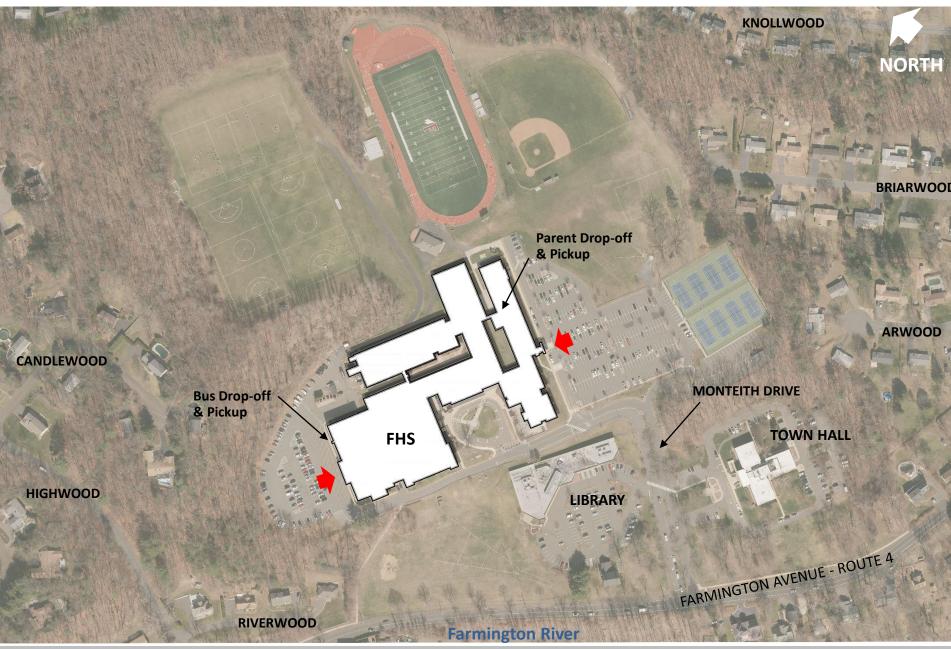
Farmington High School

Creating New Possibilities | Option 3

GA+M architecture BSC GROUP VANZELM MANDEL BSC GROUP

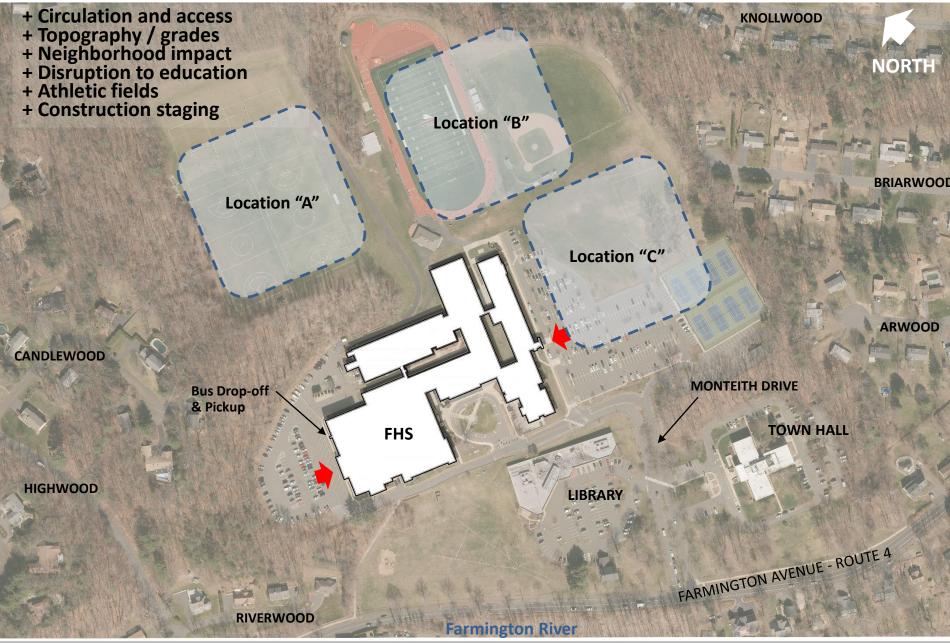
Existing Site







Potential Building Locations

