

Play Fields

Gathering Plaza

Student Dining

Building Systems

LEED = v4 for Schools

Heating = High efficiency natural gas

Central Cooling = High efficiency variable speed air cooled chiller

Building Systems

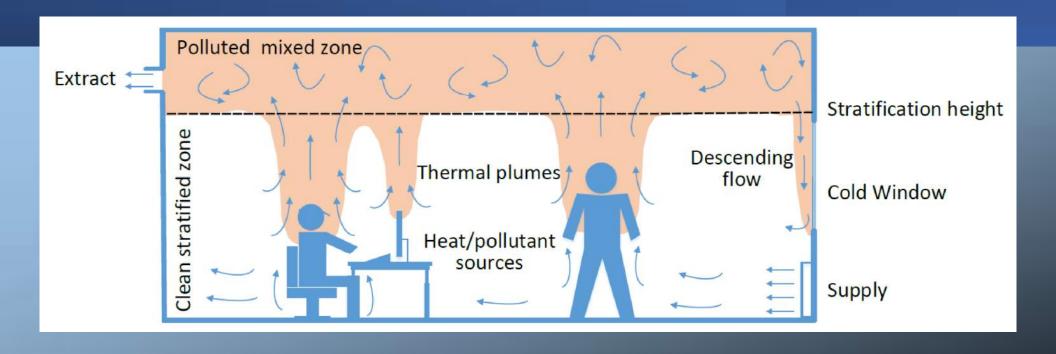
Classrooms, Administration, & Offices

- Heating
- Air-conditioning,
- Ventilation

Full air conditioning dehumidification displacement ventilation system with radiant ceiling heating and cooling panels

Gym & Cafeteria

Full air conditioning dehumidification and ventilation system fed via roof top units (RTU)



LIFE CYCLE COST ANALYSIS

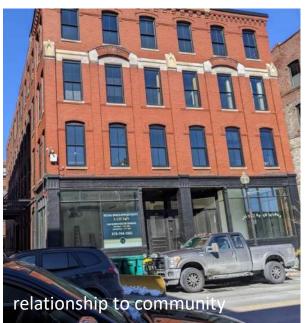
Displacement Air – Gas Fuel

Description	Option 1 Partial AC		Option 2 Full AC		Option 3 All Electric		Option 4 All Electric Partial AC	
Discount Rate (i)		2.5%		2.5%		2.5%		2.5%
Expected Service Life (n)		20		20		20		20
Annual Maintenance Costs (\$)	\$	19,944		24,931		34,155		22,501
Annual Maintenance Costs (\$/SF)		\$0.22		\$0.28		\$0.38		\$0.25
Initial Cost (\$)	\$	6,013,721	9	6,214,375	\$	6,421,996	\$	6,045,596
Potential Additional Utility Incentive ¹	\$	37,663	\$	16,268	\$	21,474	\$	-
Net Installed Cost	\$	5,976,059	\$	6,198,108	\$	6,400,522	\$	6,045,596
Energy Cost (\$)	\$	93,077	\$	105,221	\$	99,528	\$	122,725
Annual Operating Cost (\$)	\$	113,022	\$	130,151.22	\$	133,682	\$	145,225
TEAC	\$	113,022	9	130,151	\$	133,682	\$	145,225
		0.064		0.064		0.064		0.064
	\$	383,347	\$	397,591	\$	410,575	\$	387,808
	\$	496,369	99	527,742	\$	544,257	\$	533,033
TEAC (Cost/SF)	\$	5.52	\$	5.86	\$	6.05	\$	5.92

NOTES:

 Utility incentive contribution is an estimate only. Projects must engage utilities as early in the design process as possible to maximize available incentives.

















View from Washington St.



View from Van Drop-Off Drive



View from Van Drop-Off Zone



Approach to Entrance



View from Field





View from Gathering / Recess Area



Aerial View from South West



View from Bus Drop-Off on South



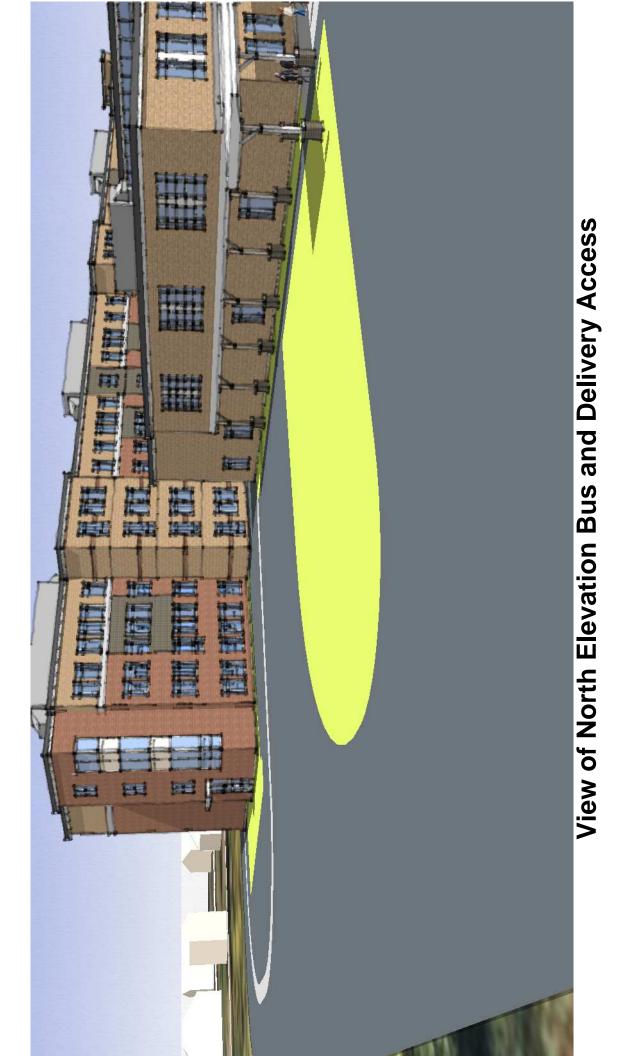
View from Bus Pick-Up on East Drive



View from Bus Pick- Up Zone



View of East Elevation





Ariel View from West



View from North West



View of West Elevation