

Planned Maintenance Agreement

This agreement made on this 14th day of January, 2021 by and between
Mechanical Concepts, Inc. herein called the seller and Town of Munster, Public Works Garage
508 Fisher St., Munster, IN 46321

herein called the purchaser. In consideration of the payments to be made to the seller by the purchaser and the performance by the purchaser of the conditions and agreements herein specified, the seller agrees to the services as described in the maintenance program which are attached herein and made a part of the agreement.

The purchaser agrees to pay to the seller in advance, the sum of \$ 5,080.00 Annually beginning with the effective date of this agreement January 1, 2021 thru December 31, 2023 unless either party gives written notice to the other not to renew this agreement forty-five (45) days prior to the anniversary dates. Due to annual labor, material and other cost increases, this agreement is subject to a price revision on any anniversary date.

This agreement is subject to further terms and conditions as specified on the back of this agreement, plus Schedules A and B, which are expressly incorporated herein and made a part thereof.

By: **Mechanical Concepts, Inc.**

Purchasers Acceptance

Name: Ralph Neff

Name: _____

Title: President

Title: _____

Date: _____

Date: _____

Preventive Maintenance and Inspection Program Schedule A

Mechanical Concepts, Inc. (seller) agrees to perform 4 (four) inspections per year.

Mechanical Concepts, Inc. shall provide the following maintenance services for the building mechanical systems consisting of the equipment as listed on the Maintained Equipment List, Schedule B.

Preventative Maintenance Schedule

___ January X February ___ March ___ April X May ___ June
___ July X August ___ September ___ October X November ___ December

Preventative Maintenance Services

	Primary Air Conditioning Equipment	Reciprocating Air Conditioning Equipment	Primary Heating Equipment	Associated Air Conditioning & Heating Equipment
Premium				
Basic		X		X
	Temperature Control System	Training	Special Services	Plumbing System
Premium				
Basic				

Premium Coverage for extended service options

On-site repair service will be provided during MCI normal business hours, unless one of the following is checked:

- ☐ 24-5 Extended Service. MCI will provide 24 hour a day, 5 days a week (Monday thru Friday, except MCI holidays)
- ☐ 24-7 Extended Service. MCI will provide on-site response 24 hours a day, 7 days a week (including holidays)

Additional Special Services or Deletions

- A. Replace pleated air filters on two make-up air units quarterly.
- B. Replace V-belts on Reznor units and Carnes exhaust fans as needed.
- C. Inspection of Reznor unit heaters will be in the fall only.
- D. Inspection of Carnes exhaust fans will be in the spring only.
- E. Replace 4" pleated air filters for the two offices semi-annually
- F. Replace office humidifier pads annually

Preventive Maintenance and Inspection Program Schedule B

LIST OF MAINTAINED EQUIPMENT

Customer Town of Munster
Public Works Garage

Address 508 Fisher Street
City/State/Zip Munster, IN 46321

<u>Qty</u>	<u>Manufacturer</u>	<u>Model #</u>	<u>Serial #- Type</u>	<u>Equipment</u>	<u>HP/ Tons</u>	<u>Location</u>
1	REZNOR	PCBH150HHL		HVAC		GARAGE
1	REZNOR	PCBH150HHL		HVAC		GARAGE
1	REZNOR	SCB400-6-S-2	EBBD66X3N08223	HVAC		GARAGE
1	REZNOR	SCB400-6-S-2	EBBD66X3N08222	HVAC		GARAGE
1	REZNOR	SCB400-6-S-2	EBBD66X3N08221	HVAC		GARAGE
1	REZNOR	SCB400-6-S-2		HVAC		GARAGE
1	REZNOR	SCB400-6-S-2	EBBD66X3N08226	HVAC		GARAGE
1	REZNOR	SCB400-6-S-2		HVAC		GARAGE
1	REZNOR	SCB125-6-S-2	EBBD66X0N8219	HVAC		GARAGE
1	REZNOR	SCB225-6-S-2	EBBD66X2N08220	HVAC		GARAGE
1	CARNES			HVAC		GARAGE
1	CARNES	LWBK42TICSUP04F	386391-010	HVAC		GARAGE
1	CARNES	LWBK42TICSUP04F		HVAC		GARAGE
1	CARNES	LWBK42TICSUP04F		HVAC		GARAGE
1	CARNES	LWBK42TICSUP04F		HVAC		GARAGE
1	CARNES	LWBK24P1A1UP04F	386391-008	HVAC		GARAGE
1	CARNES	LWBK24P1A1UP04F		HVAC		GARAGE
1	CARNES	LWBK24P1A1UP04F	386391-009	HVAC		GARAGE
1	CARRIER	58MTA100-F-1-20	1501A12622	HVAC		GARAGE
1	CARRIER	58MTA100-F-1-20	3201A11760	HVAC		GARAGE
1	HONEYWELL	HUMIDIFIER	ELITE	HVAC		GARAGE
1	HONEYWELL	HUMIDIFIER	ELITE	HVAC		GARAGE

