

BASE BID:



TMP ARCHITECTURE INC
1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS - MICHIGAN 48302

REGISTRATION SEAL

CONSULTANT



WISCONSIN OFFICE:
2310 CROSSROADS DRIVE
SUITE 5200
MADISON, WI 53718

www.mckinstry.com

PROJECT TITLE

West Maple
Elementary French
School Remodeling

Birmingham Public Schools
Bloomfield Hills, Michigan

DRAWING TITLE

Temperature
Controls

ISSUE DATES

Table with columns for DATE and ISSUED FOR, listing various issue dates and descriptions.

Table with columns for DRAWN, CHECKED, and APPROVED, listing initials for ME and EC.

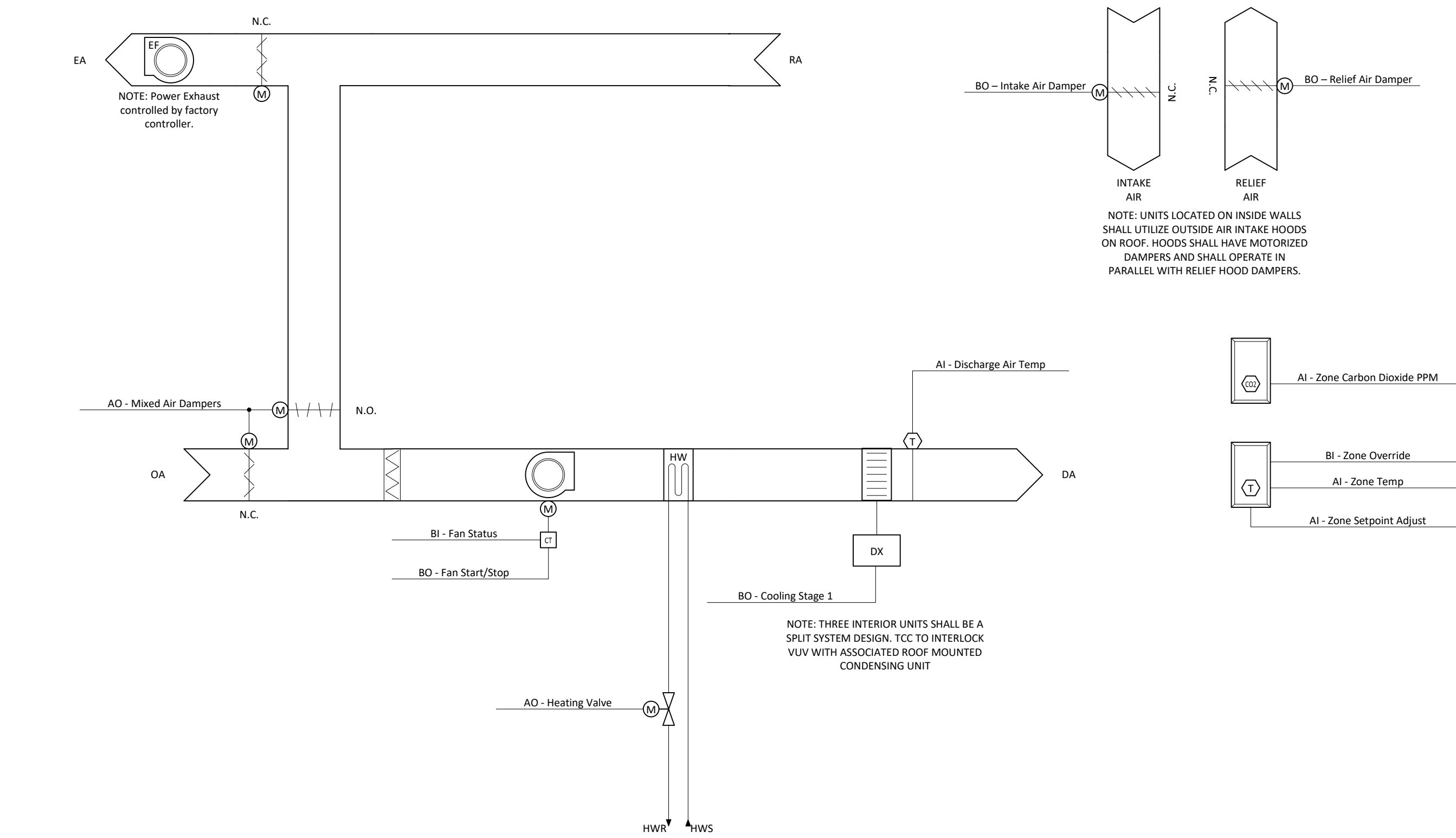
PROJECT NO.

15104A

DRAWING NO.

M7.1

VERTICAL UNIT VENTS
(Typical of 8)



