Date: 04-05-21

Re: Addendum No. 1 to the Bidding Documents for Chiller Replacement – Bureau of Motor Vehicles

Please include the following recommended changes:

GENERAL

A. Refer to attached attendance sheet for individuals present at the mandatory pre-bid meeting, held on March 31, 2021.

B. Items discussed at the pre-bid meeting:
   1. General project description: the project will replace the current water cooled chiller with a modular water-cooled chiller. Chilled water pumps and piping will be replaced. Chilled water and condenser water pumps will be converted to variable speed control to accommodate modular chiller turndown capacity. Chilled water piping will be replaced in its entirety/upsized and upgraded. **Clarification to discussion at the site: Upon review of the specs subsequent to the pre-bid meeting, it is confirmed that new chilled water piping shall be constructed of schedule 40 steel with welded, flanged or grooved joints.** Condenser water piping shall be schedule 80 CPVC. A chilled water buffer tank will be installed to minimize short cycling. All new controls will be integrated with Honeywell building automation system. A new roof hatch will be installed to facilitate equipment installation. The existing cooling tower, condenser pumps, and chemical treatment system shall remain.
   2. A 5% Bid Surety will be required, submitted with the bid.
   3. Project will require 100% Payment and 100% Performance Bonds
   4. Bid date/time is April 23, 2021 at 2:00 PM.
   5. No filed sub bids will be required. The project is primarily mechanical. Mechanical contractors who bid as general contractors shall execute the project scope with all required sub-trades, in its entirety.
   6. Although some on-site work may be initiated over the late Spring/Summer 2021 timeframe, the existing chiller shall remain on-line and operational until September 27, 2021. Substantial completion is scheduled for December 17, 2021.
   7. The rubber roof above the Penthouse was replaced within the last five years and is under warranty. It is a Carlisle roof which was installed and is maintained by Glidden Roofing. The contractor shall strictly adhere to the roof manufacturer's requirements for all work associated with modifications to the membrane, insulation, and deck such that the existing warranty is maintained.
   8. The building will be occupied throughout the duration of the project. The contractor shall minimize noise and disruption to the extent possible during normal business hours, although it is the intent that work in the renovation areas may occur during those times.
   9. The contractor will be required to provide bi-weekly look ahead schedules such that the building occupants are aware of the construction activities planned.
   10. The parking lot and sidewalk is new. The contractor shall protect surfaces from damages.

C. Item discussed during the project walk-through:
   1. There are hot water supply and return pipes that serve a unit heater running below the area for the proposed roof hatch, as well as a 1'2" chemical feed line for the condenser loop. These will need to be relocated to facilitate the installation of the equipment.

2. There are many electrical conduits running across the penthouse below the new roof hatch location, approximately 8'-7" above finish floor and 6'-10" below the roof deck. It is the intent that these conduits stay in place, with a requirement to offset the equipment below the hatch to avoid the conduits as part of the rigging path.

QUESTIONS ASKED SUBSEQUENT TO THE PRE-BID MEETING:

A. **Question:** Will Trane be allowed to bid the equipment for the project?

AEI Response: Yes, provided they meet the specified intent.

CHANGES TO THE DRAWINGS:

A. DELETE Sheet MH-100 in its entirety. **ADD** in its place, Sheet Mh-100, re-issued with revisions, attached.

Attachments: Pre-Bid Meeting Attendance Sheet, Sheet MH-100

END OF ADDENDUM #1

Allied Engineering
Structural Mechanical Electrical Plumbing

PRE-BID MEETING SIGN IN SHEET

Date: 03-31-21

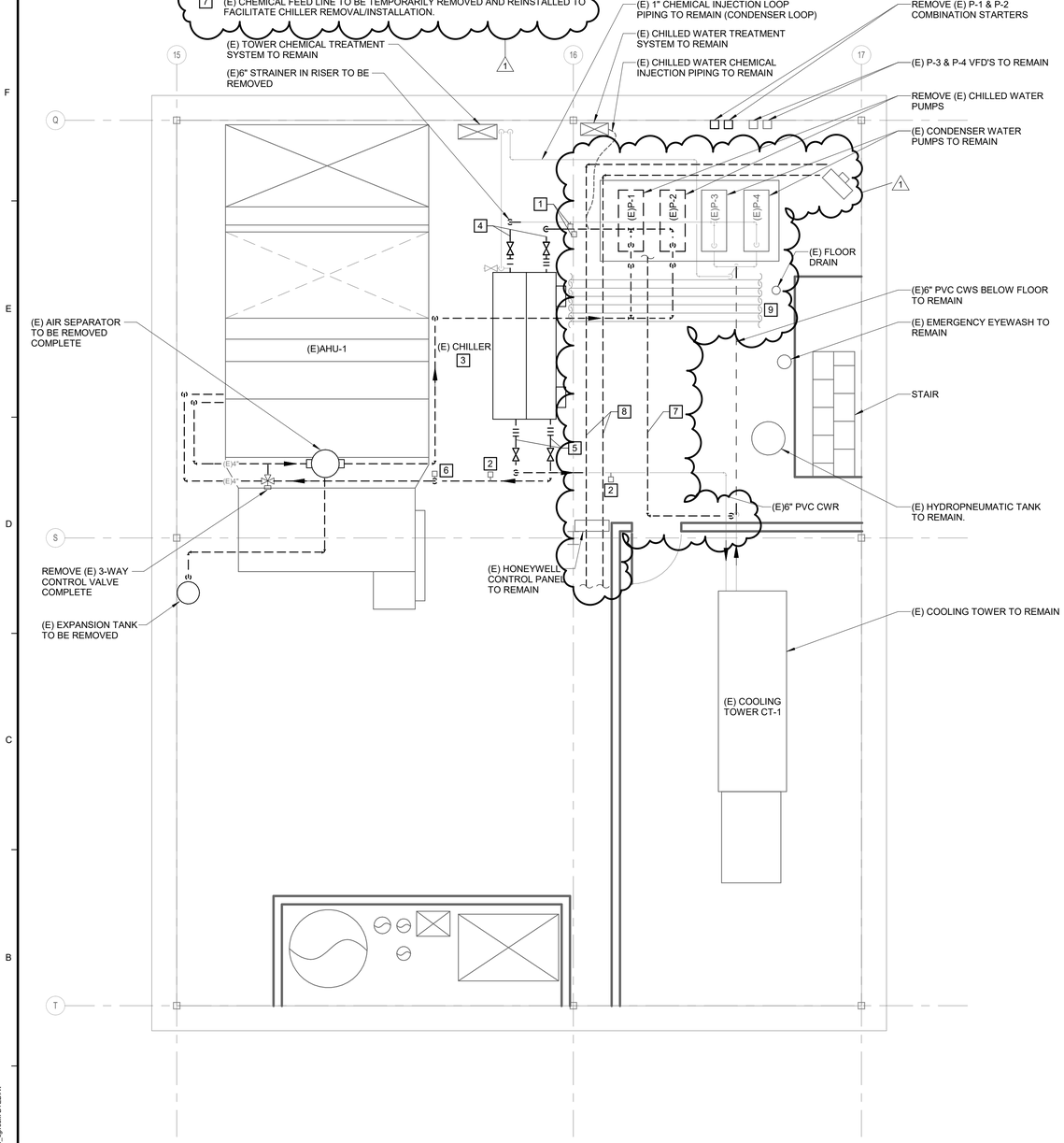
Project: Chiller Replacement – Bureau of Motor Vehicles

Name	Representing	Cell Phone	E-mail
Tony Davis	Allied Engineering	207-838-8296	adavis@allied-eng.com
BRUCE DAMON	DAMON MECH	207-212-6151	BDAMON @ DAMONMECHCAL.com
Steve Michaud	NA Preble Co.	207-249-2113	steve @ normspreble.com
David McCue	Radigan Mechanical	207-290-2169	Radiganmech2@AOL.com
Don Brewer	AAA Energy	207-416-2047	DBrewer@AAAEnergy.com
CHUCK GREENLAW	PORT CITY MECHANICAL	207-272-4664	CHUCK@PORTCITYMECHANICAL.COM
DYLAN MICHAUD	COTE CRANE	207-754-9904	dmichaud@cotecrane.com
Tom Bull	BMV		
Jill Instasi	BGS		

Please return this sheet to Tony Davis @ Allied engineering, Inc.

DEMOLITION KEYED NOTES:

1. (E) TEMPERATURE SENSOR TO REMAIN.
2. (E) FLOW SWITCH TO BE REMOVED.
3. REMOVE (E) WATER COOLED CHILLER COMPLETE. CONTRACTOR SHALL EVACUATE AND PROPERLY DISPOSE OF (E) REFRIGERANT AND DISMANTLE THE CHILLER AS REQUIRED FOR REMOVAL.
4. REMOVE (E) CHWR &CWS SUPPLY PIPING AND FLEX CONNECTORS AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW CHILLER.
5. REMOVE (E) CHWS & CWR PIPING AND FLEX CONNECTORS AS REQUIRED TO FACILITATE THE INSTALLATION OF THE NEW CHILLER.
6. RELOCATE (E) TEMPERATURE SENSOR.
7. (E) CHEMICAL FEED LINE TO BE TEMPORARILY REMOVED AND REINSTALLED TO FACILITATE CHILLER REMOVAL/INSTALLATION.
8. (E) HWS/HWR PIPING TO BE TEMPORARILY REMOVED AND REINSTALLED TO FACILITATE REMOVAL AND INSTALLATION OF THE CHILLER.
9. (E) CONDUITS, LOCATED AT ~ 8'-7" AFF AND 6'-10" BELOW DEK ARE SCHEDULED TO REMAIN. COORDINATE RIGGING TO OFFSET EQUIPMENT TO AVOID DISRUPTING.

