

Mosier Elementary School

South Hadley, MA

Schematic Design

August 26, 2026



Schematic Design Phase

- Prepare Schematic Design Documents
 - Updated Plans / Narratives / Reports
 - DESE Submission
- SD Estimate Submission
 - Submit Documents to Estimators on 9/4/26
 - Estimates Due 9/30/26
 - Estimate Reconciliation on 10/2/26
- Upload Schematic Design Documents 10/07/26
- SD Submission to MSBA on 10/22/26



Traffic Report Overview

- Overall Traffic Report Findings
 - Afternoon Traffic – No Significant Change
 - Morning Traffic – Additional 20-25 Second Delay
 - Current Site Plan/Curb Cuts – Help reduce Mosier Street Conflicts
 - Newton Street Traffic Minimally Effected
- Recommendations
 - Review and Adjust Traffic Signal Timing
 - Add Possible Turning Lanes at end of Mosier Street
 - Possible Adjustment in School(s) Drop-off & Pick-up Times
- Trip Projections are Conservative
- Does not Reflect Parents Dropping Children off in Separate Grades



Sustainability Reimbursement

- Project Advisory 100 Pathways
- All Electric Building
 - No fossil Fuel Service to Building
 - All Building and Kitchen Equipment shall be Electric
 - Equipment Costs / Operational Cost
 - Solar Generation Optional
- Mixed Fuel Building
 - Fossil Fuel Allowed
 - Requires Solar Generation (1.5w/s.f. of Building Area)
 - Pre-Wire / Electrical Service for Full Electrification
- Zero Energy Building



Gas Fired Boiler – Air Cooled Chiller

High efficiency gas fired boilers located in mechanical room produce hot water.

Air cooled chiller located on the roof produces chilled water.

Pros

- System is energy efficient
- Lowest First Cost not including PV

Cons

- Fossil Fuel
- Will require PV system to be installed



Central Air Source Heat Pump and Back up Electric Boiler

Central Heat Pump located on the roof produces hot or chilled water. System utilizes energy in the ambient air.

Electric boiler can be provided for back up and supplemental heat the during winter.

Pros

- System is very energy efficient
- All electric system
- Heat pump is modular to provide redundancy
- Electric boiler back up only.
- Lowest LCCA cost for all electrical option

Cons

- High operating costs for electric boiler when in use
- Roof space needed for heat pumps – may reduce available space for PV panels

Central ASHP recently installed at Newton Library



Air Source Heat Pump, Air Cooled Chiller and Electric Boiler

Multiple air source heat pumps located on the roof to provide ventilation air to the building.