Planned Maintenance Services

Building Automation Systems

Operational

- Preview alarm history.
- Verify communication link integrity.
- Test all battery back up systems.
- Verify and adjust time of day as necessary.
- Test operation of electronic or electric relays.
- Test operation of output devices; (e.g. modem, printers).
- Test operation of indoor air sensors; calibrate as necessary.
- Test operation of outdoor air sensors; calibrate as necessary.
- Test response to priority inputs; adjust as necessary.
- Test power supplies.
- Confirm operating schedule or program in all units.
- Confirm operation of transducers.
- Review trend logs.

Packaged HVAC Unit Air Cooled

Spring

- Lubricate fan and motor per manufacturers' recommendation.
- Inspect drive components; adjust as necessary.
- Test refrigeration system for proper operating charge, pressures and temperatures.
- Inspect refrigeration system for leaks, loose connections or vibration.
- Inspect electrical connections; tighten as necessary.
- Test motor operating current and voltage.
- Test and inspect operating controls, relays, contractors, switches, conductors and safety controls.
- Test crankcase heater operation.
- Inspect coils for cleanliness; clean as necessary and straighten bent coil fins.
- Inspect drain pan and drain line; clean as necessary.
- Inspect indoor blower; clean as necessary.
- Inspect unit panels, dividers, flashing, curbs and insulation.
- Inspect indoor blower; clean as necessary.
- Test operating conditions; adjust for efficient operation.
- Check oil level.
- Test unloader operation.

Summer

- Inspect drive components; adjust as necessary.
- Test refrigeration system for proper operating charge, pressures and temperatures.
- Inspect refrigeration system for leaks, loose connections or vibration.
- Test and inspect operating controls, relays, contractors, switches, conductors and safety controls.
- Test crankcase heater operation.
- Test operating conditions; adjust for efficient operation.
- Check oil level.

- Test unloader operation.

Fall

- Inspect drive components; adjust as necessary.
- Test and inspect operating controls, relays, contractors, switches, conductors and safety controls.
- Test and inspect economizer system; lubricate and adjust dampers and linkages.
- Clean economizer intake filters.
- Inspect heat exchanger for defects and deterioration.
- Clean and inspect burners; adjust as necessary.
- Clean and adjust pilot flame assembly.
- Test ignition and flame proving components.
- Test fan control operation; adjust as necessary.
- Test operation of high temperature safety controls.
- Inspect gas line and shut off valve local to unit.
- Inspect combustion air openings.
- Inspect flue piping for blockage or deterioration.
- Test exhaust system for proper draft.
- Test operating conditions and performance; adjust for efficient and safe operation.
- Test gas manifold pressure.
- Inspect panels, dividers and secure access panels.

Winter

- Inspect drive components; adjust as necessary.
- Test and inspect operating controls, relays, contractors, switches, conductors and safety controls.
- Test and inspect economizer system.
- Test ignition and flame proving components.
- Test operation of high temperature safety controls.
- Inspect flue piping for blockage for deterioration.
- Test exhaust system for proper draft.

Pumps and Circulators

Seasonal start-up

- Lubricate bearing assembly and motor per manufacturers' recommendation.
- Inspect drive components and alignment.
- Examine seals and gaskets.
- Inspect motor mounts and vibration pads.
- Test motor operating current and voltage.
- Inspect motor starter and overloads.
- Inspect electrical connections; tighten as necessary.
- Perform visual inspection of mechanical room valves and piping for corrosion, deterioration and leakage.
- Test and record pump operating head if gauge ports are available.
- Check system expansion or compression tank and pressures.
- Check system make up valve; record static pressure.
- Verify system gauge accuracy.

