



# ROANOKE COUNTY

Purchasing Division

5204 Bernard Drive, Suite 300-F, P.O. Box 29800

Roanoke, Virginia 24018-0798

TEL: (540) 772-2061 FAX: (540) 772-2074

April 11, 2022

## ADDENDUM NO. 1 TO ALL BIDDERS/OFFERS:

Reference – RFP 2022-083

Description: Hidden Valley Middle Cooling Tower Replacement

Issue Date: March 31, 2022

Proposal Due: April 14, 2022

The above Project is hereby changed as addressed below:

1. Clarification of Project Scope: Please see Exhibit 1 to this addendum for revised project plans. In the event of any conflict between this Exhibit 1 and the original project plans included in IFB 2022-083, this Exhibit 1 to Addendum 1 shall rule.
2. Pre-Bid Conference Sign-In Log: See Exhibit 2 to this addendum for a copy of the sign-in sheet from the mandatory pre-bid conference held on April 7, 2022.
3. Responses to Bidder Questions: Please see below for questions submitted by prospective bidders, and the responses provided by the County/RCPS as we are able.
  - a. Is a suction diffuser or wye strainer required for each pump?  
*RCPS would like to have a strainer on each pump if possible.*
  - b. Is a circuit setter and check valve required on discharge of each pump?  
*RCPS would like to have a check valve on each pump if possible. A circuit setter is not necessary.*
  - c. Who is the current controls contractor for this school?  
*Control equipment is manufactured by Schneider Electric, Continuum Series. RCPS will handle the controls once the equipment has been installed. Contractor must install 2 gauge wells for water temperature sensors.*
  - d. On Drawing MD1, note 1, is this work part of the cooling tower replacement project?  
*Yes, this work is included in the project scope.*
  - e. Lead times on cooling towers may be too far out to meet the project completion date. Will the County be extending the completion date for this project?  
*As stated at the pre-proposal conference, the County/RCPS intends to be realistic regarding project completion. Bidders should indicate their estimated completion date on the bid form. The successful bidder will be expected to communicate effectively regarding lead times and any delays, and provide backup documentation as applicable. RCPS will approve delays as necessary.*

**Note:** A signed acknowledgment of this addendum must be received at the location indicated on the original solicitation either prior to the proposal due date or attached to your proposal. Signature on this addendum does not substitute for your signature on the original proposal/bid document. The original proposal/bid document must be signed.

Thank you,

Kate Hoyt  
Phone: (540) 283-8149  
[KHoyt@roanokecountyva.gov](mailto:KHoyt@roanokecountyva.gov)

\_\_\_\_\_  
Sign Name:

\_\_\_\_\_  
Print Name:

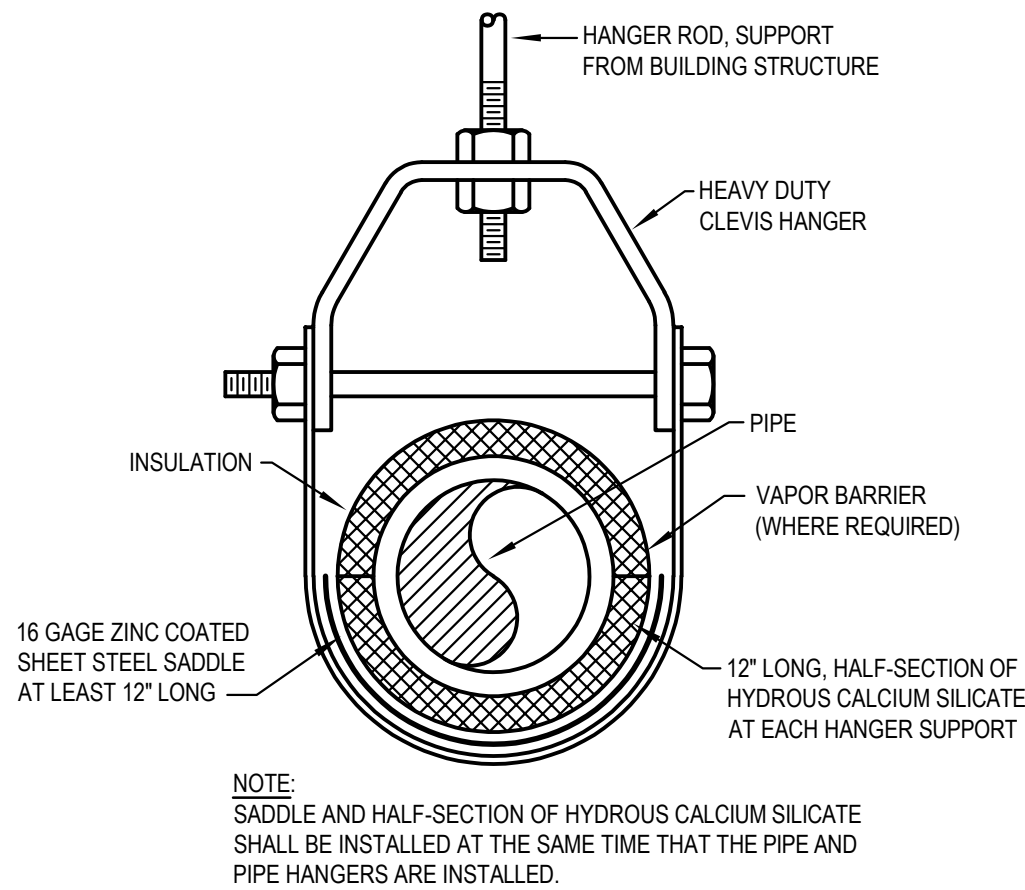
\_\_\_\_\_  
Name of Firm:

\_\_\_\_\_  
Date:

PUMPS: BELL & GOSSETT OR EQUAL										
MARK	SERVICE	PUMP TYPE	CAPACITY (GPM)	HEAD		MOTOR HP	RPM	NPSHr	VOLTS / PH	SERIES
				FT. H2O				FT. H2O		
CDP-1	COOLING TOWER WATER	END SUCTION	1152	55		20	1800	14.5	460 / 3	e-1510
CDP-2	COOLING TOWER WATER	END SUCTION	1152	55		20	1800	14.5	460 / 3	e-1510
NOTES: 1. PUMP OPERATION TO ALTERNATE.										

HEAT EXCHANGER: MUELLER	
UNIT MARK	HX-1
HOT SIDE, HEAT PUMP LOOP	--
FLOW RATE, GPM	1280
EWI / LWT, ° F	99 / 90
MAX WATER PRESSURE DROP, PSI	4.0
COLD SIDE, COOLING TOWER LOOP	--
FLOW RATE, GPM	1152
EWI / LWT, ° F	95 / 85
MAX WATER PRESSURE DROP, PSI	3.4
NUMBER OF PLATES	294
FRAME LENGTH, IN	82
ESTIMATED UNIT WEIGHT, LBS	7,380
MODEL NUMBER	ACCU-THERM 80M HV

COOLING TOWER: MARLEY	
UNIT MARK	CT-1
NUMBER OF CELLS	2
PROCESS WATER FLOW RATE, GPM	1152
EWI / LWT, ° F	95 / 85
EAT, ° F WB	78
FAN MOTOR HP, PER CELL	7.5
AIR FLOW, CFM, PER CELL	57,700
SUMP HEATER, KW, PER CELL	12
UNIT ELECTRICAL, V / Ph	460 / 3
SHORT CIRCUIT CURRENT RATING, kAIC	22
ESTIMATED UNIT WEIGHT, LBS, TOTAL	25,130
MODEL NUMBER	AV6807
NOTES: 1. TOWER FANS TO INCLUDE VFD'S IN NEMA-3R ENCLOSURE.	