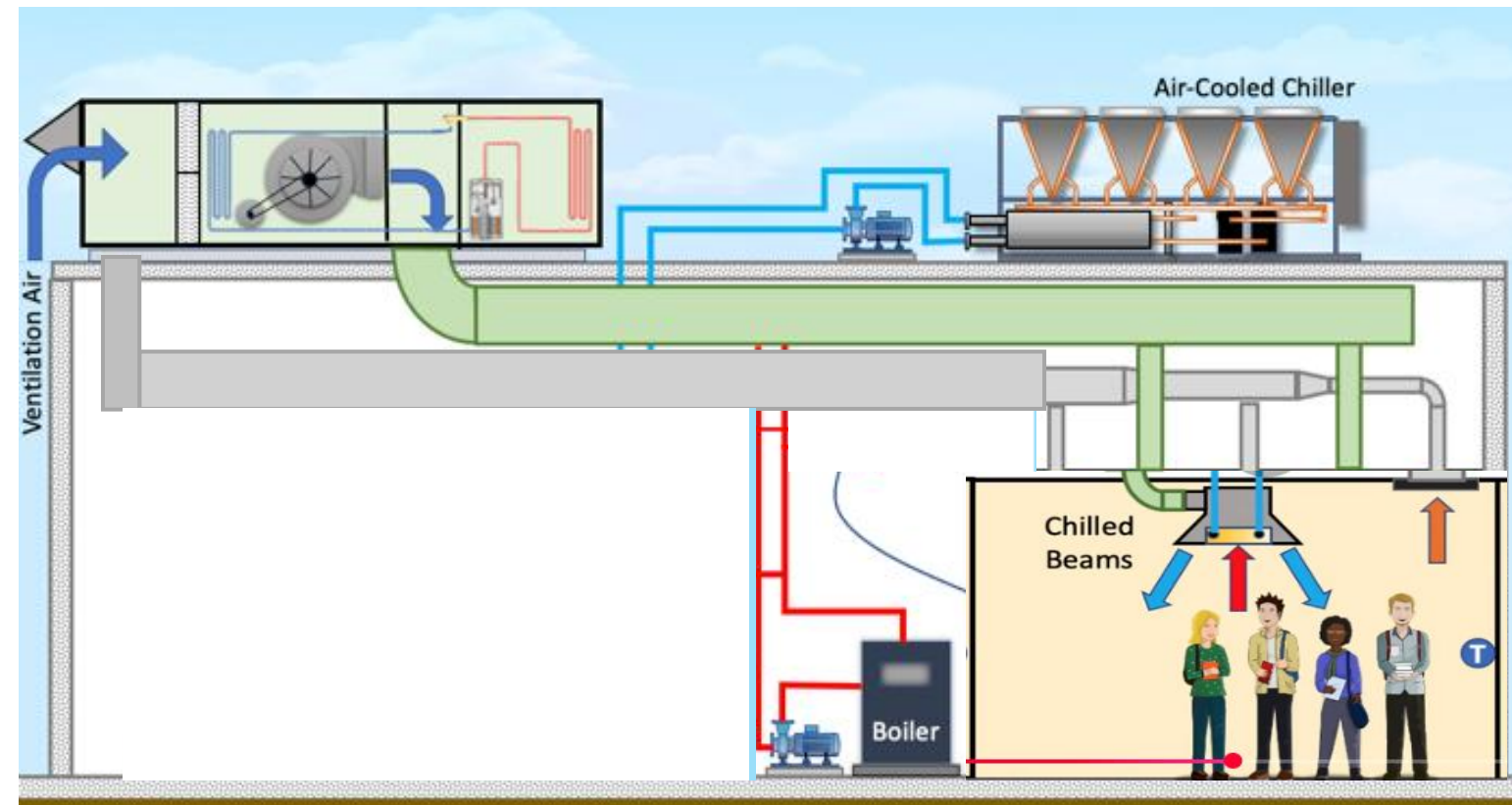
Electric boiler provides hot water, and air-cooled chiller provides chilled water.

Pros

- All Electric System
- Heat pump is modular to provide redundancy

Cons

- High operating costs due to electric boiler
- Multiple different systems to maintain.



Life Cycle Cost Analysis (LCCA)

System	Type	HVAC First Costs	Annual Energy Cost	Annual Maintenance Cost	25-Year LCCA	Remarks
Gas Boiler & Chiller	Mixed Fuel	\$13,404,000	\$195,485	\$82,500	\$19,731,331	PV Required (Minimum Included), Additional MSBA 3% Reimbursement
Central ASHP	All Electric	\$14,881,000	\$73,600	\$101,805	\$20,603,953	No PV Included, Additional MSBA 3% Reimbursement
ASHP, Boiler & Chiller	All Electric	\$14,200,000	\$181,415	\$93,390	\$24,554,843	No PV Included, Additional MSBA 3% Reimbursement

1. The LCCA is based on a 113,730 sf new school and a 25-year duration. Year 1 energy costs are based on a blended utility cost rate of \$0.17/kWh, \$1.66/therm.
2. The LCCA includes escalation rates for the cost of electricity, natural gas, and maintenance.
3. LCCA does not include the financial benefit/utility credit associated with solar PV generation.

Finance Subcommittee Update

BUDGET, COMMITTED, SPENT (BCS) REPORT

TOTAL: \$2,069,465 \$1,357,587 66% \$994,820 73%

Cost Code	Cost Code Type	Cost Code Category	Budget	Committed / Approved	% Committed	Spent	% Spent
[0001-0000 - OPM - Feasibility Study]	Owner Cost	Base_Contract	\$350,000.00	\$335,840.00	96%	\$195,330.00	58%
[0002-0000 - A&E - Feasibility Study]	Owner Cost	Base_Contract	\$800,000.00	\$800,000.00	100%	\$609,962.30	76%
[0003-0000 - Environmental & Site]	Owner Cost	Base_Contract	\$400,000.00	\$219,747.00	55%	\$188,193.75	86%
[0004-0000 - Other]	Owner Cost	Base_Contract	\$519,465.00	\$2,000.00	0%	\$1,334.37	67%

