## ADDENDUM No. 1

# RFP No. 22-34

## WTP HVAC Improvements – Phase II

## Due: May 10, 2022 at 2:00 P.M. (local time)

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum includes nine (9) pages.** 

The Proposer is to acknowledge receipt of this Addendum No. 1, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

The following forms provided within the RFP Document should be included in submitted proposal:

- Attachment D Prevailing Wage Declaration of Compliance
- Attachment E Living Wage Declaration of Compliance
- Attachment G Vendor Conflict of Interest Disclosure Form
- Attachment H Non-Discrimination Declaration of Compliance

### <u>Proposals that fail to provide these completed forms listed above upon proposal opening</u> <u>may be rejected as non-responsive and may not be considered for award.</u>

### I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the RFP documents which are outlined below are referenced to a page or Section in which they appear conspicuously. Offerors are to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

Section/Page(s)	Change
Specification 01 11 13, SUMMARY	On Table 1, Air Handler Shutdown line, Change Maximum Duration from 2 calendar days to 4 calendar days per AHU. On Water Quality Lab Construction (AHU 6) line, change Maximum Duration from 2 calendar days to 5 calendar days.
Specification 05 51 36, METAL WALKWAYS	Delete specification
Drawing M-103	On the Chemical Feed Building Fourth Floor/Mezzanine Plan, change Keynote 11 and limit of demolition symbol leader lines to point to the east exterior side of the duct chase.
Drawing M-104	Reissued

Drawing M-204	On the Chemical Feed Building Fourth Floor/Mezzanine Plan, change Keynote 2 and connection symbol leader lines to point to the east exterior side of the duct chase.		
Drawing M-501	Detail 5 removed		
Drawing M-701	In Sequence of Operations, change that' "alarms shall be sent to the SCADA system," to, "alarms shall be sent to the plant BMS system."		
Drawing M-702	In AHU-1 Controls Diagram and Sequence of Operations, change EF-18 to EF-A4.		
Drawing M-703	Reissued		
Drawing M-704	Reissued		

## **II. QUESTIONS AND ANSWERS**

The following Questions have been received by the City. Responses are being provided in accordance with the terms of the RFP. Respondents are directed to take note in its review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here. These questions and answers are provided for clarity and do not modify the bidding documents.

- Question 1: Are new variable frequency drives to be provided?
- Answer 1: Air flow control devices are intrinsic to equipment specified. Additional devices are not to be included in the bid.
- Question 2: Electrical drawings (general notes) ask for disconnects on equipment where there are no existing disconnects.
- Answer 2: As indicated in the general notes, new disconnects are to be provided.

Question 3:Can you provide a key that matches drawings to individual lines in the bid tab?Answer 3:See below:

- Item 2 Ventilation Improvements (Lime Rooms, Filter Gallery, Ammonia Building, Sodium Hydroxide Vault) drawings M-106, M-107, M-108, M-208 & M-301 / E-206, E-207 & E-208.
- Item 3 AHU Replacement & Roofing Repairs (AHU'S 1 through 4)- drawings M-101, M-102, M-103, M-201, M-202, M-203, M-204, M-205, M-901 & M-902 /E-201, E-202 & E-203.
- Item 4 AHU Replacement & Roofing Repairs (AHU-6 & FCU-1 / HP-1)- drawings M-104 & M-206 / E-204 & E-209 and Siemens software conversion.
- Item 5 AHU Replacement & Roofing Repairs (Ozone Building AHU'S 1, 2 & 3)- drawings M-105 M-207 / E-205.
- Item 6 Roofing Replacement (Administration Building)- drawings A-101, AD-101 & A-501.

Question 4: Can the pre-bid meeting sign-in sheet be provided? Answer 4: Attached.

