

Spackenkill UFSD – 8/28/2017 BOE Meeting – Mechanical Work Scope for Hagan ES & Nassau ES

School	Scope item	Floor Area	Estimated System Capacity	System Description
Hagan	Office Ventilation	~1,500sq.ft.	2,000cfm	Either a heat recovery VRF system with a small roof mounted energy recovery ventilator or a new DX (modulating) cooled RTU with VAV reheat. Provide new finned-tube radiation for both of the proposed systems.
	Cafetorium/Stage Ventilation	~3,500sq.ft.	6,500cfm	Remove existing air handler and associated ductwork. Provide new AHU and ductwork serving the Cafetorium and Stage. Energy recovery and demand controlled ventilation strategies to be investigated.
	Gymnasium Ventilation	~3,750sq.ft.	7,500cfm	Remove existing air handler and associated ductwork. Provide new AHU and ductwork serving the Gymnasium. Energy recovery and demand controlled ventilation strategies to be investigated.
	Miscellaneous small spaces with no ventilation			Estimated 5 additional small spaces (100-400sq.ft.) requiring ventilation. New systems need to be investigated, but new FCU's or small VRF heat pump systems can be used for budgeting.
	New domestic hot water heater			Existing unit is Bock Model 241E. 100gal storage. 252GPH recovery. Last replaced in 1997.
Nassau	Office Ventilation	~1,435sq.ft.	1,800cfm	Either a heat recovery VRF system with a small roof mounted energy recovery ventilator or a new DX (modulating) cooled RTU with VAV reheat. Provide new finned-tube radiation for both of the proposed systems.
	Cafetorium/Stage Ventilation	~3,200sq.ft.	6,000cfm	Remove existing air handler and associated ductwork. Provide new AHU or RTU and ductwork serving the Cafetorium and Stage. Energy recovery and demand controlled ventilation strategies to be investigated.
	Gymnasium Ventilation	~3,750sq.ft.	7,500cfm	Remove existing air handlers and associated ductwork. Provide new rooftop unit and ductwork serving the Gymnasium. Energy recovery and demand controlled ventilation strategies to be investigated.