- Submitted to MSBA: \$819,422
- MSBA Audited: \$819,422
- MSBA Pending Audit: \$0.00
- Audit Complete Pending MSBA Payment: \$20,131
- Ineligible Costs to Date: \$739
- Reimbursement to Date: \$489,672
- Effective Reimbursement Percentage: 61.26 (Reimbursement Rate 61.32%)
- Consultant Substitution - Crowley Cottrell, LLC for IMEG Warner Larson – Landscape Design

Communications Subcommittee Update

Upcoming Community Engagement / Meetings

- Communications Subcommittee Meeting on 09/03/26, 9:00 AM
- Invoice Review Subcommittee Meeting on 09/15/26 (time TBD)
- SBC – Next Meeting on 09/09/26, 5:30 pm (back to in-person)
- SBC – Next Meeting on 09/23/26, 5:30 pm
- SBC – Next Meeting on 10/07/26, 5:15 pm
- SBC – Next Meeting on 10/14/26, 5:30 pm

Tabling Opportunities at Community Events (Volunteers Needed):

- End of Summer and Fall 2026 Community Outreach Events
- Cruise Nights and Friday Concerts at Bandshell
- 08/28, 09/04, 09/11 and 09/12
- **Back to School Open Houses:**
 - **SHHS on 09/17/26, 6:00 – 8:00 pm**
 - **SKALA on 09/24/26, 5:30 – 7:00 pm**
 - **MESMS on 09/29/26, 6:00 – 8:00 pm**
 - **MOSIER on 09/29/26, 4:30 – 6:00 pm**

Stay tuned for more information events at Butter Brook:

[Buttery Brook Park | South Hadley, MA - Official Website](#)

Update on ongoing outreach:

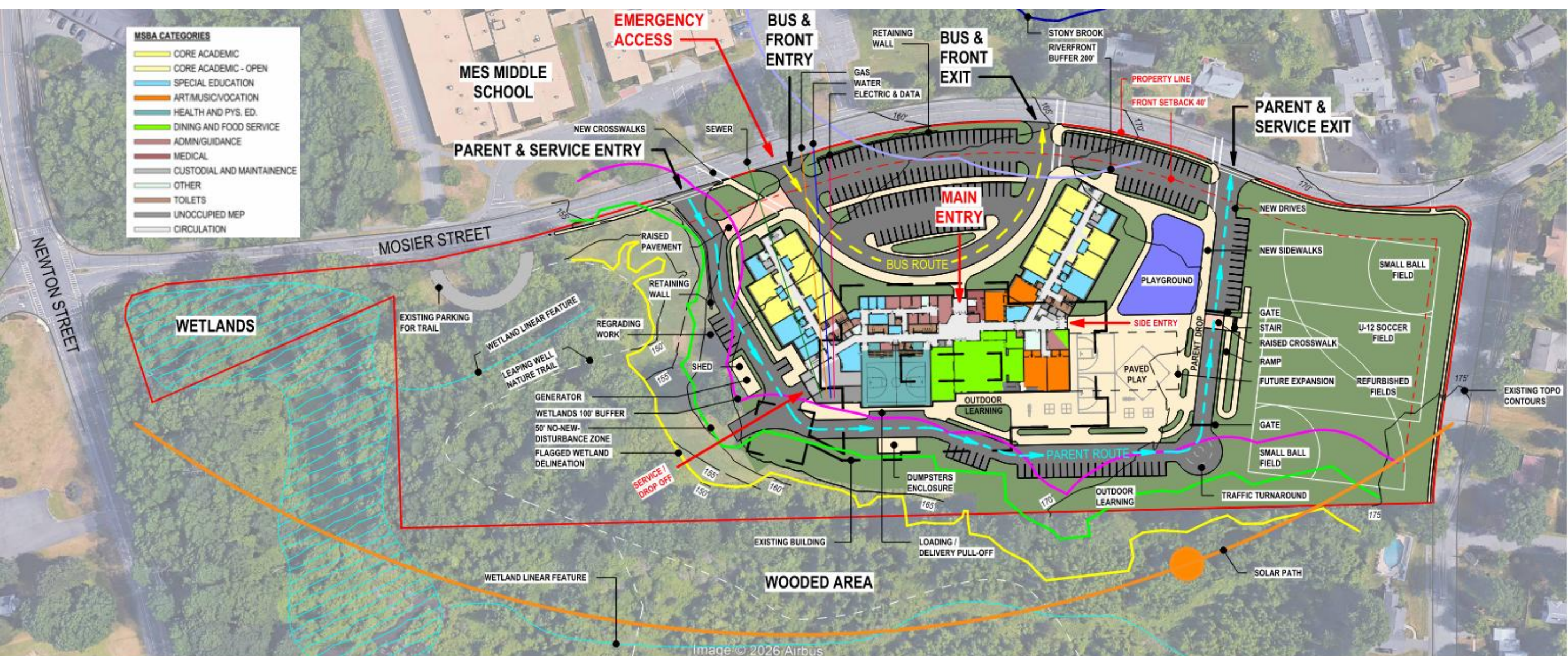
- Project Update (Lunch & Learn or Coffee & Conversation) at Council on Aging, project team *to be scheduled (target is October & November, during Medicare AEP months)*
 - Lisa Wong to meet with seniors at SH COA on 09/08 and 09/26 and will bring one pagers with her for distribution.
- Three power points created. Topics include: Educational Plan, Existing Conditions and Why Now. - to be posted on SH Elementary School Project Website.
- One pager flyer created. Includes rendering and 3 talking points: Educational Vision, Community Benefits and MSBA Partnership
- MVG Architects updated poster boards to reflect Preferred Design #8, Mosier –on-Mosier
- Tri-Fold pamphlets updated. Includes both the Preferred Design #8, Mosier – on – Mosier and rendering.
- Project website continues to be updated with all meeting materials / communications
- Social Media plan includes routine Facebook posts, Town News Flash (Press Releases) and Superintendent's Newsletter updates, Flyers/Pamphlets available at Town Offices, Library & Senior Center
- Coordinating with South Hadley Community Television
 - Mosier Tour Video by Dan Pease and narrated by former SHPS students