- Question 5: Will the contractor have access to the freight elevator? What is are the internal dimensions and capacity (lbs) of the elevator?
- Answer 5: Yes, the contractor will have use of the freight elevator. The freight elevator door opening is 84" W x 96" H. The interior dimensions of the elevator are 69" D x 100" W x 100" H. The elevator is rated for 10,000 pounds.
- Question 6: Are there any roofing warranties in any of the work areas? If so, identify roofing manufacturers.
- Answer 6: Roof within area(s) of work is not under warranty.
- Question 7: Is the steam hydronic system drained in warmer months? If not, please confirm the contractor will not be draining, refilling, and/or commissioning the hydronic system.
  Answer 7: Yes, the hydronic system is drained in the summer months. The contractor is responsible for commissioning the new air handling units utilizing the hydronic system and verifying heating operations. City staff will prepare the hydronic system prior to work and refill it prior to start-up.
- Question 8: Where openings are being enlarged in existing masonry walls, is a new lintel to be installed?
- Answer 8: Yes. Refer to architectural detail for lintel information.
- Question 9: How does the contractor gain access to the duct chase shown on M-103?
- Answer 9: Limit of demolition is at duct chase wall, connect to existing at duct chase wall.
- Question 10: Is a drawing of the duct work required to be demolished for the lab bio-hood, per note 3 on M-104, available?
- Answer 10: M-104 is reissued in Addendum #1.
- Question 11: How do you access the lower chemical roof area, the area where the new condensing units will sit?
- Answer 11: There is a ladder and roof hatch in the fourth floor sludge pump room that leads to the lower roof.
- Question 12: Are the contract allowances Provisional Allowances subject to contractor markup?
- Answer 12: The permit allowance will not be eligible for contractor mark-up. Depending on the nature of the work, the Contractor likely will be allowed to mark-up subcontractors and realize a profit margin on self-performed work completed from the Temporary HVAC and Miscellaneous Allowances.
- Question 13: The administration AHU-6 will require a shut down of 5 days, can the allowable shut down time be extended to accommodate this?
- Answer 13: 5 days is acceptable. See CORRECTIONS/ADDITIONS/DELETIONS.
- Question 14: There is a metal walkways specification 05 51 36, where are there metal walkways on the project?
- Answer 14: No metal walkways needed. See CORRECTIONS/ADDITIONS/DELETIONS.
- Question 15: 01 11 13 1.02c reads "Suggested sequence for work is (work shall start demonstration period by end of specified ranges)" Does this mean that the performance, and/or operational testing is included in or excluded from the time frames listed in subpart C? If performance testing is included in suggested sequence of work time frames, then the durations listed are not feasible and the timeline will need to be extended to by approximately two weeks per area, with the mezzanine area extended an additional week. The substantial completion will need to be extended accordingly.

