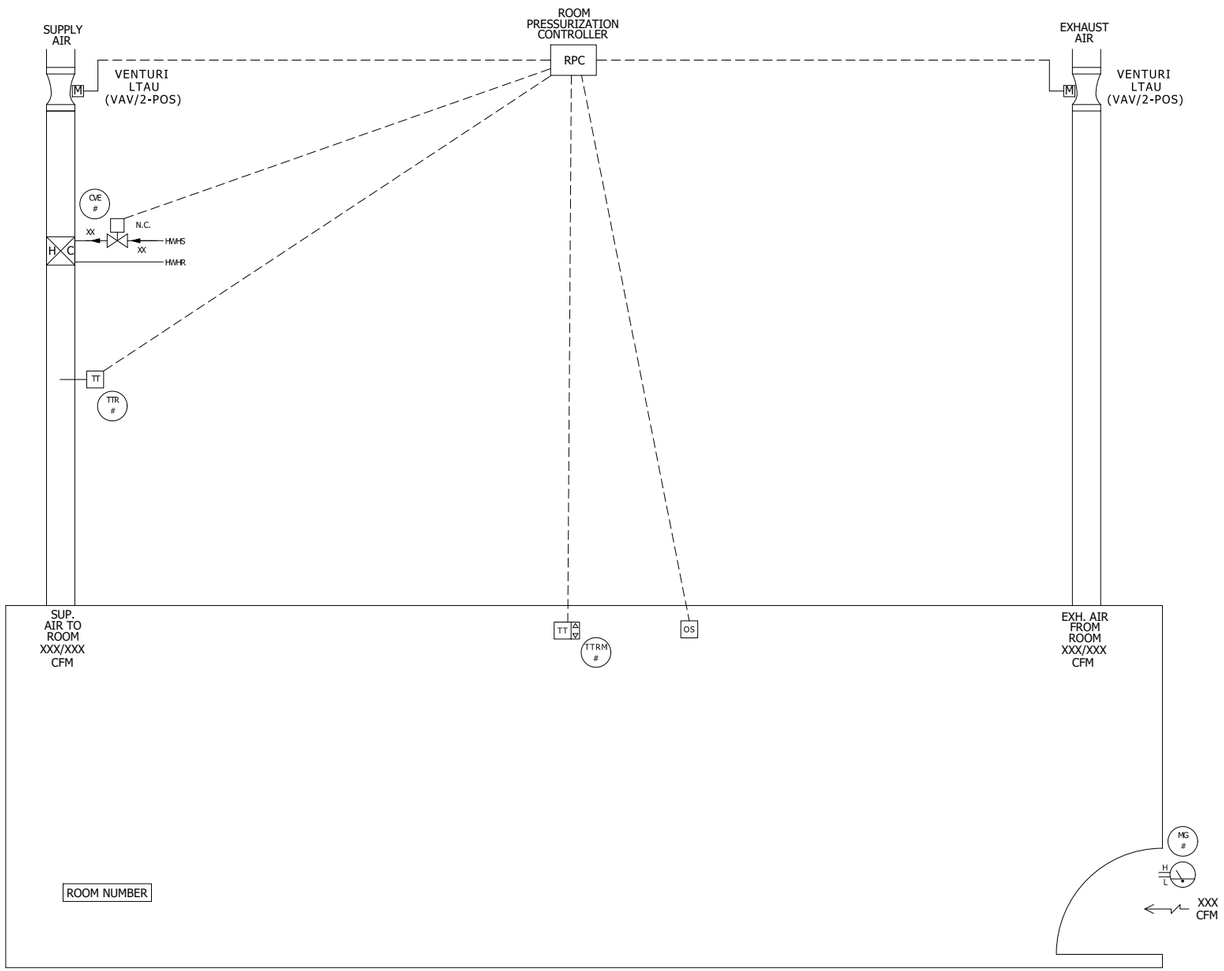

ROOM NO.	TEMP. SETPOINT	HUMIDITY SETPOINT	ROOM PRES.	CFM OFFSET
XXXX	72°F	40% R.H.	NEG.	150

VIVARIUM NON-HOLDING ROOM CONTROL

SEQUENCE OF OPERATION

VAV CONTROL

THE OCCUPANCY SENSOR INDEXES THE ROOM BETWEEN OCCUPIED AND UNOCCUPIED MODES OF OPERATION. THE THERMOSTAT OVERRIDE BUTTON CAUSES THE SYSTEM TO REVERT TO THE OCCUPIED MODE OF OPERATION FOR A PERIOD OF 2 HOURS.

OCCUPIED MODE - THE BAS MODULATES THE REHEAT COIL VALVE AND SUPPLY AIR FLOW BETWEEN ITS MINIMUM AND MAXIMUM SETTINGS IN SEQUENCE TO MAINTAIN THE SPACE TEMP AT SETPOINT. THE EXHAUST AIR FLOW TRACKS THE SUPPLY AIR FLOW TO MAINTAIN ROOM PRESSURE.

UNOCCUPIED MODE - THE BAS MODULATES THE REHEAT COIL VALVE TO MAINTAIN THE SPACE TEMP AT SETPOINT AND SETS THE SUPPLY AIR FLOW TO ITS MINIMUM SETTING. THE EXHAUST AIR FLOW TRACKS THE SUPPLY AIR FLOW TO MAINTAIN ROOM PRESSURE.

2-POSITION CONTROL

THE OCCUPANCY SENSOR INDEXES THE ROOM BETWEEN OCCUPIED AND UNOCCUPIED MODES OF OPERATION. THE THERMOSTAT OVERRIDE BUTTON CAUSES THE SYSTEM TO REVERT TO THE OCCUPIED MODE OF OPERATION FOR A PERIOD OF 2 HOURS.