Thank You

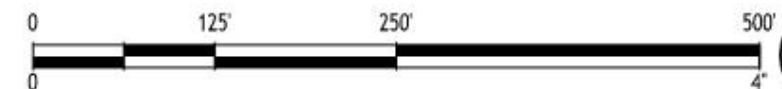


MVG
MOUNT VERNON GROUP
ARCHITECTS





BUS QUEUE = APPROX. 390', 8 FULL SIZE
 PARENT QUEUE = APPROX. 1100', 50 VEHICLES
 PARKING = APPROX. 170 SPACES



Overall Site Plan

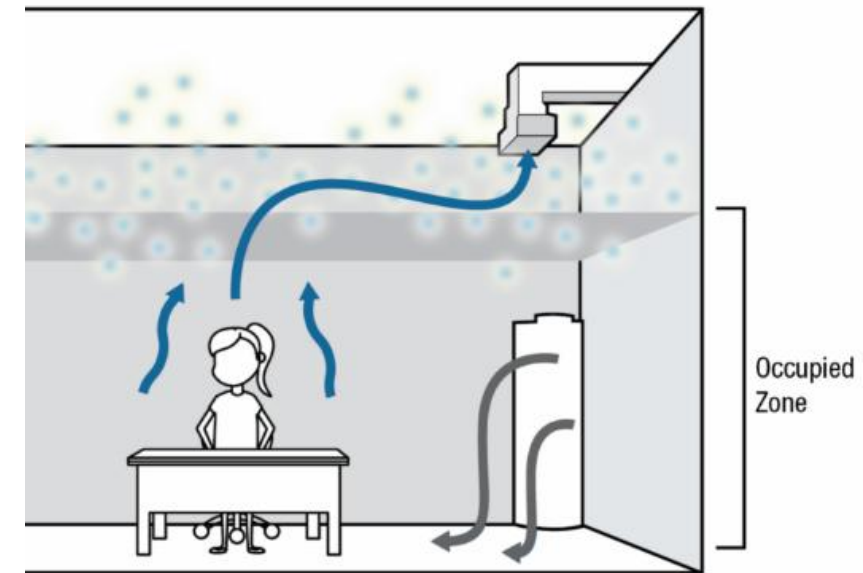
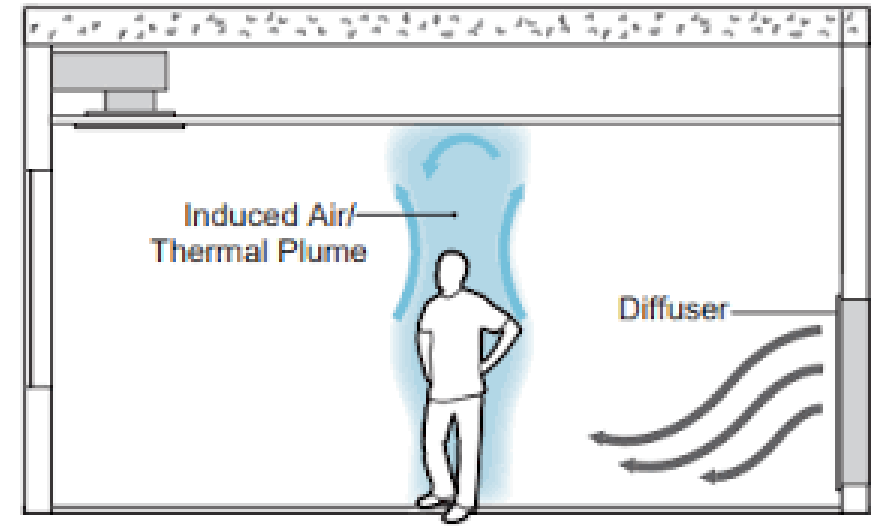
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MVG

