



## PITTSFIELD DISTRICT COURT HVAC SYSTEM EVALUATION SUMMARY

Visited October 14, 2020. While on site, inspected the air handling equipment located in the mechanical rooms and toured the facility to determine if the spaces generally matched usages noted on the architectural plans. Pittsfield District Court was constructed in 1927 and is approximately 20,500 square feet in size. One Trane indoor air handling unit (HVAC-1) located in the basement serves the basement, and one Carrier rooftop air handling unit (RTU-1) serves Courtroom 206. HVAC-1 contains DX (refrigerant) cooling and a steam heating coil. RTU-1 contains DX cooling and electric heat. Both units contain one 2", MERV 10 filter. RTU-1 is in excellent condition.

### 1.0 Airflow Rate per Person (Reduced Occupancy)

Courtroom	Total People	Total Air		Outdoor Air	
		Supply Airflow (CFM)	Airflow Rate (CFM/Person)	Outside Airflow (CFM)	Airflow Rate (CFM/Person)
Courtroom 106	17	0	0	0	0
Courtroom 117	13	0	0	0	0
Courtroom 206	20	2,800	140	300	15

### 2.0 Recommendations

Section	Recommendation/Finding	Action
<b>2.1</b>	<b>Filtration Efficiency</b>	
RF-1	Replace filters with MERV 13	Complete – Nov 2021
RF-3	Install a differential pressure sensor (switch) across the filter banks	Complete
RF-3b	Display pressure sensor and connect to BMS	Complete
<b>2.2</b>	<b>Testing and Balancing</b>	
RTB-1	Test and rebalance air handling unit supply air and minimum outside air flow rates	Complete
<b>2.3</b>	<b>Equipment Maintenance and Upgrades</b>	
RE-1	Test existing air handling system dampers and actuators for proper operation	Complete
<b>2.4</b>	<b>Control System</b>	
RC-1	Implement a pre and post-occupancy flush sequence	Complete
<b>2.5</b>	<b>Additional Filtration and Air Cleaning</b>	
RFC-1	Install portable HEPA filters.	Complete – 8 units
<b>2.6</b>	<b>Humidity Control</b>	
	No actionable items listed – continuous monitoring for seasonal changes	Ongoing
<b>2.7</b>	<b>Other Recommendations</b>	
2.7.1	Mechanical Ventilation Feasibility Study	Deferred for Study / Design