

Thursday July 23, 2015

ADDENDUM NUMBER ONE (1)

To the Plans and Specifications for:

**Lake County Dog Shelter
Boiler and Fluid Cooler**
2600 N. Ridge Road
Painesville, OH 44077

For

Lake County Board of Commissioners

Prepared by:

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1540 Corporate Woods Parkway
Uniontown, Ohio 44685

TO ALL BIDDERS:

This Addendum supplements and amends the original drawings and specifications, and shall be taken into account in preparing proposals, and shall become part of the Contract Documents. You must indicate receipt for ALL addenda on your Bid Form.

HVAC

ITEM NO. 1: Specification Section 232400 – CLOSED CIRCUIT COOLING TOWER NON-CHEMICAL WATER TREATMENT

1. Part 2.2.A. Add to this paragraph the following: “The pulse-pure water treatment system manufactured by Evapco will also be acceptable.”

ITEM NO. 2: Specification Section 235223 – FULLY CONDENSING HIGH EFFICIENCY CAST IRON BOILER

1. Boiler to be furnished with self-contained controls. Digital control interface to be eliminated and boiler must be provided with stand-alone controls with an adjustable high limit. Boiler high limit shall be set at 140° and setpoint for boiler water shall be 125°.

ITEM NO. 3: Specification 236513 – CLOSED-CIRCUIT MECHANICAL DRAFT COOLING TOWERS

1. Part 1.6. Eliminate paragraph in its entirety. Warranty is specified in 2.2.N.
2. Part 2.2.A.1. Eliminate the requirement of the hybrid polymer coating.
3. Part 2.2.F. Eliminate requirement for polymer coating on panels.
4. Part 2.2.J. Eliminate paragraph in its entirety and replace with the following: “The fluid cooler shall be sized for the capacity required. There shall not be a height, length, width or weight restriction as long as fluid cooler can be installed in the location shown in the drawing. The mounting rail detail shown on the drawing will require adjustment based on the fluid cooler provided. The details shown on drawing H5-0 is for the specific model scheduled on the documents. The model shown on the documents is a Baltimore Aircoil VFL-024-22J.”

5. Part 2.2.M. Delete paragraph M and replace with the following:

“Fluid cooler manufacturer shall provide a Nema-3R 3/60/208V wall mount style starter panel loose to be mounted on the fluid cooler. Manufacturer shall also furnish a VFD for the fan motor in a Nema 3R enclosure loose for field mounting. Panel shall be complete with I.E.C. style starters and contactors. Furnish one main non-fused disconnect switch with cover interlock, fuse blocks with fuses, spray pump motor starter with three-leg overload protection, control circuit transformer with fused primary and secondary, pilot lights, power on light, hand/off/auto switches, all internal factory wiring, terminal strip and U.L. approval. Fan motor VFD shall include a main circuit breaker or disconnect, and contractor shall provide a unit mounted safety switch. Controls to include a two stage T-stat to stage spray pump and Fan/VFD. Two wires start wired shall be field wired to VFD from cooler panel for start/stop. Panel shall also provide necessary power connection (110 V) for non-chemical water treatment panel, conductivity controller and blow down valve. All panels to be field mounted and wired as required for a fully operational system. The sequence of operation shall be as follows:
Sequence of Operation:
The control panel shall be manually turned on and put into automatic mode. Once turned on the fluid cooler will automatically control fan speed through the VFD and the spray pump in two stages to maintain an outlet (supply) temperature of 90°F. Setpoint shall be 85°F but actual temperature may climb to 90°F on hot days. The control panel will also control water quality with a “non-chemical” treatment system which will include a blow down valve. Several devices will be shipped loose for field mounting. The contractor is responsible for coordinating and wiring all components for a complete operating system. At the end of the cooling season panel shall be manually turned off and all components shall be drained down.”
6. Part 2.2.N. Eliminate subparagraphs a, b, and d.

ITEM NO. 4: Drawing H0-0 – EVAPORATIVE FLUID COOLER SCHEDULE

1. Revise the EWT to 100 and the LWT to 90.

ITEM NO. 5: Drawing H2-0

1. VFD-FC-1 is now shown inside the building. The VFD will be mounted in a control panel on the fluid cooler by the fluid cooler manufacturer.

ITEM NO. 6: Drawing H3-0

1. DDC Controls will be eliminated from the project. All new control valves shown on drawing H3-0 are to be eliminated. Valves noted to have new operator will be left in place and be manually opened and closed. Provide a new 3” butterfly valve on the secondary heat pump return line upstream of B1 and a new 3” butterfly isolation valve immediately downstream of B1 on the 3” common supply line. Contractor shall develop a valve schedule for all modes of operation. Schedule shall list all valve positions. Schedule shall be framed and hung in the mechanical room. All valves must be tagged to match the schedule.

ITEM NO. 7: Drawing H4-0

1. Eliminate Drawing from Contract Documents. All controls will be manual. Refer to Addendum Item for additional control panel to be furnished with fluid cooler FC-1. Boiler temperature to be set on boiler control panel.

ITEM NO. 8: Drawing H5-0 – STEEL SUPPORT DETAIL FOR FLUID COOLER

1. Add new note number 6. Detail shown is for the fluid cooler scheduled. Revise detail as required if different manufacturer is used. Support detail should be recommended and approved by unit manufacturer as well as engineer.

ELECTRICAL

ITEM NO. 1: Drawing E1-0 – NEW WORK – GROUND FLOOR PLAN – ELECTRICAL

1. Refer to sketch drawing SKE1-0 for revised Fluid Cooler electrical design. Coordinate wiring with fluid cooler manufacturer.