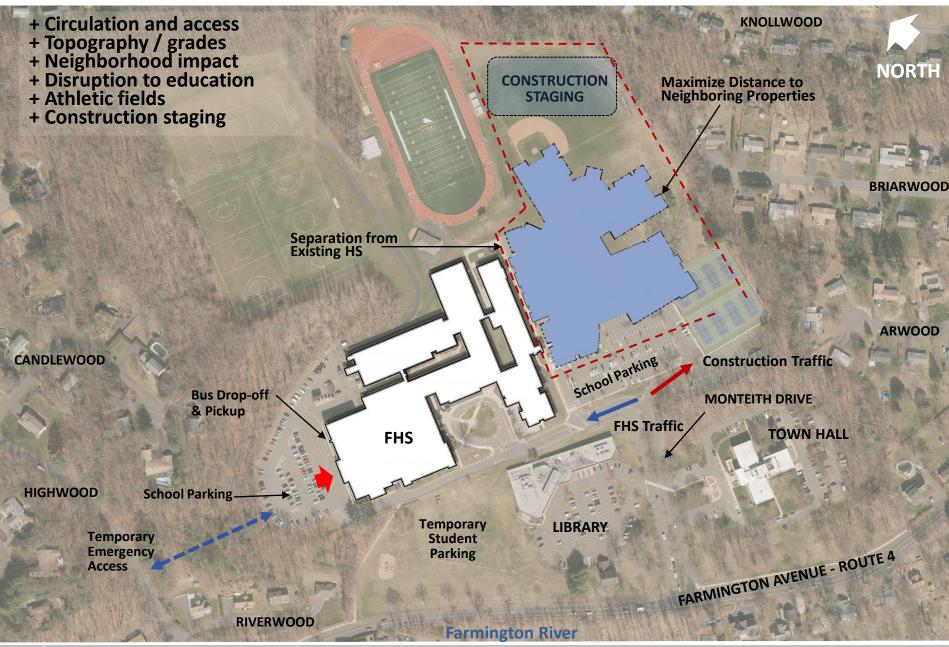


Farmington High School | Creating New Possibilities | Option 3

BSC GROUP



Potential Building Locations

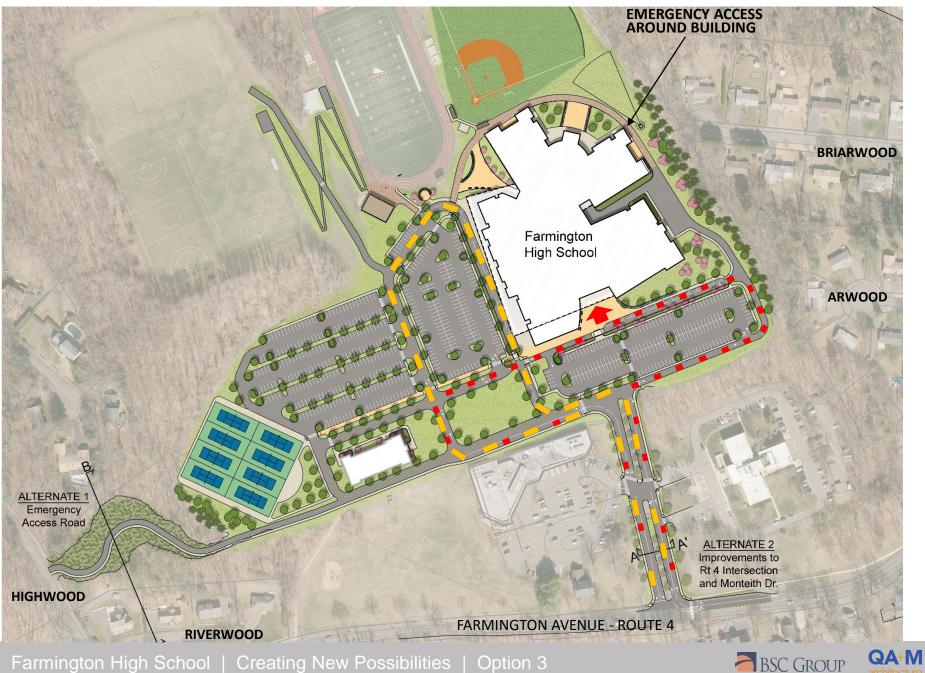


Farmington High School | Creating New Possibilities | Option 3