- Answer 15: Demonstration period can occur after these dates.
- Question 16: Regarding the "Summary of Shutdown Notices" what constitutes a unit being back online? What is the minimum amount of functionality required to be back online?
- Answer 16: A unit would be considered to be back online when it is providing heating and cooling to the space in "Automatic Mode" while communicating to the plant BMS System.
- Question 17: Does the Siemens scope of work include conduit and wire?
- Answer 17: Coordinate with Siemens.
- Question 18: Only one duct smoke detector is shown on the drawings, please confirm no other new duct detectors are required. If new duct smoke detectors are required, please identify the location of both the detector and the panel they are to be integrated into.
- Answer 18: Duct smoke detectors are required for AHU-6, AHU-2, AHU-O2, AHU-O3, and existing AHU-5. AHU-6 and AHU-2 will alarm back to the BMS system that the unit is off. AHU-O2 and AHU-O3 will not alarm to a panel, only shut down the unit. AHU-5 will alarm to the fire control panel as indicated on drawings.
- Question 19: Referring to M-702, is AHU-1 interlocked with EF-18 or EF-A4?
- Answer 19: AHU-1 is interlocked with EF-A4.
- Question 20: Do the alarms from AHU-6, AHU-2, and AHU-3 go to the plant's SCADA system or the building BMS?
- Answer 20: Alarms will go to the building BMS system.
- Question 21: Is there a vault hatch associated with exhaust fan EF-AM1?
- Answer 21: Yes, there is an existing hatch to access the ammonia hydroxide vault.
- Question 22: Do any of the buildings for this project require explosion-proof sensors or enclosures?
- Answer 22: No.
- Question 23: Do any of the buildings for this project have corrosive environments requiring specialty sensors or enclosures?
- Answer 23: No.
- Question 24: The schedule for AHU-6 on drawing M-601 calls for the supply and exhaust fans to be two fan arrays. Will these arrays have individual VFDs for each fan in the array or one VFD for both fans in the array?
- Answer 24: Single VFD to control both supply fans, single VFD to control both exhaust fans.
- Question 25 Please provide the location of the IT drops for all of the buildings to provide communication with the existing site Siemens building management system.
- Answer 25: Administration, chemical building and ozone buildings will be connected to the BMS. The locations of IT connections was discussed with Siemens outside of this Q&A.
- Question 26: For the CU and EF units mounted outside, per the NEC section 440, a disconnect should be within sight of the equipment. The CU and EF units would require a NEMA 3R rated enclosure instead of a NEMA 12 enclosure.
- Answer 26: Provide NEMA enclosure rated for outdoor applications.

Offerors are responsible for any conclusions that they may draw from the information contained in the Addendum.

Pre-Bid Meeting Sign-In

Project: AA WTP HVAC Improvements - Phase II Date April 11, 2022

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Dours Currol P.F.	Huron Valley Gleifric	734-548-4475	deundi Hanninn valleselectric.com



# **GENERAL NOTES**

- A. ALL ANCHORING EQUIPMENT ON EXTERIOR OF BUILDING IS TO BE OF STAINLESS STEEL CONSTRUCTION.
- B. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR ROLL EQUIPMENT OR MATERIALS OVER ROOF.
- C. SIZE, QUANTITY, AND LOCATION OF PIPING SHOWN IS APPROXIMATE. ANY SIZES INDICATED ARE TO AID CONTRACTOR IN ESTABLISHING DEMOLITION SCOPE ONLY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PIPING LOCATIONS AND SIZES PRIOR TO DEMOLITION. MEANS AND METHODS SHALL BE LEFT UP TO THE
- CONTRACTOR AT CONTRACTOR'S DISCRETION. D. CONTRACTOR SHALL ASSUME THERE ARE NO EXISTING ISOLATION VALVES OR THAT EXISTING ISOLATION VALVES ARE NON-FUNCTIONAL WHEN CONNECTING NEW PIPING INTO EXISTING. CONTRACTOR SHALL INCLUDE COST TO FREEZE OR HOT TAP PIPING, CUT AND PROVIDE ISOLATION VALVES SUCH THAT NEW WORK AND FUTURE MAINTENANCE CAN BE PERFORMED.
- E. CONTRACTOR SHALL COORDINATE ALL DISRUPTIVE OR "NOISY" WORK WITH OWNER AND OBTAIN OWNERS PERMISSION PRIOR TO PERFORMING DISRUPTIVE WORK. PERFORM WORK DURING OFF-HOURS IF NECESSARY. NOISY WORK MAY BE CONSIDERED, SAW CUTTING, CONCRETE DRILLING, GRINDER CUTTING, ETC. IF CONTRACTOR IS UNSURE WHAT WORK CONSTITUTES "NOISY" WORK, SUBMIT RFI TO OWNER FOR CLARIFICATION.