END OF ADDENDUM NUMBER ONE (1)

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23. VARIABLE FREQUENCY DRIVE WITH NEMA 3R ENCLOSURE FURNISHED BY MC, EC TO INSTALL AND POWER WIRE.

24. DRILL, SLEEVE AND SEAL EXTERIOR WALL WEATHER TIGHT.

25. SEAL OFF FITTING AND FLEXIBLE METAL CONDUIT ADAPTER.

26. LIQUIDTIGHT FLEXIBLE METAL CONDUIT.

27. HEAT TRACE CONNECTION BOX. PROVIDE CAST "FS" STYLE J-BOX AT 24" AFF FOR CONNECTION TO HEAT TRACE (8W/LF).

28. EXTERIOR THERMOSTAT PROVIDE WITH HEAT TRACE BY MC, EC TO INSTALL IN CAST "FS" BOX AT 24" AFF.

29. STARTER PANEL (208V,3 ϕ) WITH NEMA 3R ENCLOSURE FOR EVAPORATOR FLUID COOLER "FC-1".

30. WATER PUMP (0.5HP,208V,3 ϕ).

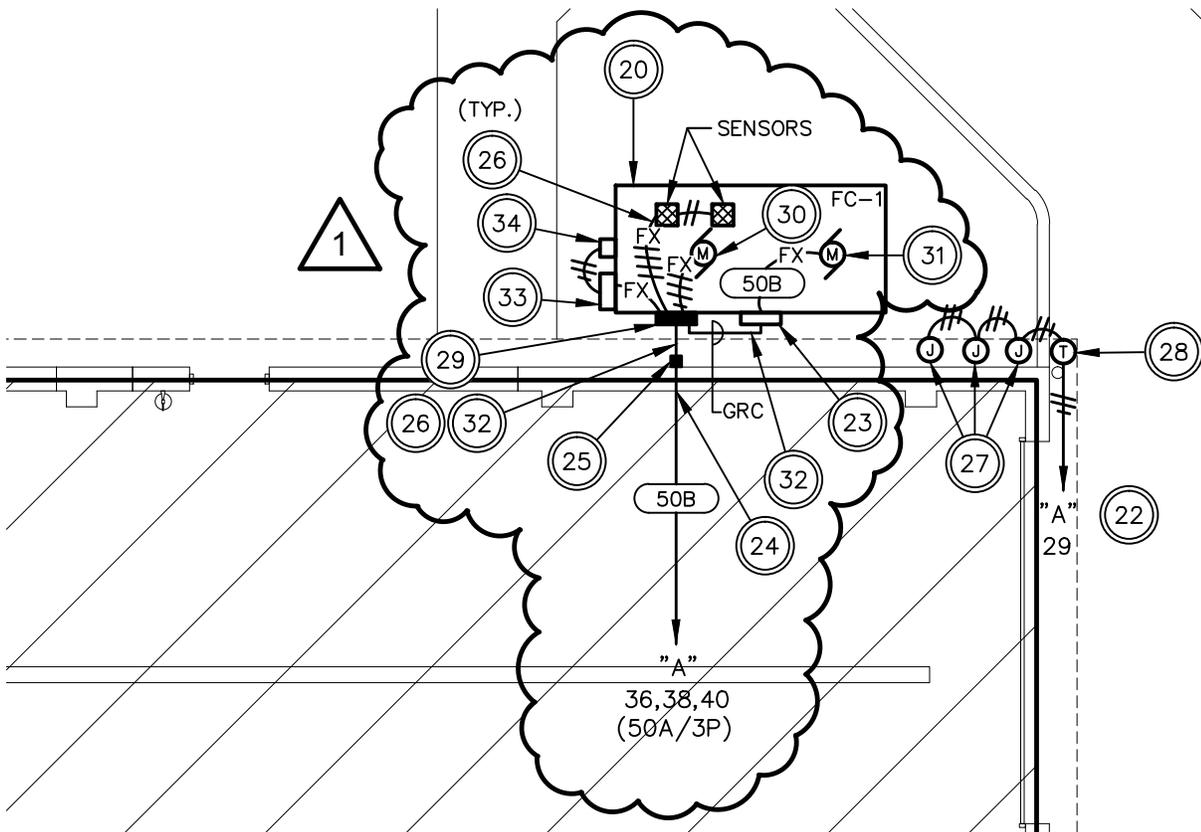
31. FLUID COOLER MOTOR (7.5HP,208V,3 ϕ).

32. CONDUIT SIZE TO BE 50B. REFER TO FEEDER SCHEDULE FOR MORE INFORMATION.

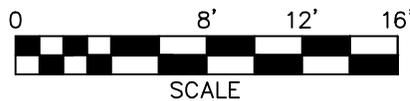
33. CHEMICAL TREATMENT PANEL (120V,1 ϕ) WITH NEMA 3R ENCLOSURE.

34. WEATHERPROOF BLOW DOWN VALVE (120V,1 ϕ).

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NEW WORK - GROUND FLOOR PLAN - ELECTRICAL



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JOB TITLE:

**LAKE COUNTY DOG SHELTER
FLUID COOLER-BOILER**

REF. FILE: M:\2014\14151\Design\Elec\14151_E1-0.dwg

BULLETIN NO.

SKETCH NO.

SCALE:
SEE PLAN

SKE1-0

DATE:
07/23/15

SHEET NO.

DRWN:
MK

E1-0