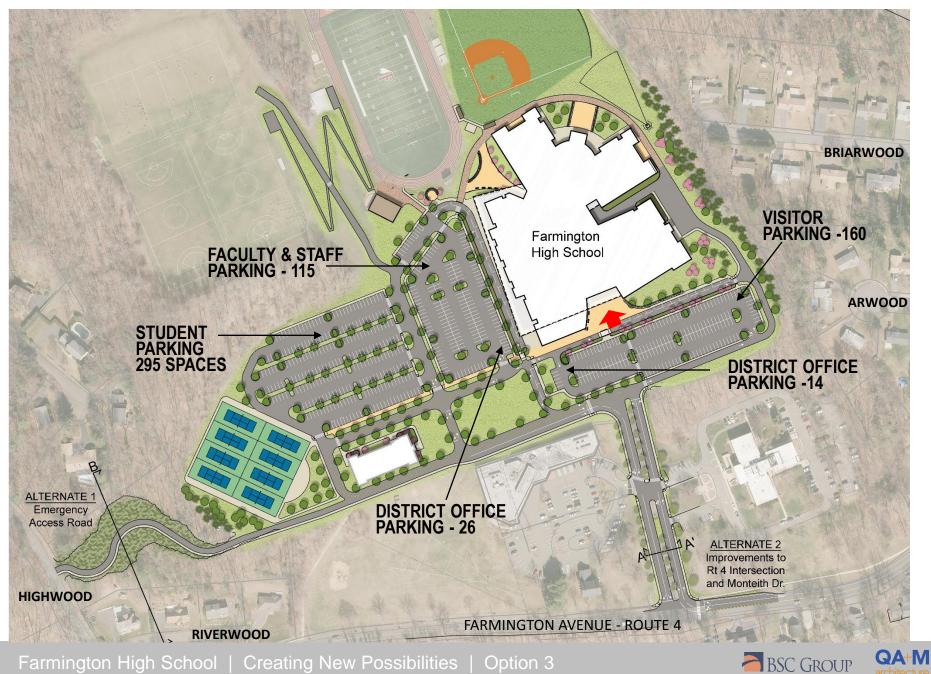
BSC GROUP



Vehicular Traffic



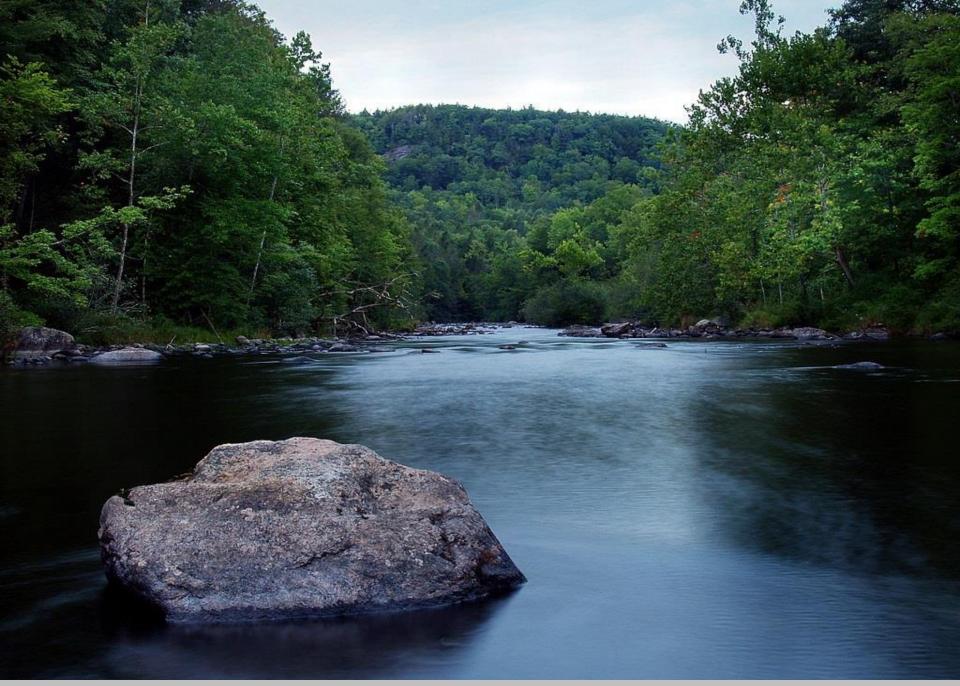
Parking – 610 spaces





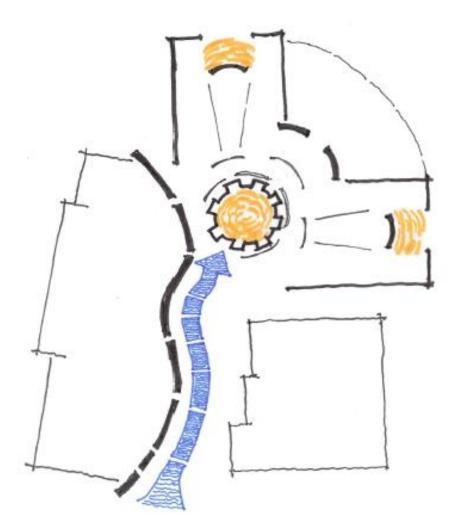








Concept



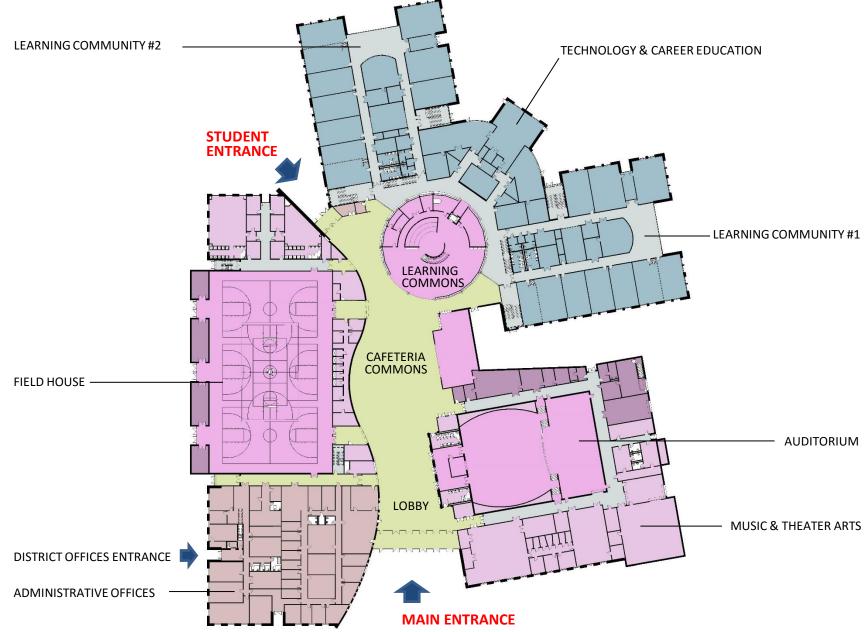


