

## NOTES:

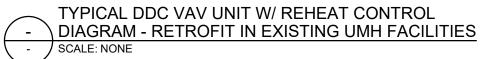
- The Mechanical Systems Control Contractor (MSCC) shall be responsible for the selection of, providing & installing all DDC controllers & control devices to accomplish the sequence of operation specified herein. All products, manufacturers & installation requirements shall conform to Masterspec 230905 - "Mechanical Systems Controls".
- The MSCC shall provide & install all DDC & related wiring, conduit & j-hook hanging systems. See Masterspec 230905 - "Mechanical Systems Controls" for raceway/conduit, cabling and labeling requirements.
- MSCC shall integrate unit controls back to the UMH unified front end (i.e. Desigo) per standards outlined in Masterspec 230905 -"Mechanical Systems Controls"
- 4. The Systems Integrator (SI) shall be responsible for the integration of all DDC devices and points, point instantiation and the creation of all graphics on the UMH Desigo front-end. See Masterspec 230924 - "Systems Integration"

## **SEQUENCE OF OPERATION:**

- A. On a call for cooling, the thermostat signals for the heating control valve to modulate toward the closed position. On a further call for cooling, the thermostat signals for the volume damper to modulate from its minimum setting to its maximum setting.
- B. On a call for heating, the thermostat signals the volume damper to modulate towards its minimum position. On a further call for heating, the thermostat signals the heating coil valve to modulate toward the full open position.

## Note to Editor: Delete the following paragraph and associated occupancy sensor in above diagram if occupancy sensors are not used:

C. When VAV box senses that the space is unoccupied, minimum airflow reduces to 0 CFM and the VAV box modulates to maintain temperature range of  $70^{\circ}$ F -  $74^{\circ}$ F.





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FILE: D230905H-7.dwg ISSUE: August 2015 olan TYPICAL DDC VAV UNIT W/ REHEAT COIL CONTROL DIAGRAM - RETROFIT IN EXISTING UMH FACILITIES