**PIPE SUPPORT DETAIL**  
NO SCALE

**GENERAL NOTES:**

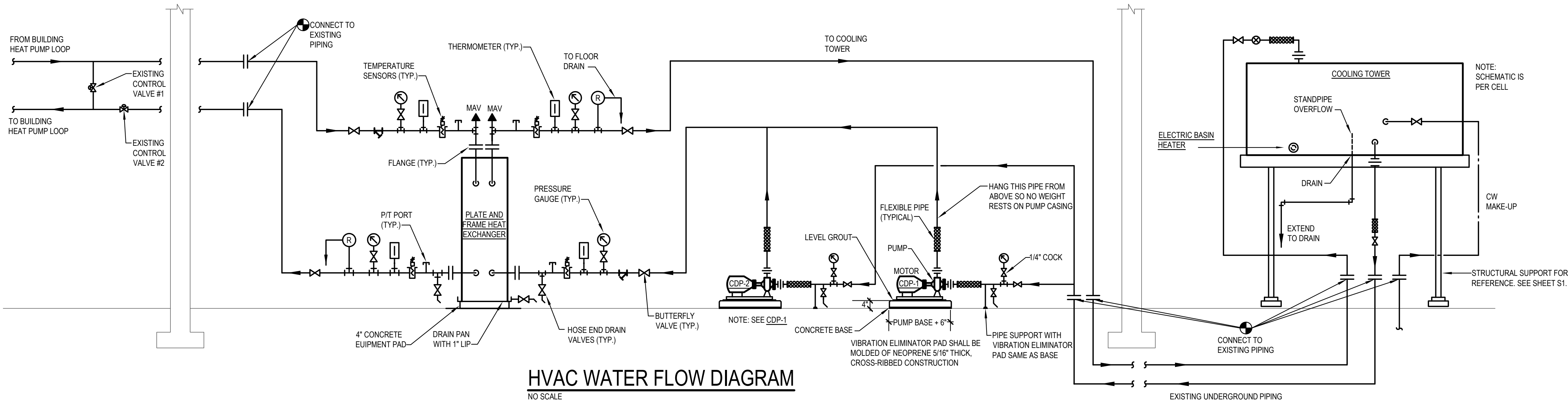
- DRAWINGS ARE DIAGRAMMATIC IN NATURE. ALL PIPING SHALL BE COORDINATED WITH OTHER NEW AND EXISTING DUCTS, PIPES, LIGHTS, STRUCTURAL SYSTEM, AND FRAMING BEFORE INSTALLATION. PIPE OFFSETS SHALL BE PROVIDED AS REQUIRED.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTRUCTIONS.
- CONTRACTOR SHALL SEAL AND FLASH ALL PENETRATIONS IN EXISTING WALLS.
- VERIFY WALL OPENINGS WITH STRUCTURE.
- VERIFY THE LOCATION OF ALL SENSORS, PANELS AND CONTROL INSTRUMENTS WITH THE OWNER PRIOR TO ROUGH-IN.
- VERIFY LOCATIONS OF NEW AND EXISTING EQUIPMENT AND ROUTE OF PIPING WITH EXISTING CONDITIONS.
- CONTRACTOR SHALL PROVIDE ALL SUPPORTS REQUIRED TO MOUNT MECHANICAL EQUIPMENT AND PIPING.
- WHERE PIPE CONNECTIONS ARE SHOWN CONNECTING TO EXISTING, CONTRACTOR SHALL DETERMINE EXACT LOCATIONS AND CONNECTION SIZES PRIOR TO INSTALLATION.
- PIPE INSULATION ON EXISTING PIPING THAT IS DAMAGED OR REMOVED FOR NEW WORK SHALL BE REPLACED, REPAIRED AND SEALED AS REQUIRED TO MATCH EXISTING.
- EXPOSED PIPING RUNOUTS SHALL BE INSTALLED IN PRACTICAL ALIGNMENT WITH THE BUILDING AND SHALL BE ADEQUATELY SECURED TO THE BUILDING STRUCTURE.
- PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS. COORDINATE INSTALLATION OF PIPING WITH EXISTING ELECTRICAL PANELS.

**DEMOLITION NOTES:**

- THE CONTRACTOR SHALL REMOVE OR ALTER AS NECESSARY ALL EXISTING PIPING, EQUIPMENT AND APPURTENANCES THAT ARE NOT REQUIRED FOR THE EXISTING SYSTEMS TO REMAIN. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE SCOPE OF THIS WORK AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS.
- EXISTING EQUIPMENT SHALL BE TURNED OVER TO THE OWNER, UNLESS DIRECTED OTHERWISE AND LOCATED AS DIRECTED BY THE OWNER. ALL OTHER ITEMS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE PREMISES.
- INSULATION ON EXISTING PIPING THAT IS DAMAGED OR REMOVED DUE TO THE DEMOLITION WORK SHALL BE REPLACED AND SEALED AS REQUIRED.

