

Minuteman Building Project Update Presented to

May 2018 Needham Town Meeting

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A REVOLUTION IN LEARNING

Two Items (Hardware & Software)

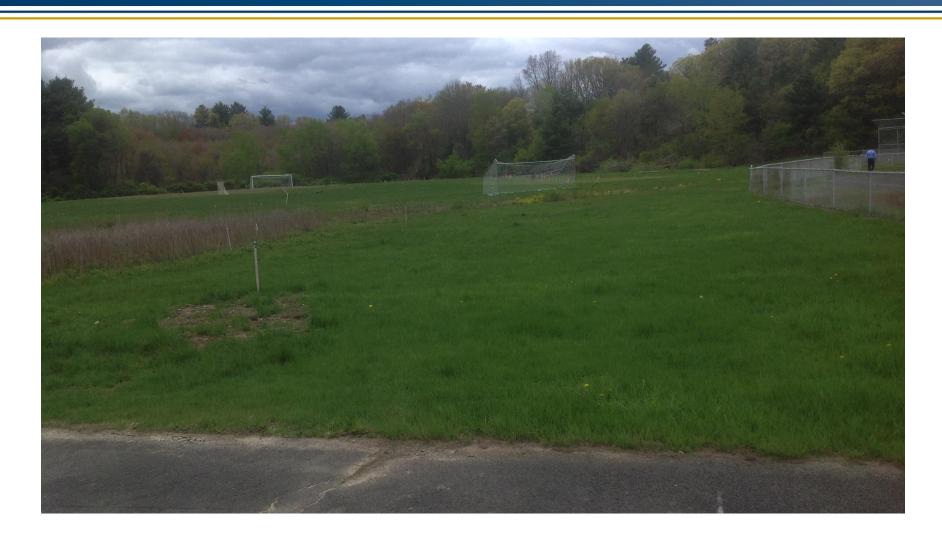
- The New Minuteman High School Building
- The Academy Educational Model

The Construction Timeframe

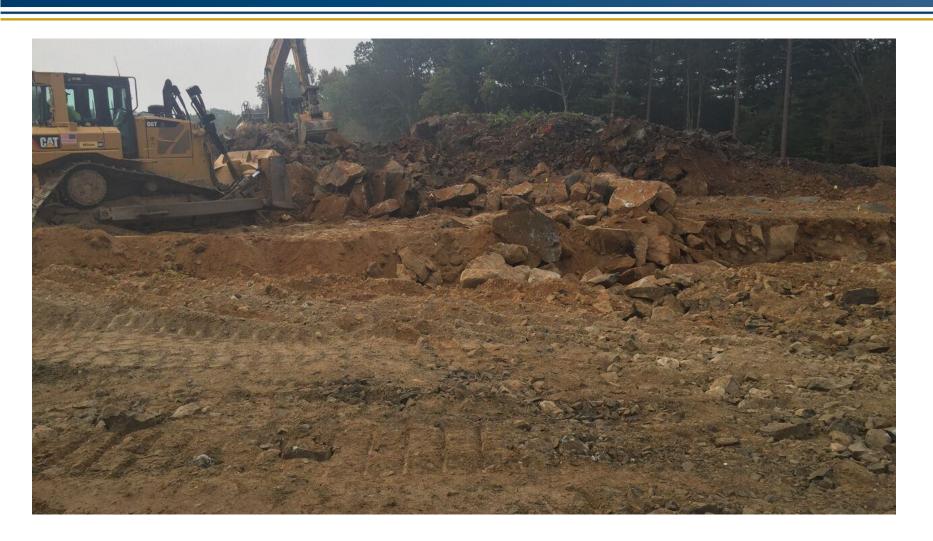
Original building completion date was summer 2020 but...

Building modifications to streamline construction and an interesting construction idea leads to an opportunity...

Just A Field



Getting Started



First Steel



Lots of Progress



Topping Off



Building Progress Update

No guarantees but...

- Project is currently On-Time & On-Budget
- Anticipated building completion: June 2019

A Different Job Market Emerging

A lot has changed since the 1970's...

Today's students need to be both better educated and more flexible in order to succeed in a job market whose requirements are rapidly evolving due to technology and other forces

Requirements For The "New" Workplace

- Stronger academics
- Better communication/presentation skills
- Ability to work with colleagues from multiple disciplines
- Ability to integrate academic skills with career skills
- Expertise in technology & automation (masters of technology, not servants of technology)
- Continuing education
- Career flexibility

Minuteman's Approach

The Academy Model

Academy Pathways Overview

Trad	es Academy Programs	
Trades	& Transportation Pathway	/:

Engineering Construction &

- Automotive Tech 47.0604
 - Carpentry 46.0201
 - Electrical 46.0302
- Plumbing & HVAC 46.0603/47.0201

Digital Arts & Design Pathway:

- Design & Visual Communications 50.040
- Multi-Media Engineering 09.0701
- Programming & Web Development 11.0201

Engineering & Production Pathway:

- Advanced Manufacturing & Metal Fabrication 48.0501/48.0599
- Programming & Web Development 11.0201
- Robotics Engineering Automation 15.0000/15.0403

Shared Services & Programs

Nursing & Wellness Services Library & Media Center Special Education

Common Planning Time Academic Programs

Chemistry Science Physics English Language Arts Mathematics Physical Education

Common Competencies

Health & Safety Entrepreneurship6/25/2015 Financial Literacy Humanities Art & Music Guidance Counseling Career Development Advanced Placement

Digital Literacy Career Guidance Work based Learning Internships & Coop

Reading Consultancy Student Portfolios Executive Purpose Project Based Learning

Life Sciences & Services Academy Programs

Health, Hospitality & Human Services Pathway:

- Culinary Arts & Hospitality 12.0500/ 52.0901
- Cosmetology & Barbering 12.0404/12.0402
 - · Early Education & Care 13.1210
 - Health Occupations 51.0000

Agriculture, Environmental & Life Sciences Pathway:

- Environmental Science 15.0507
 - Biotechnology 15.0401
- Horticulture & Landscaping Tech 1.0601

Making The Academy Model Work

- Floor plan of new building allows the physical proximity of the career education within the academies and between the academies and academics
- Rubicon Atlas software enables discovery of curricula connections throughout the school, enabling the development of "real world" integrated projects
- Technology: student technology, critical business technology, collaboration technology, specific career path technology expertise
- Hard work by staff to successfully take advantage of the above to create complex multi-disciplinary curriculum exposing the students to a realistic modern work environment

Two Building Projects

There are really two inter-dependent building projects being developed in parallel:

The "Hardware": The Physical Building

The "Software": The Academy Model

Both are needed to achieve...

The Goal

To provide an education that will enable district students to be successful today **and in the future** for whichever path they choose: career, college, military, or other