Main Entrance





Concept Design



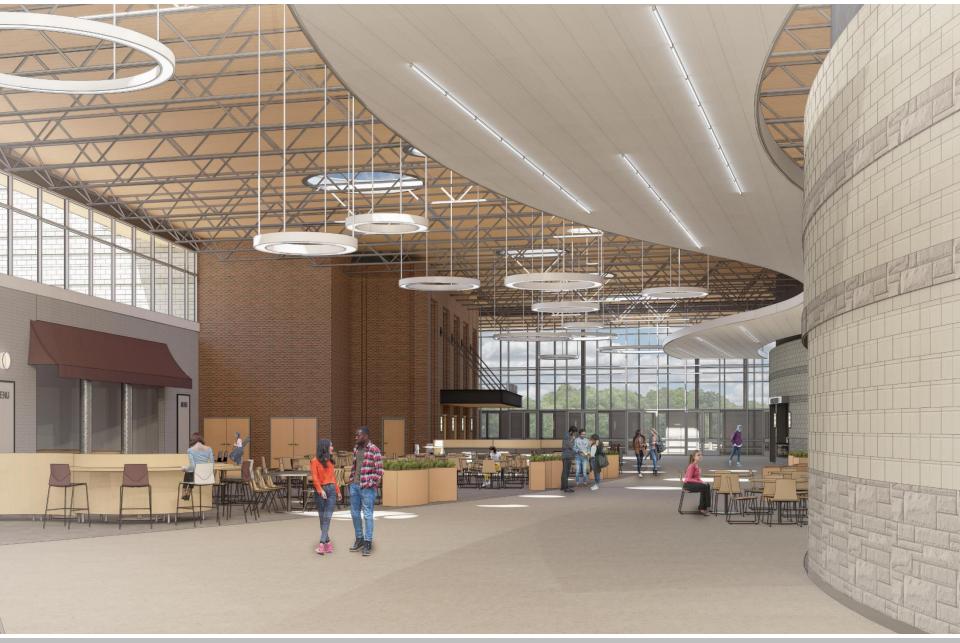


Entrance | Student Commons





Cafeteria | Commons



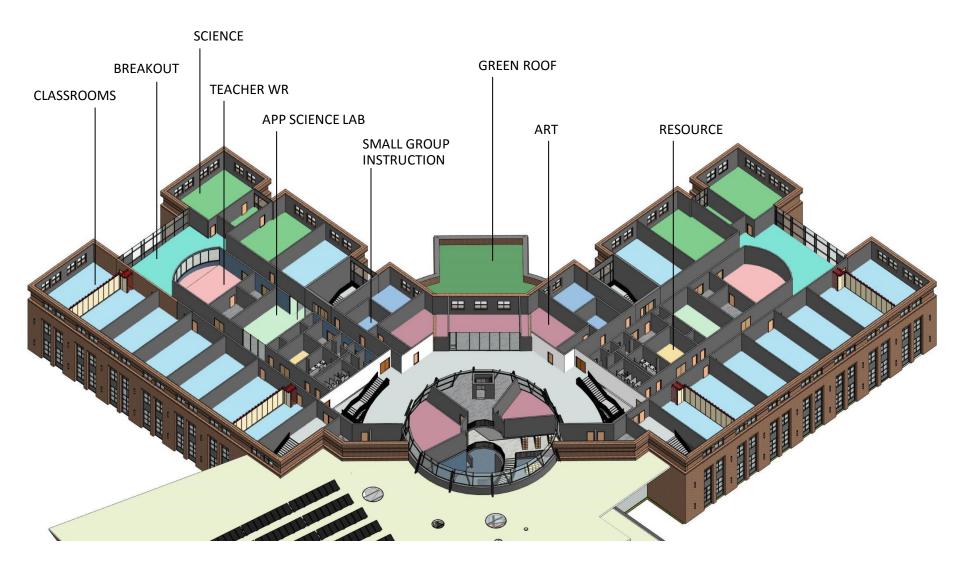


Media Center | Cafe





Concept Design



THIRD FLOOR PLAN - LEARNING COMMUNITIES 5 & 6



