



**MUSGROVE ENGINEERING**  
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# ADDENDUM # 1

MECHANICAL

JOB #: 12-225

DATE: 1/3/13

SHEET 1 OF 4

PREPARED BY: Mike Purcell

PROJECT: DPW #13720, IDVS: Replace HVAC Controls System, VETB

## NOTICE TO BIDDERS:

THIS **ADDENDUM NO. 1** IS HEREBY MADE A PART OF THE PROJECT REQUIREMENTS AND CONTRACT DOCUMENTS FOR THE PROJECT REFERENCED ABOVE.

1. Sheet M1.1, Sheet M3.1 (Fan Coil Control System Schematic), and Sheet M4.1 (Control Valve Schedules) – This system is a 4 pipe system. Each fan coil having valves replaced will require 2 control valves, one for heating and one for cooling. The floor plans, schematic, and schedules show a single valve for each fan coil. Two are required. See attached drawing, M3.1 R1.
2. Specifications, page 15900-1, 1.1.A – The reference to the Niagara AX Framework is in regards to the front end of the DDC system. The system integrates the security and HVAC controls through this framework. This framework is only applicable to this integrator portion of the system, which is not being replaced. The HVAC portion of the system to be replaced is to be Reliable, matching existing remaining components.
3. Sheet M3.2 (Steam Boiler Control Schematic) -- Additional points should be added to each boiler, DI-status and DO-enable. See attached drawing, M3.2 R1.
4. Contractor to provide points for control of two future water heaters to be located in basement mechanical room – enable/disable, pump status, alarm, and supply temperature. See attached drawing, sheet M3.3 R1.
5. Bid due date/time: January 9, 2013, 2 pm.

END OF ADDENDUM 1



**MUSGROVE**  
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OVER 30 YEARS OF EXCELLENCE  
project number: 12225

PROJECT NAME

DPW #13720  
IDVS: REPLACE HVAC  
CONTROL SYSTEM, VETB  
BOISE, ID

DRAWN

MP

ARCH. PROJECT #

12-225

CHECKED

BC

DATE

1/3/13

SCALE

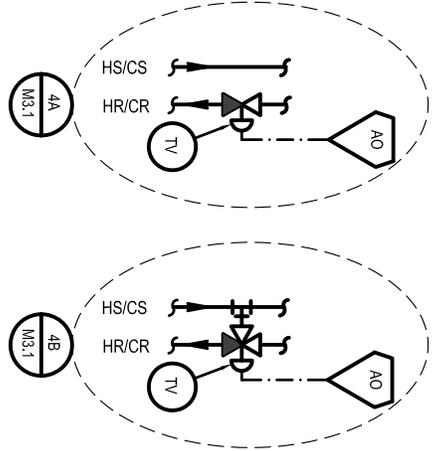
NTS

REF. SHEET

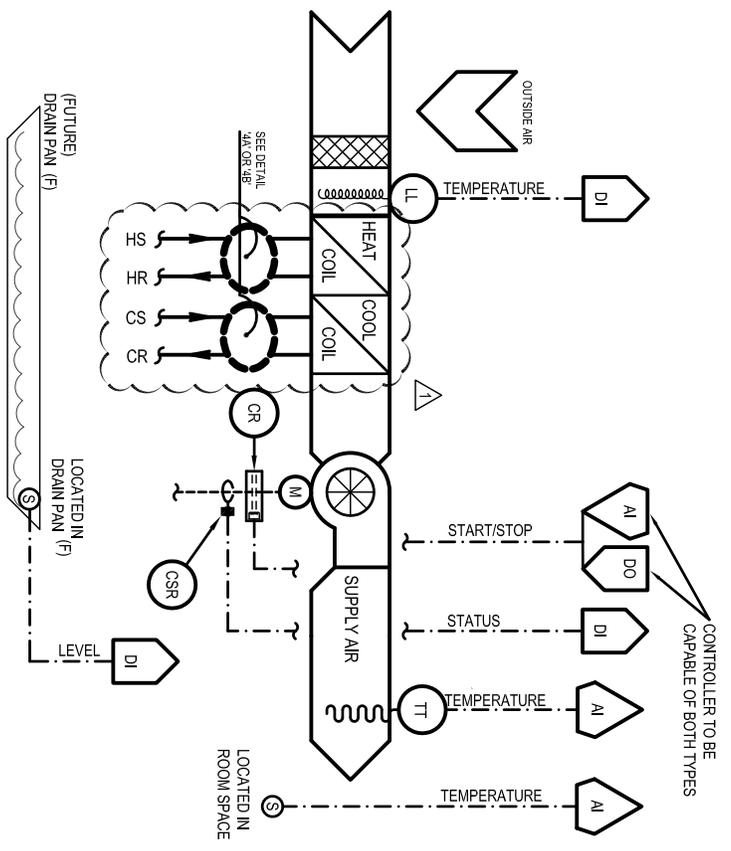
M3.1

SHEET NO.

