

FACILITY REPAIR RECOMMENDATION

Title: Olympus Classroom HVAC Unit Replacement Proposal No.M-4

Description: Replace the existing hydronic baseboard in the classrooms with vertical fan coil units with direct outside air intake and hot water heating coils.

Recommendation: Demolish the existing hydronic baseboard in the classrooms and replace them with vertical fan coil units incorporating mechanical ventilation instead of operable windows.

Discussion: The classrooms are currently heated with parameter fin tube hydronic heating units. Ventilation is provided by three or four operable windows in the exterior walls. The existing operable windows do not meet the minimum requirements for natural ventilation according to the 2012 International Mechanical Code. The classrooms regularly suffer from inadequate ventilation air, resulting in higher than acceptable carbon dioxide rates and negatively affecting indoor air quality. Installing vertical fan coil units which utilize new outside air intakes for mechanical control the ventilation will improve indoor air quality and temperature control.

Cost Estimate:

Item	Unit / \$	Option 1		Option 2	
		Quantity	Total	Quantity	Total
New vertical fan coil units and duct systems	LS \$18,000.00	5	\$90,000		
			\$0		
Cut & Patching	LS/35%		\$31,500		
Subtotal			\$121,500		
General Conditions	LS/25%		\$30,375		
Estimated MACC			\$151,875		
Permitting / Design / Taxes / Etc.	LS/45%		NA		
Totals:			\$151,875		