- Clean external surfaces as necessary.
- Test system glycol concentration; adjust as necessary.

Operational

- Lubricate bearing assembly and motor per manufactures' recommendation.
- Examine seals and gaskets.
- Inspect motor mounts and vibration pads.
- Test motor operating current and voltage.
- Perform visual inspection of mechanical room valves and piping of corrosion, deterioration and leakage.
- Test and record pump operating head if gauge ports are available.
- Check and record balancing valve settings as necessary.
- Test and record strainer basket pressure drip if gauge ports are available.
- Check system expansion or compression tank and pressures.
- Check system make up valve; record static pressure.
- Verify system gauge accuracy.
- Clean external surfaces as necessary.

Gas Fired Unit Heater

Fall

- Inspect drive components; adjust as necessary.
- Test and inspect operating controls, relays, contractors, switches, conductors and safety controls.
- Inspect heat exchanger for defects and deterioration.
- Clean and inspect burners; adjust as necessary.
- Clean and adjust pilot flame assembly.
- Test ignition and flame proving components.
- Test fan control operation; adjust as necessary.
- Test operation of high temperature safety controls.
- Inspect gas line and shut off valve local to unit.
- Inspect combustion air openings.
- Inspect flue piping for blockage or deterioration.
- Test exhaust system for proper draft.
- Test operating conditions and performance; adjust for efficient and safe operation.
- Test gas manifold pressure.
- Inspect panels, dividers and secure access panels.

Winter

- Inspect drive components; adjust as necessary.
- Test and inspect operating controls, relays, contractors, switches, conductors and safety controls.
- Test ignition and flame proving components.
- Test operation of high temperature safety controls.
- Inspect flue piping for blockage or deterioration.
- Test exhaust system for proper draft.

Air Handler and Central Blower Systems

Spring

- Lubricate fan and motor per manufacturers' recommendation.
- Inspect drive components; adjust as necessary.
- Test motor operating current and voltage.
- Inspect motor starter and overloads.
- Inspect electrical connections; tighten as necessary.
- Inspect heating and/or cooling coils, drain pan and drain line for cleanliness; clean as necessary.
- Record heating and/or cooling coil Delta-T.
- Test and record heating and/or cooling coil Delta-P.
- Inspect outside air intake screen; clean as necessary.
- Test and inspect economizer system.
- Check outdoor air dampers for leakage.
- Record manometer readings if installed.
- Check control valves for wear or leakage.
- Inspect and clean strainers and/or inspect steam traps.
- Inspect unit panels, dividers, flashing, curbs and insulation.
- Inspect filters; change as necessary.
- Check low temperature limit control.

Summer

- Lubricate fan and motor per manufactures' recommendation.
- Inspect drive components; adjust as necessary.
- Test motor operation current and voltage.
- Inspect heating and/or cooling coils, drain pan and drain line for cleanliness; clean as necessary.
- Record heating and/or cooling coil Delta-T.
- Inspect outside air intake screen; clean as necessary.
- Test and inspect economizer system.
- Check outdoor air dampers for leakage.
- Record manometer readings if installed.
- Check control valves for wear or leakage.
- Inspect filters; change as necessary.

Fall

- Lubricate fan and motor per manufacturers' recommendation.
- Inspect drive components; adjust as necessary.
- Test motor operating current and voltage.
- Inspect heating and/or cooling coils, drain pan and drain line for cleanliness; clean as necessary.
- Record heating and/or cooling coil Delta-T.
- Inspect outside air intake screen; clean as necessary.
- Test and inspect economizer system.
- Lubricate and adjust dampers and linkages.
- Check outdoor air dampers for leakage.
- Record manometer readings if installed.
- Check control valves for wear or leakage.
- Inspect and clean strainers and/or inspect steam traps.
- Inspect unit panels, dividers, flashing, curbs and insulation.
- Inspect filters; change as necessary.

- Check low temperature limit control.