M3.1 R1



1. THE EXISTING FAN COILS DO NOT HAVE A SECONDARY DRAIN INDICATION SYSTEM. IN A FUTURE PROJECT, THERE WILL BE MOISTURE SENSORS INSTALLED AND A CONTROLS STRATEGY TO SENSE THE SECONDARY WATER AND DE-ENERGIZE THE UNIT PRIOR TO ANY DAMAGE WITHIN THE FACILITY. ALSO, THE SECONDARY SYSTEM WILL ALARM THE CENTRAL OPERATORS WORK STATION. SINCE THIS IS A FUTURE PROJECT, THIS CURRENT DDC PROJECT SHALL MAKE PROVISIONS TO ACCOMMODATE THIS FUTURE CONTROL. NO ACTUAL SENSOR NEEDS TO BE INSTALLED AT THIS TIME. JUST PROVISIONS IN THE NEW DDC SYSTEM TO ACCOMMODATE THIS FEATURE IN THE FUTURE.



**FAN COIL CONTROL SYSTEM SCHEMATIC**  
NTS



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SHEET NO.  
M3.2 R1

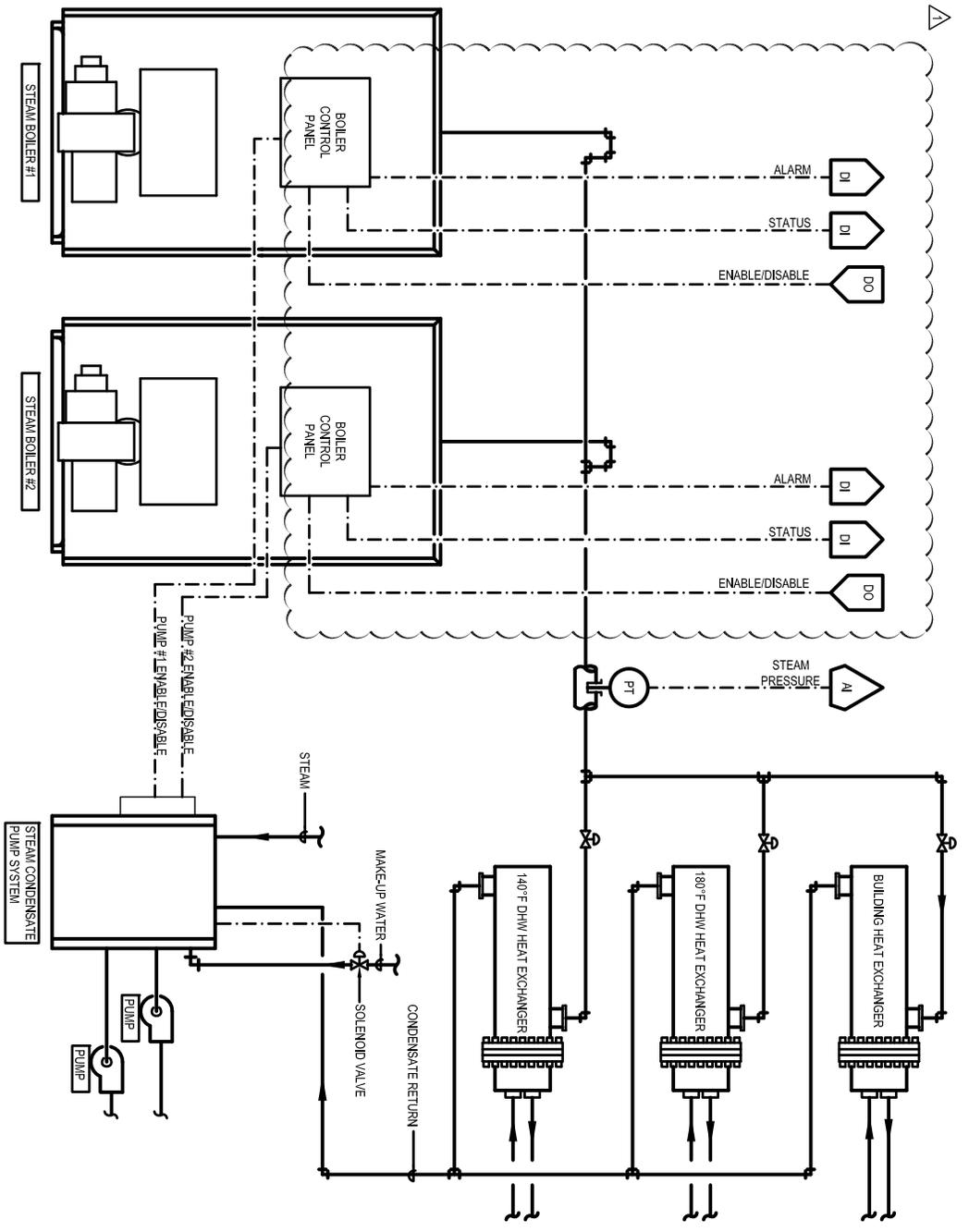
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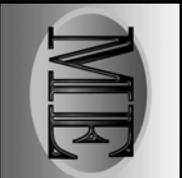
DATE  
1/3/13

REF. SHEET  
M3.2

SCALE  
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**STEAM BOILER CONTROL SYSTEM SCHEMATIC**  
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REF. SHEET  
 M3.3

SHEET NO.

**M3.3 R1**