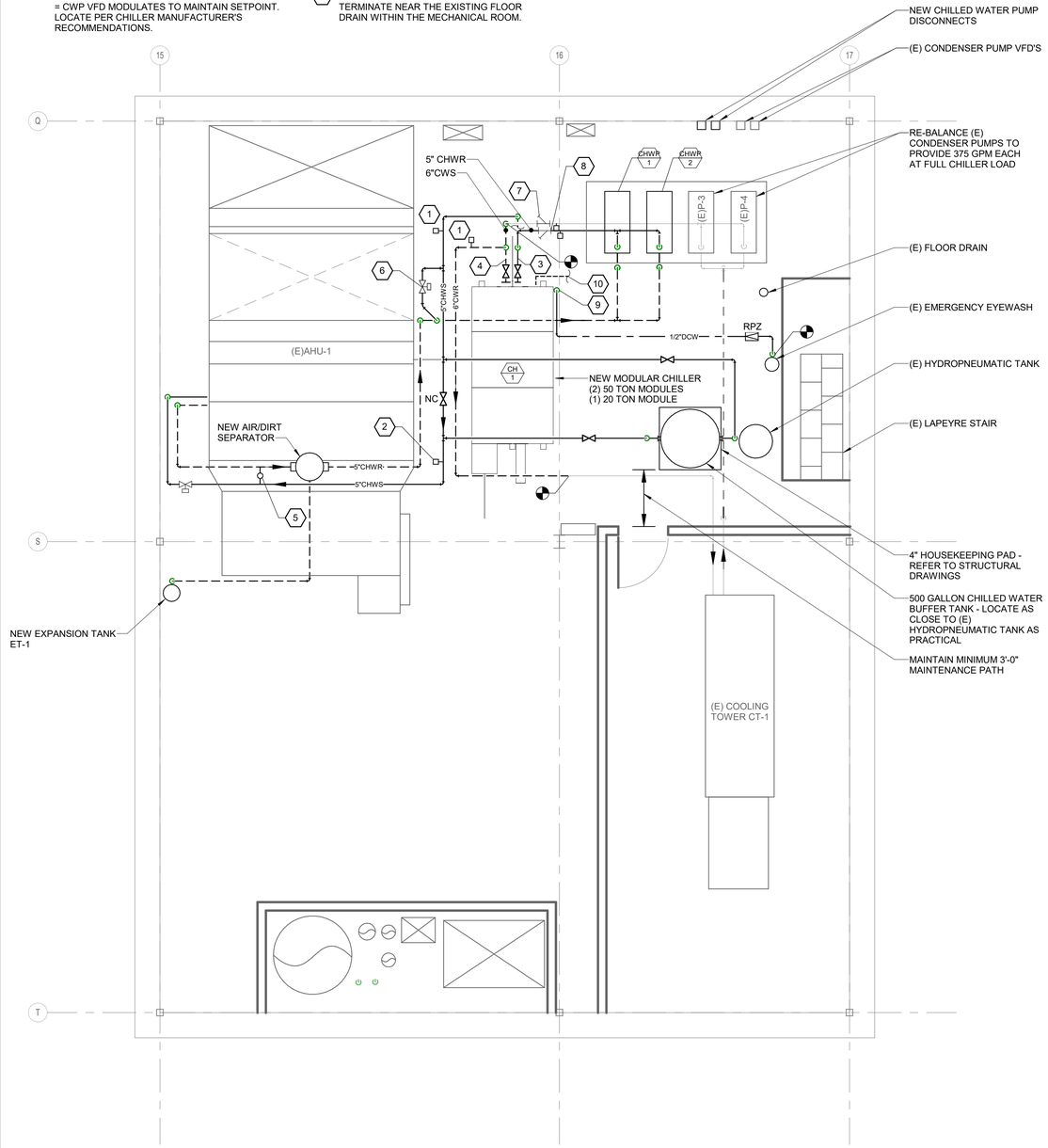


KEYED NOTES:

1. CHILLER FLOW SWITCHES ARE SHOWN DIAGRAMATICALLY. SWITCHES SHALL BE FACTORY INSTALLED AT EACH MODULE AND FOR BOTH THE EVAPORATOR AND CONDENSER SECTIONS AS SPECIFIED.
2. RELOCATED (E) TEMPERATURE SENSOR.
3. FURNISH AND INSTALL A DIFFERENTIAL PRESSURE TRANSMITTER BETWEEN CHWS + CHWR TO MONITOR/CONTROL DP ACROSS THE EVAPORATOR - BYPASS VALVE MODULATES TO MAINTAIN SETPOINT FOR MIN FLOW - 96 GPM. LOCATE PER CHILLER MANUFACTURER'S RECOMMENDATIONS.
4. FURNISH AND INSTALL A DIFFERENTIAL PRESSURE TRANSMITTER BETWEEN CWS + CWR TO MONITOR/CONTROL DP ACROSS THE CONDENSER = CWP VFD MODULATES TO MAINTAIN SETPOINT. LOCATE PER CHILLER MANUFACTURER'S RECOMMENDATIONS.
5. FURNISH AND INSTALL A DIFFERENTIAL PRESSURE TRANSMITTER BETWEEN CHWS + CHWR - CHWP VFD MODULATES PUMP SPEED TO MAINTAIN DP SETPOINT.
6. BYPASS VALVE SIZED FOR 145 GPM.
7. FURNISH AND INSTALL A NEW 6" STRAINER EQUAL TO EATON MODEL 85Y, 30 MESH STRAINER.
8. FURNISH AND INSTALL A NEW 5" STRAINER EQUAL TO EATON MODEL 85Y, 30 MESH STRAINER.
9. DROP AND CONNECT TO AUTOMATIC STRAINER FLUSH SUPPLIED WITH CHILLER.
10. EXTEND AUTOMATIC FLUSH DRAIN LINE TO TERMINATE NEAR THE EXISTING FLOOR DRAIN WITHIN THE MECHANICAL ROOM.

GENERAL NOTES:

1. REFER TO STRUCTURAL DRAWING FOR CREATING AN OPENING THROUGH THE PENTHOUSE ROOF AS REQUIRED TO FACILITATE RIGGING FOR THE CHILLER AND BUFFER TANK.
2. THE CONTRACTOR SHALL COORDINATE STRICTLY WITH THE CHILLER MANUFACTURER FOR SHIPPING OF THE CHILLER IN SEPARATE MODULES TO FACILITATE EASE OF RIGGING INTO THE SPACE. ONCE IN PLACE, THE CONTRACTOR SHALL ASSEMBLE THE CHILLER USING FACTORY SUPPLIED BASE TUBES. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A FACTORY AUTHORIZED TECHNICIAN FOR A MINIMUM OF 8 HRS TO SUPERVISE AND OVERSEE THE ASSEMBLY PROCESS TO INSURE THAT THE INSTALLATION MEETS FACTORY REQUIREMENTS. COORDINATE AS REQUIRED TO INSURE COMPONENTS ARE CONFIGURED TO FACILITATE THE FIELD ASSEMBLY. IF THE CONTRACTOR FEELS THAT THROUGH THE USE OF ADDITIONAL RIGGING REQUIREMENTS AND RELOCATION OF EXISTING UTILITIES WITHIN THE PROJECT MECHANICAL ROOM, THE CHILLER MAY BE RIGGED INTO PLACE AS A SINGLE, FACTORY ASSEMBLED UNIT, THAT SHALL BE ACCEPTABLE, PROVIDED THE CHILLER SHIPS WITH APPROPRIATE LIFTING RAILS AND THE UTILITY RELOCATIONS DO NOT CAUSE DISRUPTION TO THE FACILITY OUTSIDE OF THOSE RESULTANT OF SIMPLE CHILLER DECOMMISSIONING.



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Allied Engineering
Structural Mechanical Electrical Commissioning

STATE OF MAINE
ANTHONY S. ARTUSO
No. 9824
REGISTERED PROFESSIONAL ENGINEER

REVISIONS

No.	DATE	BY	DESCRIPTION
1	4-5-21	CRG	ISSUED FOR ADDENDUM #1

Date: 12-22-2020
Drawn By: CRG
Checked By: ASD
Project Mgr: ASD
Project No: 20051
Cad File:
Graphic Scale: 0" 1"

MECHANICAL PART PLAN

STATE OF MAINE BUREAU OF MOTOR VEHICLES
CHILLER REPLACEMENT
101 Hospital Street, Augusta, ME 04330

MH-100

ISSUED FOR BID

A1	MECHANICAL DEMOLITION PART PLAN
1/4" = 1'-0"	

A6	MECHANICAL PART PLAN
1/4" = 1'-0"	

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