Learning Community | Breakout / Collaboration





Learning Community | Green Roof







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Building Exterior

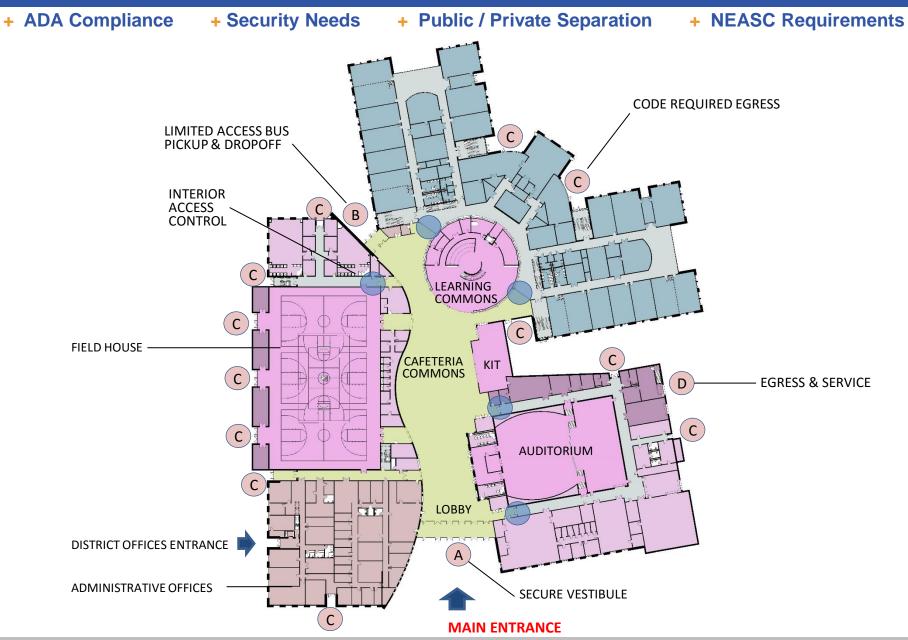




Criteria



