



Newton North High School Newton, MA

Budgeted at \$196 million, this 410,000 sf complex is the largest and most expensive new construction project in Newton's history. It is also the city's first LEED for Schools project. To meet design goals, The Green Engineer studied alternative energy sources and mechanical systems working closely with the Mayor's office and the Newton High Performance Building Coalition, a local advocacy group. The design improves indoor air quality by using operable



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windows wherever possible and includes a waste-water system that reuses over one million gallons of captured rainwater. The new Newton North boasts a 20% reduced-operating energy costs compared with a similarly-sized complex. For Newton North, The Green Engineer:

- Conducted an extensive life-cycle costing analysis of potential mechanical systems;
- Provided energy modeling services throughout the design phase;
- Helped the Client secure a grant from the Mass Technology Collaborative's Green Schools Initiative;
- Organized and coordinated the documents required for the LEED for Schools registration and certification.
- Followed new state criteria established by Mass Collaborative for High Performance Schools (MA-CHPS).

Owner: The City of Newton
Architect: The GUND Partnership/Dore & Whittier
MEP: R.G. Vanderweil
Contractor: Dimeo
LEED for Schools: Targeting Silver and MA-CHPS