# (#) <u>KEYNOTES</u>

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- 1 DEMOLISH ROOF MOUNTED AIR HANDLING UNIT AHU-6, ASSOCIATED CONDENSING UNIT ACCU-6, ENERGY RECOVERY HEAT EXCHANGER, EXHAUST FAN EF-A3, AND ALL ASSOCIATED DUCTWORK, ACCESSORIES, AND SUPPORTS. COORDINATE WITH ELECTRICAL FOR EXTENT OF DEMOLITION OF CONTROLS AND WIRING. DEMOLISH SUPPLY AND RETURN DUCTWORK TO BELOW ROOF, ROOF PENETRATIONS ARE TO REMAIN. NATURAL GAS PIPING ABOVE ROOF IS TO REMAIN. DEMOLISH STEAM HUMIDIFICATION PIPING TO BELOW ROOF, CUT AND CAP. PATCH PIPING ROOF PENETRATIONS IN COORDINATION WITH ARCHITECTURAL ROOF WORK. CONTRACTOR IS TO INSPECT ROOF CURB, ROOFING, STRUCTURAL STEEL, ETC. BENEATH AND AROUND DEMOLISHED UNIT FOR EVIDENCE OF WATER LEAKAGE. CONSULT WITH ENGINEER AND OWNER ON RECOMMENDED REPAIRS AND LEAK PREVENTION SOLUTIONS PRIOR TO NEW CONSTRUCTION.
- 2 AIR HANDLING UNIT AHU-7 AND EXHAUST FAN EF-A5 SERVING BASEMENT LEVEL OF ADMINISTRATION ~ BUILDING ARE TO REMAIN DEMOLISH EXHAUST FAN SERVING BIO-HOOD IN LABORATORY AREA AND ALL ASSOCIATED ACCESSORIES, SUPPORTS, CONTROLS AND WIRING. DEMOLISH DUCTWORK TO BELOW ROOF, PATCH ROOF
- PENETRATION IN COORDINATION WITH ARCHITECTURAL ROOF WORK. DEMOLISH FAN COIL UNIT IN ENCLOSED OFFICE AND ALL ASSOCIATED ACCESSORIES, OUTDOOR EQUIPMENT, PIPING, AND SUPPORTS. COORDINATE WITH ELECTRICAL FOR EXTENT OF DEMOLITION OF
- CONTROLS AND WIRING. 5 EXISTING LABORATORY AREA, CORRIDORS, STORAGE, ENCLOSED OFFICE, AND OTHER SPACES ARE TO MAINTAIN CURRENT DUCTWORK ROUTING, AIR TERMINAL PLACEMENT, AND SYSTEM BALANCING. INSTALL NEW THERMOSTAT FOR RTU-6 IN SAME OR SIMILAR LOCATION AS EXISTING THERMOSTAT.
- DEMOLISH CEILING MOUNTED EXHAUST SNORKELS AND ALL MOUNTING EQUIPMENT. EXHAUST DUCTWORK, ACCESSORIES, AND ACOUSTIC CEILING TILES ARE TO REMAIN.



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SCALE: 1/8" = 1'-0"



THE SUPPLY FAN SHALL CYCLED ON DURING UNIT OPERATION. A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR DIFFERENTIAL PRESSURE ACROSS THE FAN. IF THE SWITCH DOES NOT OPEN WITHIN 40 SECONDS AFTER REQUEST FOR FAN OPERATION, A FAN FAILURE ALARM SHALL BE ANNUNCIATED AT THE UNIT

IF SUPPLY DUCT STATIC PRESSURE REACHES 4.00 INCHES OF W.C. (ADJ.), THE HIGH LIMIT PRESSURE SWITCH SHALL SHUT DOWN THE UNIT, REQUIRING A MANUAL RESET TO RE-START THE UNIT. SUPPLY AND EXHAUST

A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR DIFFERENTIAL PRESSURE ACROSS THE FILTER WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSES FOR 2 MINUTES AFTER A REQUEST FOR FAN OPERATION, A