**HVAC LEGEND**

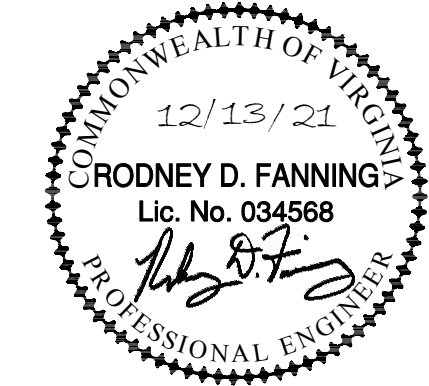
ABOVE	ABV	
BALANCING VALVE		
CHECK VALVE		
CIRCUIT SETTER		
CONDENSER WATER PUMP	CDP	
CONDENSER WATER RETURN PIPE	CDR	
CONDENSER WATER SUPPLY PIPE	CDS	
DRAIN PIPE	D	
CUBIC FEET PER MINUTE	CFM	
DIRECTION OF SLOPE DOWN		
DEGREES FAHRENHEIT	°F	
DIAMETER	" DIA	
DIRECTION OF FLOW		
DOMESTIC COLD WATER PIPE	CW	
DRY BULB	DB	
ENTERING WATER TEMPERATURE	EWI	
EXISTING, REMOVE FROM THIS POINT		
FEET	FT	
FEET PER MINUTE	FFM	
FLEXIBLE PIPE CONNECTION		
FLOOR	FL	
FROM	FRM	
GALLONS PER MINUTE	GPM	
GLOBE VALVE	GBV	
HORSEPOWER	HP	
INCH	IN	
LEAVING WATER TEMPERATURE	LWT	
MANUAL AIR VENT	MAV	
NEW CONNECTED TO EXISTING	NC	
NORMALLY CLOSED	NO	
NORMALLY OPEN		
PIPING INDICATION WITH RESPECT TO FLOW		
BOTTOM TAKEOFF		
SIDE CONNECTION		
TOP TAKEOFF		
TURN DOWN OR FROM BELOW		
TURN UP OR DOWN		
TURN UP OR FROM ABOVE		
POUNDS	LBS	
POUNDS PER SQUARE INCH GAGE	PSIG	
PRESSURE DROP	PD	
PRESSURE GAUGE		
PRESSURE RELIEF VALVE		
REVOLUTIONS PER MINUTE	RPM	
SERVICE VALVE		
STRAINER		
THERMOMETER		
THOUSAND BTU PER HOUR	MBH	
TWO-WAY CONTROL VALVE		
UNION		



**HVAC WATER FLOW DIAGRAM**

NO SCALE

NOTE:  
VALVES AND INSTRUMENTS SHALL BE MOUNTED WHERE ACCESSIBLE FOR SERVICE.



REVISION	DATE
	04/07/2022

DESIGNED RWR	DRAWN RWR
CHECKED RDF	APPROVED RDF
COMM. NO. 21101.51	DATE 12-13-21
SHEET <b>M0</b>	

IFB #2022-083 HVMS Cooling Tower Replacement  
Pre-Bid Conference Sign-In Log

April 7, 2022

9:30 AM

(PLEASE PRINT)

Name/Title REN OBAUGH OWNER  
 Organization OBAUGH HVAC MECHANICAL  
 Email & Phone ROBAUGH @ OBAUGH HVAC.COM

Name/Title John Sink outside sales  
 Organization Obaugh hvac mech  
 Email & Phone jsink@oboughhvac.com

Name/Title Steve Burton , Project Manager  
 Organization CSE inc.  
 Email & Phone Steve. Burton@cseonline.net

Name/Title Greg Doolley  
 Organization CSE inc. Branch Manager  
 Email & Phone Greg.doolley@cseonline.net

Name/Title Fred Burton  
 Organization Southern Air, Inc.  
 Email & Phone frederick.burton@southern-air.com 477-841-5861

Name/Title Robert Tyree  
 Organization Southern-Air Inc  
 Email & Phone Robert.Tyree@southern-air.com 477-941-2047

Name/Title Meade Carter  
 Organization HTK Mechanical  
 Email & Phone mcarter@htkmechanical.com 297-9815

Name/Title Al Rainieri  
 Organization Building Specialists Inc  
 Email & Phone DHURST@BSIVA

IFB #2022-083 HVMS Cooling Tower Replacement  
Pre-Bid Conference Sign-In Log

April 7, 2022

9:30 AM

(PLEASE PRINT)

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Name/Title Sean O'Brien / AS Client Solutions Manager  
Organization ACI  
Email & Phone Sean.obrien@acibuilds.com (540) 239-7412

Name/Title ED Ponce / Proj. Mgr.  
Organization Valley Boiler & Mechanical  
Email & Phone Solutions@valleyboiler.net

Name/Title Joe Vyhnarik Mechanical Specialist  
Organization ACI Atlanta Constructors inc.  
Email & Phone joe.vyhnarik@acibuilds.com

Name/Title Travis Quesenberry  
Organization RWH Mechanical Sales  
Email & Phone travis@RWHages.net 540-562-0500

Name/Title Bill Rockefeller / PROJECT MGR  
Organization VARNEY INC  
Email & Phone brockefeller@varneyinc.com / 540-761-2133

Name/Title \_\_\_\_\_  
Organization \_\_\_\_\_  
Email & Phone \_\_\_\_\_

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