Contractor Index
1	06/14/06	Contractor name change and resultant updates to Contractor Index