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			RETURN	
			AIR	
		AO-RETUR		AI - FILTER DIFFERENTIAL PRE
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		BI - DAMPER F		
		BO - OUTSIDE AIR	DAMPER	
		EA		н <u>АНU-O2, АНU</u>
	N.C.	/		
	VFD		N.C. AFMS	
		SPACE -	TEMPERATURE	
	BU - EXHAUST FAN START/STUP	S	SENSOR	
	AO - EXHAUST FAN SPEED	Γ		GAS
E				AO - HEATIN
	OZONE BUILI	DING HEATING AND VENTI	LATION (AHU-O2. A	HU-03. EF-02. EF-03)
				<u>,,,,</u>
_	SEQUENCE SUMMARY: MANUFACTURER SHALL PROVIDE THE UNIT WITH A STAN FEATURES. ALL CONTROL SENSORS AND DEVICES INDIC/ INTENT OF THESE SEQUENCES.	D-ALONE UNIT CONTROLLER CAPABLE TED SHALL EITHER BE PROVIDED BY M	OF THE FOLLOWING SEQUE IANUFACTURER OR CONTRO	NCES OF OPERATIONS AND MINI DLS CONTRACTOR IN ORDER TO
	<u>THE CONTROL OF AHU-O2, AHU-O3, EF-O2, AND EF-O3, IN</u> <u>PROVIDED BY THE CONTRACTOR. CONTRACTOR SHALL F</u> <u>NECESSARY TO MEET THE INTENT OF THESE SEQUENCE</u> <u>SYSTEM.</u>	STRUMENTS, GAUGES, CONTROL VALV PROVIDE ALL NECESSARY WIRING AND AND THE CONTROL DIAGRAMS SHOW	<u>'ES, AND ACCESSORIES SHA</u> CONDUIT, DEVICES, CONTR IN. CONTRACTOR SHALL CO	ALL UTILIZE THE CONTROL SYST OLLERS, INTERLOCKS, AND SWI ORDINATE FOR A FULLY FUNCTI
	RUN CONDITIONS AHU-O2 AND AHU-O3 SHALL CYCLE ON AND OFF TO MAIN	AIN SPACE TEMPERATURE, UNLESS SI	HUT DOWN ON SAFETIES OF	R TURNED OFF MANUALLY AT THE
D	CONTROLLERS, MOTOR STARTERS, OR DISCONNECTS. IN OUTSIDE AIR DAMPER WILL OPEN 100% AND EF-O2 AND E BELOW PERMISSIBLE LIMITS AND THE ALARM HAS BEEN ( TO 10% OPEN.	THE EVENT OF HIGH OZONE LEVELS D F-03 WILL TURN ON TO PURGE THE SP CLEARED, EF-02 AND EF-03 WILL TURN	DETECTED BY OZONE MONIT ACE OF EXCESS OZONE. ON OFF AND AHU-O2 AND AHU-	OR WITHIN THE SPACE, AHU-O2 ICE THE OZONE LEVEL WITHIN TI O3 OUTSIDE AIR DAMPERS WILL
	STATUS = ON (DEFAULT): OUTSIDE AIR DAMPERS OPEN F MODULATES AS INITIALIZED BY DISCHARGE TEMPERATU	OR 10% OUTSIDE AIR, AHU-O2 AND AHL RE SENSOR.	J-O3 SUPPLY AND RETURN F	AN ON, EF-O2 AND EF-O3 OFF, G
	STATUS = ON (HIGH OZONE): OUTSIDE AIR DAMPERS OPE AND EF-O3 ON, GAS BURNER MODULATES AS INITIALIZED	N FOR 100% OUTSIDE AIR, AHU-O2 AND BY DISCHARGE TEMPERATURE SENSO	) AHU-O3 SUPPLY FAN ON, A' DR.	HU-O2 AND AHU-O3 RETURN FAN
	STATUS = OFF: ALL DAMPERS CLOSED, ALL FANS OFF.			
_	FILTER DIFFERENTIAL PRESSURE MONITOR: THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL P	RESSURE ACROSS THE FILTER.		
