



CITY OF MOOSE JAW

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Instruction to Bidders

TENDER FOR HUMIDIFIER REPLACEMENT WORK LIBRARY/ ART MUSEUM

CITY OF MOOSE JAW, SASKATCHEWAN
FEBRUARY 8, 2019

INSTRUCTION TO BIDDERS

ADDENDUM #4

The following amendments to plans and specifications shall be incorporated into and form part of the Contract the same as if these had been written into the original plans and specifications. Reference to specifications also applies to drawings with or without specific reference thereto and vice versa. All bidders shall read the entire Addendum and take into account items affecting their respective responsibilities.

1.0 REFER TO DRAWING M6.2 & DETAIL 4/M3.6

1.1 Question/Concern

The detail of the location of the humidification wands in the MUA unit will not work according to the cascade drawing M6.4, Detail 4. There are lights, sprinklers, in all locations where the wand should be installed. Each wand is 9.38" tall and there are 5 of them indicating the duct must be a minimum of 46-7/8" in height. There is currently only 41 1/2" from underside of Q- Deck to top of t-bar main.

Answer

Humidifiers are 7.05" high. If cascading installation clearance between units can be reduced to a minimum 1.5" this will reduce overall duct height to 41.25". Change H7 unit specification as following to reduce unit to 4 high which will reduce duct height to 38". See revised unit specification below:

H7 — Humidifier #7

Supply & install a Stulz Ultrasonic Humidification System within existing make-up air unit "MA- 1" supply air duct on outlet side of existing supply air duct.



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Humidification system to include 4 — model DAH-30 humidifiers and an ultra-series proportional control panel with (2) auxiliary panels ULS-5-DAH-30-A. Main control and first auxiliary panel electrical to be 208 volts, single phase with an MCA of 6.1 amps and a maximum fuse size of 15 amps. Provide electrical supply to main control box and auxiliary control. Second auxiliary panel electrical to be 208 volts, single phase with an MCA of 12.2 amps & a 20A MD maximum full size, including wiring between control panel and auxiliary control panels to humidifiers @ 906 watts, 20 amp, 5 wire (including ground) to each humidifier. Mount control panel and auxiliary panels in ceiling space at existing humidifier mounted unit location. Mount humidifiers (4) within supply air duct at nearest horizontal duct run to make-up unit as per manufacturer's recommendations. Contractor to determine exact location on site. Unit to be controlled via a 4— 20 MA signal from existing Metasys Building Management System and relative humidity sensor located a minimum of 3 meters downstream of humidifier unit. Total weight is approximately 220 lbs. See Detail 3/M6.5.

1.2 Question/Concern

Also, there are three S/A distribution pipe take-offs at this location that feed the existing fan coils that would have to be relocated.

Answer

Include relocation of the (3) Supply Air distribution ducts and connect downstream of the new humidifier transition duct to suit.

1.3 Question/Concern

Data communication cable that connects the wands to the controller are only 25' long. Can they be longer? Distance is over 30'.

Answer

Supplier advises that data communication cable can be longer and 30' will not be an issue.

2.0 REFER TO DRAWING M6.1

2.1 Question

The wand for AHU-3 will not fit into the ductwork as shown as there is no straight section of duct before it splits and runs in two different directions into the Museum. It does not appear that there is enough room to mount the wand in the unit itself.

Answer

Create a horizontal transition for the humidifier directly above the air handling unit as shown on attached sketch "Air Handling Unit #3-H3".



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3.0 REFER TO DRAWING M6.3 & DETAIL 1/M6.5

3.1 Question

The wand for AHU-6 cannot fit in the unit either and the nearest location is in the adjacent corridor above the other ductwork. If we install the wand in the ductwork there will be no way of servicing the wand without removing the duct below first.

Answer

It is permissible to install the humidifier within the unit return air duct as long as the humidifier is not directly upstream of the fan. Consider relocation of the humidifier into the return air duct to determine if installation and maintenance clearances are better