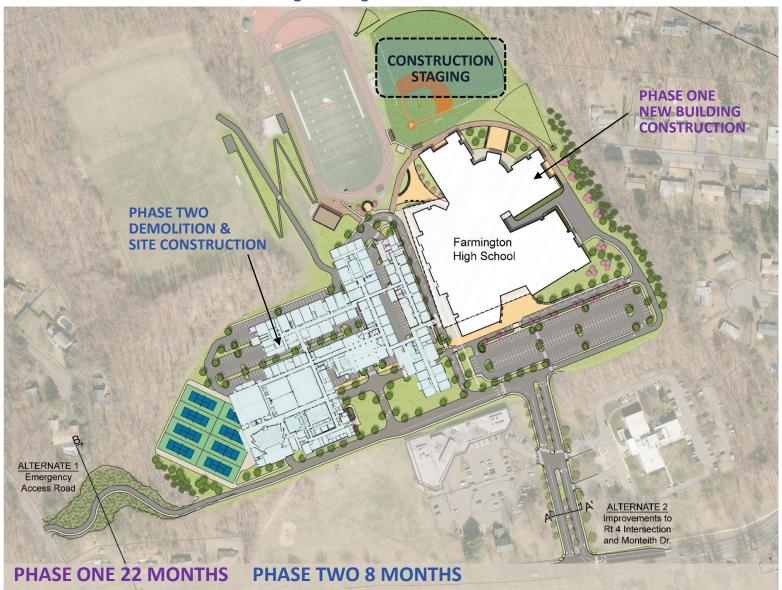
1 Local, State and Federal Requirements





2 Programmatic Needs

+ Education Disruption + Satisfies Ed Specs + Undersized Learning Spaces + Collaborative Learning
+ Space for New or Enhanced Educational Programming