Winter

- Lubricate fan and motor per manufacturers' recommendation.
- Inspect drive components; adjust as necessary.
- Test motor operating current and voltage.
- Inspect heating and/or cooling coils for cleanliness; clean as necessary.
- Record heating and/or cooling coil Delta-T.
- Test and record heating and/or cooling coil Delta-P.
- Inspect outside air intake screen; clean as necessary.
- Test and inspect economizer system.
- Check outdoor air dampers for leakage.
- Record manometer readings if installed.
- Check control valves for wear or leakage.
- Inspect unit panels, dividers, flashing, curbs and insulation.
- Inspect filters; change as necessary.
- Check low temperature limit control.

Rapid Make Up Air Systems

Fall Heating Start-up

- Inspect drive belts for wear; replace as necessary per manufacturers' recommendation.
- Test blower drive belts for proper tension; adjust as necessary per manufacturers' recommendation.
- Inspect gas control assemblies, internal and external piping and shut off valves local to unit for leaks.
- Test air flow switch and pressure transducer tubing for dirt or blockage; clean as necessary.
- Test and inspect operation controls, relays, contractors, switches, conductors and safety controls.
- Remove, inspect and clean UV scanner and sight tube.
- Wire brush all stainless steel burner plates and ensure that all air holes are free of dirt.
- Wire brush spark plug points and check gap; adjust as necessary.
- Drill through all burner holes to ensure against blockage.
- Inspect electrical connections; tighten as necessary.
- Test gas manifold pressure; adjust as necessary.
- Inspect gas relief vent lines to ensure against blockage; clean as necessary.
- Inspect set screws on sheaves and linkages; tighten as necessary.
- Test and inspect operation of dampers and linkages; adjust and lubricate as necessary.
- Test operating conditions and performance; adjust for safe and efficient operation.

Operational

- Inspect drive belts for wear; replace as necessary per manufactures' recommendation.
- Test blower drive belts for proper tension; adjust as necessary per manufacturers' recommendation.
- Inspect sheaves for proper alignment and wear; adjust as necessary.
- Inspect air flow switch and pressure transducer tubing for dirt or blockage; clean as necessary.
- Test and inspect operating controls, relays, contractors, switches, conductors and safety controls.
- Test motor operating current and voltage.
- Inspect panels and dividers; secure access panels as necessary.
- Test and inspect operation of dampers and linkages.
- Test operating conditions and performance; adjust for safe and efficient operation.

Condensing Unit Air Cooled

Spring

- Test refrigeration system for proper operating charge, pressures and temperatures.
- Perform superheat and subcooling analysis.
- Test oil pressure control timing and operation as necessary.
- Inspect refrigeration system for leaks, loose connections and vibration.
- Inspect electrical connections; tighten as necessary.
- Test motor operating current and voltage.
- Test and inspect operating controls, relays, contractors, switches, conductors and safety controls.
- Test crankcase heater operation.
- Inspect coils for cleanliness; clean as necessary and straighten bent coil fins.
- Inspect unit panels, dividers, flashing, curbs and insulation.
- Inspect indoor blower; clean as necessary.
- Test operating conditions; adjust for efficient operation.
- Check oil level as necessary.
- Test unloader operation as necessary.
- Check and record condenser air side Delta-T.
- Inspect fan motors and fan blades.

Operational

- Test refrigeration system for proper operating charge, pressures and temperatures.
- Inspect refrigeration system for leaks, loose connections and vibration.
- Test and inspect operating controls, relays, contractors, switches, conductors and safety controls.
- Test crankcase heater operation.
- Test operating conditions; adjust for efficient operation.
- Check and record condenser air side Delta-T.
- Check oil level as necessary.
- Test unloader operation as necessary.
- Inspect fan motors and fan blades.

Computer Room Air-Conditioning Systems

Spring

- Lubricate fan and motor per manufacturers' recommendation.
- Inspect drive components; adjust as necessary.
- Test refrigeration system for proper operating charge, pressures and temperatures.
- Inspect refrigeration system for leaks, loose connections or vibration.
- Perform superheat and subcooling analysis.
- Check refrigeration circuit moisture indicator.
- Inspect electrical connections; tighten as necessary.
- Test motor operating current and voltage.
- Test and inspect operating controls, relays, contractors, switches, conductors and safety controls.
- Test crankcase heater operation.