	ALARMS SHALL BE PROVIDED AS FOLLOWS: FILTER CHANGE REQUIRED: WHEN THE DIFFERENTIAL PF DROP).	ESSURE ACROSS THE FILTER EXCEED	S THE MEAN PRESSURE DRO	OP (150% OF THE CLEAN FILTER
	<u>FAN STATUS FLOW SWITCH:</u> PROVIDE A FLOW SWITCH IN THE DISCHARGE OF THE AH WIRED TO CONTROLLER AND IF NO FLOW IS DETECTED V	U-O2 AND AHU-O3 AND ON THE INTAKE 'ISUAL AND AUDIBLE ALARMS SHALL BE	OF THE EXHAUST FANS EF- COMMUNICATED TO THE S	O2 AND EF-O3. FLOW SWITCH SH CADA OPERATOR DISPLAY.
С	<u>FREEZE PROTECTION:</u> IF THE SUPPLY AIR TEMPERATURE IS BELOW 30 °F AND T SHUT DOWN AND AN ALARM SHALL BE PROVIDED. UNITS	HE FANS HAVE BEEN RUNNING FOR 5 M SHALL REQUIRE MANUAL RESTART ON	INUTES THE OUTSIDE AIR D FREEZE PROTECTION.	DAMPER SHALL CLOSE, THE UNIT
	<u>SMOKE DETECTION:</u> THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM	UPON RECEIVING A SMOKE DETECTOR	STATUS. UNIT SHALL REQU	IRE A MANUAL RESTART.
	OUTSIDE AND DISCHARGE AIR DAMPER: THE OUTSIDE AND DISCHARGE AIR DAMPERS SHALL OPE START ONLY AFTER THE STATUS OF BOTH DAMPERS IS "	N ANYTIME AHU-O2 AND AHU-O3 RUN A DPEN". THE OUTSIDE AIR DAMPER SHA	ND SHALL CLOSE ANYTIME T LL CLOSE 15 SEC (ADJ.) AFT	THE UNIT STOPS. THE SUPPLY FA ER THE SUPPLY FAN STOPS.
_	<u>SUPPLY FAN:</u> THE SUPPLY FAN SHALL RUN TO MAINTAIN SPACE TEMPE SPEED.	RATURE AND VENTILATION UNLESS SH	IUT DOWN ON SAFETIES ANI	D SHALL DEFAULT TO RUN AT 100
	ALARMS SHALL BE PROVIDED AS FOLLOWS: <ul> <li>OUTSIDE OR DISCHARGE AIR DAMPER FAILURE: COMI</li> </ul>	ANDED OPEN BUT THE STATUS IS CLC	JSED.	
	<ul> <li>OUTSIDE OR DISCHARGE AIR DAMPER IN HAND: COMM</li> <li>HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERA</li> </ul>	/ANDED CLOSED, BUT THE STATUS IS ( TURE IS GREATER THAN 110 °F (ADJ.).	OPEN.	
	<ul> <li>LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERA</li> <li>SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STA</li> <li>SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE ST</li> </ul>	TURE IS LESS THAN 40 °F (ADJ.) AFTER .TUS IS OFF. ATUS IS ON.	5 MINUTES.	
в	<u>EXHAUST FAN (EF-O2 AND EF-O3):</u> THE EXHAUST FANS SHALL RUN WHENEVER OZONE LEVE	LS ABOVE PERMISSIBLE LIMIT ARE DET	FECTED AND SHALL DEFAUL	T TO RUN AT 100% OF DESIGN SF
	ALARMS SHALL BE PROVIDED AS FOLLOWS: • EXHAUST FAN FAILURE: COMMANDED ON, BUT THE S • EXHAUST FAN IN HAND: COMMANDED OFF, BUT THE S	ATUS IS OFF.		
	SUPPLY AIR TEMPERATURE:			$\sim$
_	THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEM	PERATURE AND SHALL RELAY THIS PO		ER.
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