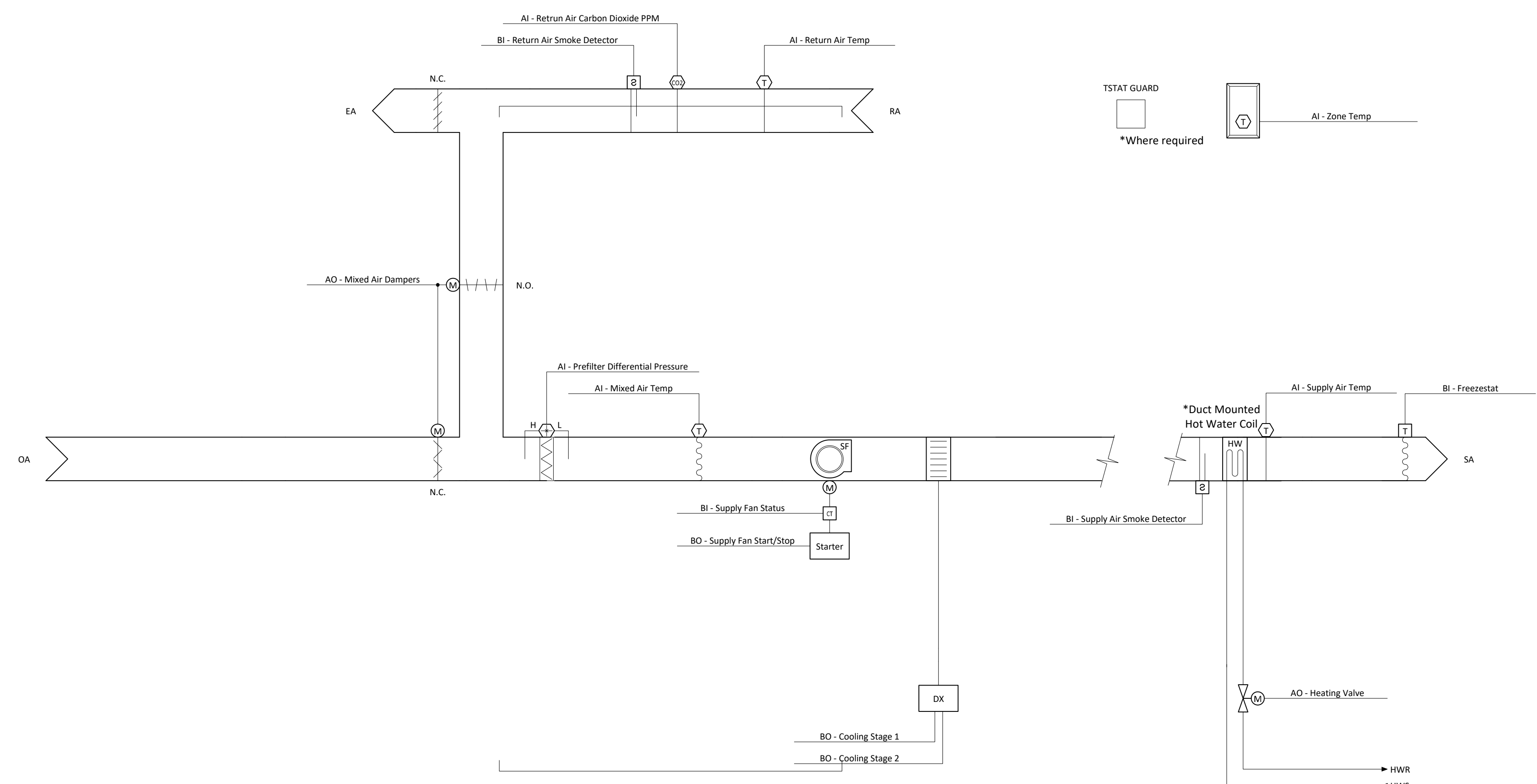
Unit Ventilator (typical of 8)
General:
The vertical unit vents shall be provided with factory mounted controls and shall perform the operational sequence.

Minimum Outside Air Ventilation - Carbon Dioxide (CO2) Control:
When in the occupied mode, the controller shall measure the zone CO2 levels and open the outside air dampers on rising CO2 concentrations, overriding normal damper operation as CO2 concentrations rise from 750ppm to 800ppm (adj.) and above.

Hardware Points and Software Points table with columns for Point Name, AI, AO, BI, BO, AV, BV, Loop, Sched, Trend, Alarm, and Show On Graphic.

- Vertical Unit Vents (typical of 8)
• WESVUV-1 CLASSROOM D115/D113
• WESVUV-2 CLASSROOM D119/D117

ROOFTOP UNIT
(Typical of 1)



RTU (typical of 1)
Run Conditions - Scheduled:
The unit shall run according to a user definable time schedule in the following modes:
• Occupied Mode: The unit shall maintain
• A 74°F (adj.) cooling setpoint
• A 70°F (adj.) heating setpoint.

Minimum Outside Air Ventilation - Carbon Dioxide (CO2) Control:
When in the occupied mode, the controller shall measure the return air CO2 levels and modulate the outside air dampers open on rising CO2 concentrations, overriding normal damper operation to maintain a CO2 setpoint of 750 ppm (adj.).

Freeze Protection
The unit shall shut down and generate an alarm upon receiving a freestat status.
Return Air Smoke Detection:
The unit shall shut down and generate an alarm upon receiving a return air smoke detector status.
Supply Air Smoke Detection:
The unit shall shut down and generate an alarm upon receiving a supply air smoke detector status.
Cooling Stages:
The controller shall measure the zone temperature and stage the cooling to maintain its cooling setpoint.

Hardware Points and Software Points table for the rooftop unit with columns for Point Name, AI, AO, BI, BO, AV, BV, Loop, Sched, Trend, Alarm, and Show On Graphic.

Single Zone RTU's (typical of 1)
Unit name:
• WESRTU-1 - OFFICE D135,D138

Minimum Outside Air Ventilation - Carbon Dioxide (CO2) Control:
When in the occupied mode, the controller shall measure the return air CO2 levels and modulate the outside air dampers open on rising CO2 concentrations, overriding normal damper operation to maintain a CO2 setpoint of 750 ppm (adj.).