- Inspect coils for cleanliness; clean as necessary and straighten bent coil fins.
- Inspect drain pan and drain line; clean as necessary.
- Inspect indoor blower; clean as necessary.
- Check oil level.
- Test control sequence operation.
- Inspect humidifier and drain; clean as necessary.
- Test humidifier operation and capacity.
- Test reheat system operation and capacity.
- Check alarm system operation and set points.
- Test and record air side Delta-T.
- Check economizer cooling coil controls and operation if installed.
- Check air cooled condenser or drycooler operation.
- Test and adjust refrigerant head pressure control settings.
- Test operating conditions; adjust for efficient operation.
- Test unloader operation.

Operational

- Lubricate fan and motor per manufacturers' recommendation.
- Inspect drive components; adjust as necessary.
- Test refrigeration system for proper operating charge, pressures and temperatures.
- Inspect refrigeration system for leaks, loose connections or vibration.
- Check refrigeration circuit moisture indicator.
- Inspect electrical connections; tighten as necessary.
- Test motor operating current and voltage.
- Test and inspect operating controls, relays, contractors, switches, conductors and safety controls.
- Test crankcase heater operation.
- Inspect drain pan and drain line; clean as necessary.
- Check oil level.
- Test control sequence operation.
- Inspect humidifier and drain; clean as necessary.
- Test humidifier operation and capacity.
- Test reheat system operation and capacity.
- Check economizer cooling coil controls and operation if installed.
- Check air cooled condenser or drycooler operation.
- Test and adjust refrigerant head pressure control settings.
- Test operating conditions; adjust for efficient operation.
- Test unloader operation.

Fall

- Lubricate fan and motor per manufacturers' recommendation.
- Inspect drive components; adjust as necessary.
- Test refrigeration system for proper operating charge, pressures and temperatures.
- Inspect refrigeration system for leaks, loose connections or vibration.
- Perform superheat and subcooling analysis.
- Check refrigeration circuit moisture indicator.
- Inspect electrical connections; tighten as necessary.
- Test motor operating current and voltage.
- Test and inspect operating controls, relays, contractors, switches, conductors and safety controls.
- Test crankcase heater operation.
- Inspect coils for cleanliness; clean as necessary and straighten bent coil fins.
- Inspect drain pan and drain line; clean as necessary.

- Inspect indoor blower; clean as necessary.
- Check oil level.
- Test control sequence operation.
- Inspect humidifier and drain; clean as necessary.
- Test humidifier operation and capacity.
- Test reheat system operation and capacity.
- Check alarm system operation and set points.
- Test and record air side Delta-T.
- Check economizer cooling coil controls and operation if installed.
- Check air cooled condenser or drycooler operation.
- Test and adjust refrigerant head pressure control settings.
- Test operating conditions; adjust for efficient operation.
- Test unloader operation.

Packaged AC Unit Water Cooled

Spring

- Lubricate fan and motor per manufacturers' recommendation.
- Inspect drive components; adjust as necessary.
- Test refrigeration system for proper operating charge, pressures and temperatures.
- Inspect refrigeration system for leaks; loose connections or vibration.
- Inspect electrical connections; tighten as necessary.
- Test motor operating current and voltage.
- Test and inspect operating controls, relays, contractors, switches, conductors and safety controls.
- Test crankcase heater operation.
- Inspect coils for cleanliness; clean as necessary and straighten bent coil fins.
- Inspect indoor blower; clean as necessary.
- Inspect unit panels, dividers, flashing, curbs and insulation.
- Inspect unit panels, dividers, flashing, curbs and insulation.
- Test operating conditions; adjust for efficient operation.
- Check oil level.
- Test unloader operation.
- Test and record condenser water Delta-T.

Operational

- Lubricate fan and motor per manufacturers' recommendation.
- Inspect drive components; adjust as necessary.
- Test refrigeration system for proper operating charge, pressures and temperatures.
- Inspect refrigeration system for leaks, loose connections or vibration.
- Inspect electrical connections; tighten as necessary.
- Test motor operating current and voltage.
- Test and inspect operating controls, relays, contractors, switches, conductors and safety controls.
- Test crankcase heater operation.
- Test operating conditions; adjust for efficient operation.
- Check oil level.
- Test unloader operation.
- Test and record condenser water Delta-T.