OCCUPIED MODE - THE BAS MODULATES THE REHEAT COIL VALVE TO MAINTAIN THE SPACE TEMP AT SETPOINT AND SETS THE SUPPLY AIR FLOW TO ITS MAXIMUM SETTING. THE EXHAUST AIR FLOW TRACKS THE SUPPLY AIR FLOW TO MAINTAIN ROOM PRESSURE.

UNOCCUPIED MODE - THE BAS MODULATES THE REHEAT COIL VALVE TO MAINTAIN THE SPACE TEMP AT SETPOINT AND SETS THE SUPPLY AIR FLOW TO ITS MINIMUM SETTING. THE EXHAUST AIR FLOW TRACKS THE SUPPLY AIR FLOW TO MAINTAIN ROOM PRESSURE.

LIGHTING IS CONTROLLED VIA LOCAL TOGGLE SWITCHES (NOT SHOWN). BAS DOES NOT HAVE CONTROL OF LIGHTING

MAGNEHELIC GAUGE (MG-1) LOCATED OUTSIDE THE ROOM AND ABOUT THE DOOR INDICATES ROOM PRESSURIZATION.

$DATE$ $TIME$ $USERNAME$ $FILE$

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XXXXXX-XXXX
WORK REQUEST NO.

Abbreviated Documents

ALL WORK SHALL CONFORM WITH APPLICABLE U OF M MASTER SPECIFICATIONS (www.umbec.umich.edu). U OF M MASTER SPECIFICATIONS FORM A PART OF THESE PROJECT DOCUMENTS BY REFERENCE.

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P000XXXXX U OF M PROJECT NO.
100XXXX BLDG NO.

SHEET TITLE

Vivarium Non-Holding Control Drawing

SHEET NO.

SHEET NO. OF ___

FOR REVIEW ONLY - NOT FOR CONSTRUCTION - FOR REVIEW ONLY - NOT FOR CONSTRUCTION - FOR REVIEW ONLY - NOT FOR CONSTRUCTION