CLASSROOM HVAC OPTIONS

Displacement Ventilation

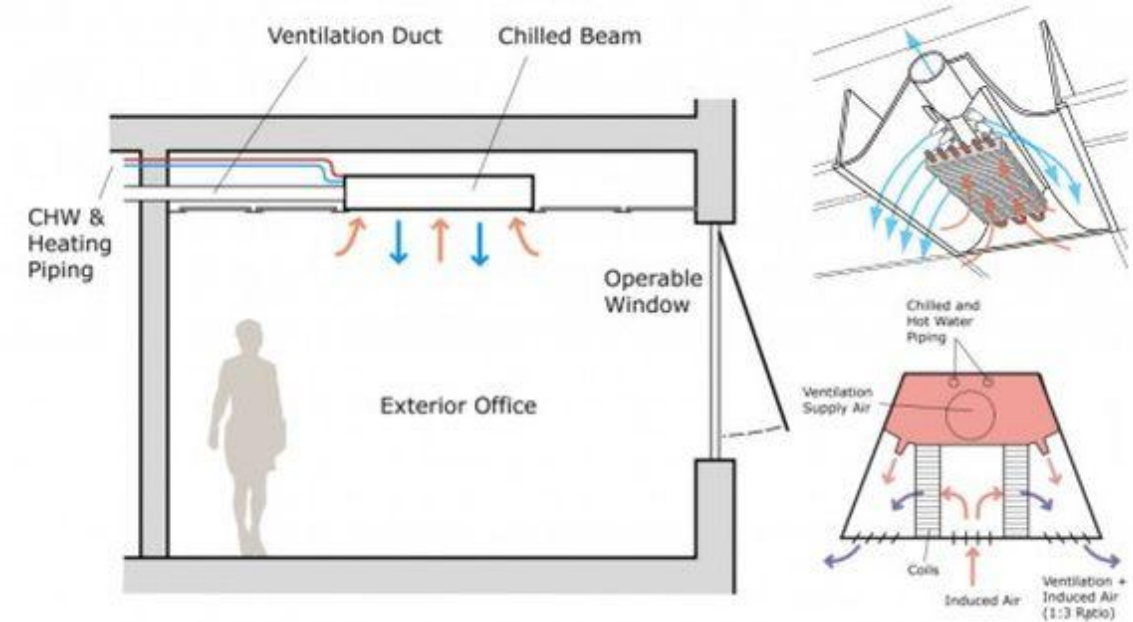
- Multiple roof mounted air handling units
- Gas fired boiler provides hot water for heating
- Supplies 100% fresh outdoor air to the classroom
- Tempered and dehumidified air enters the room low, rises and is exhausted at the ceiling
- Individual heating thermostat control for each room



CLASSROOM HVAC OPTIONS

Chilled Beams

- Multiple roof mounted air handling units
- Gas fire boiler and air-cooled chiller provide hot and chilled water
- Supplies 100% fresh outdoor air to the classroom
- Chilled/hot water coils at the ceiling that can provide full heating and cooling
- Individual heating and cooling thermostat control for each room



Full Air-Conditioning

SKANSKA

MVG

System (by Ranking)	Installation Costs	PROS	CONS
Gas Fired Boiler, Air Cooled Chiller, Chilled Beams	Range Approx. \$100 - \$105 sq/ft	• Provides full cooling • Provides individual temperature control for each classroom.	• Higher initial and operating costs
Gas Fired Boiler and Displacement *Not full cooling in classrooms	Range Approx. \$65 - \$70sq/ft	• Lowest initial costs • Improved Indoor air quality	• Does not provide full cooling