Packaged AC Unit Air Cooled

Spring

- Lubricate fan and motor per manufacturers' recommendation.
- Inspect drive components; adjust as necessary.
- Test refrigeration system for proper operating charge, pressures and temperatures.
- Inspect refrigeration system for leaks; loose connections or vibration.
- Inspect electrical connections; tighten as necessary.
- Test motor operating current and voltage.
- Test and inspect operating controls, relays, contractors, switches, conductors and safety controls.
- Test crankcase heater operation.
- Inspect coils for cleanliness; clean as necessary and straighten bent coil fins.
- Inspect drain pan and drain line; clean as necessary.
- Inspect indoor blower; clean as necessary.
- Inspect unit panels, dividers, flashing, curbs and insulation.
- Test operating conditions; adjust for efficient operation.
- Check oil level.
- Test unloader operation.

Operational

- Lubricate fan and motor per manufacturers' recommendation.
- Inspect drive components; adjust as necessary.
- Test refrigeration system for proper operating charge, pressures and temperatures.
- Inspect refrigeration system for leaks, loose connections or vibration.
- Inspect electrical connections; tighten as necessary.
- Test motor operating current and voltage.
- Test and inspect operating controls, relays, contractors, switches, conductors and safety controls.
- Test crankcase heater operation.
- Test operating conditions; adjust for efficient operation.
- Check oil level.
- Test unloader operation.

Terms and Conditions

1. The seller will provide the necessary labor and certain materials to properly maintain the equipment as listed on Equipment List Schedule-B. Scheduled maintenance will be provided on a regularly scheduled basis during the year as shown on Schedule-A.
2. Preferential emergency service will be provided to Maintenance Agreement customers.
3. That the seller shall not be required to move or remove, replace or alter any part of the building structure in the performance of this agreement or to make any corrections in design and/or engineering of the equipment or installation.
4. The seller shall not be required to identify, detect, encapsulate or remove asbestos, or any products or materials that may be hazardous in nature. If such products are encountered, the sellers only obligation will be to notify the purchaser about these materials.
5. The purchaser shall permit the seller free access to areas and equipment with the right to stop and start the equipment as required to perform the necessary services.
6. All labor covered by this Agreement shall be performed during normal working hours.
7. If a service related problem is noticed during inspection of equipment, the seller may charge the purchaser after proper authorization is given to the seller.
8. The seller shall in no event be liable and the purchaser will hold harmless the seller, its agent and employees from and against all claims, damages, losses and expenses arising out of or resulting from the performance of work hereunder.
9. This Agreement is not transferable or assignable. It is further understood that no other Agreement oral or written, expressed or implied shall be held to alter the provisions hereof. To be valid, all subsequent changes and/or modifications shall be embraced within a written document duly executed by both parties.
10. Under no circumstances whatsoever shall seller be responsible for loss of use, profit or increased operating expenses, claims of purchasers tenants or clients or any direct or indirect damages.
11. The seller is not obligated to render services under this Agreement if the purchaser has a past due account and may cancel this Agreement upon 15 days notice in the event that any moneys under any account are not paid when due.
12. The seller shall furnish purchaser with a copy of the service technicians service report and a copy of Mechanical Concepts, Inc. (MCI) maintenance/inspections checklist.
13. The seller's obligation under this Agreement (unless otherwise written herein) will not include non-maintainable items such as but not limited to latches, hardware or glass, ductwork, pressure vessels, boiler-chiller shell and tubes, boiler sections, boiler refractory, furnace heat exchangers, electric heating elements, cabinets, tower fill, disconnect switches, wiring, piping, breechings, chimneys and flues, coils, structural supports, storage tanks.
14. The seller will take all reasonable precautions to avoid damage to property or injury to others and will furnish supervisory help when necessary.
15. That the equipment listed in this agreement is being accepted with the understanding that said equipment is in a maintainable and good operating condition.
16. The seller shall not be held responsible for food spoilage, loss of business or any delay caused by strikes, riots, lockouts, transportation delays, accidents, acts of God, or any cause beyond its control.
17. The proposed agreement price stated on the front page of this document is valid for 30 days from date of this. agreement unless accepted by the owner.