3 Consolidation of Space

- + Reduce Sprawl and Improve Circulation + Utilization of Space + Robotics + Alternate High School
- + School District Administration Offices

PROJECT DATA

Projected Enrollment: 1,405 students State OSCGR Allowable: 253,602 Net SF 1928 Building Bonus Area: 6,000 Net SF Total Allowable Area: 259,602 Net SF District Offices Area: 9,626 Net SF* Total Area: 269,228 Net SF Total Area Gross: 278.651 GSF

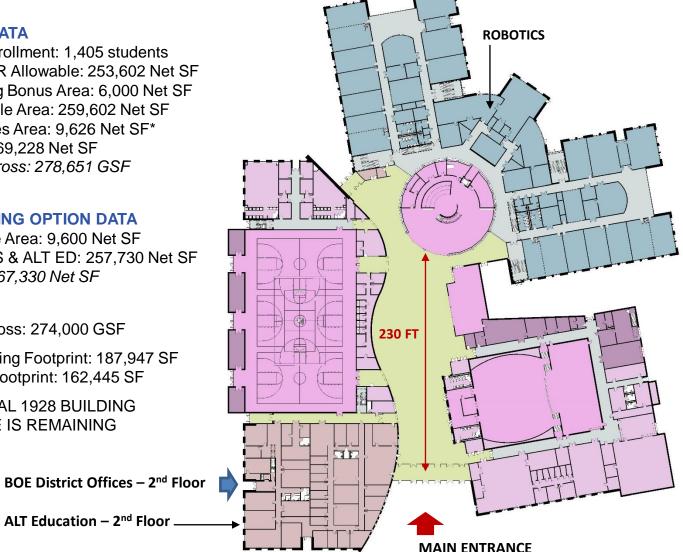
NEW BUILDING OPTION DATA

District Office Area: 9,600 Net SF Total Area HS & ALT ED: 257,730 Net SF Total Area: 267,330 Net SF

Total Area Gross: 274,000 GSF

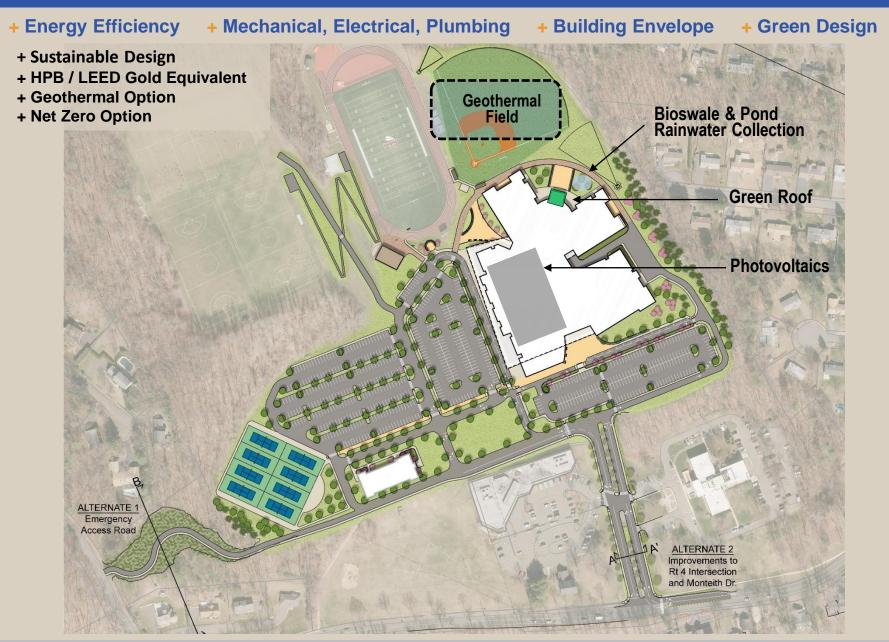
Original Building Footprint: 187,947 SF Option One Footprint: 162,445 SF

THE ORIGINAL 1928 BUILDING STRUCTURE IS REMAINING





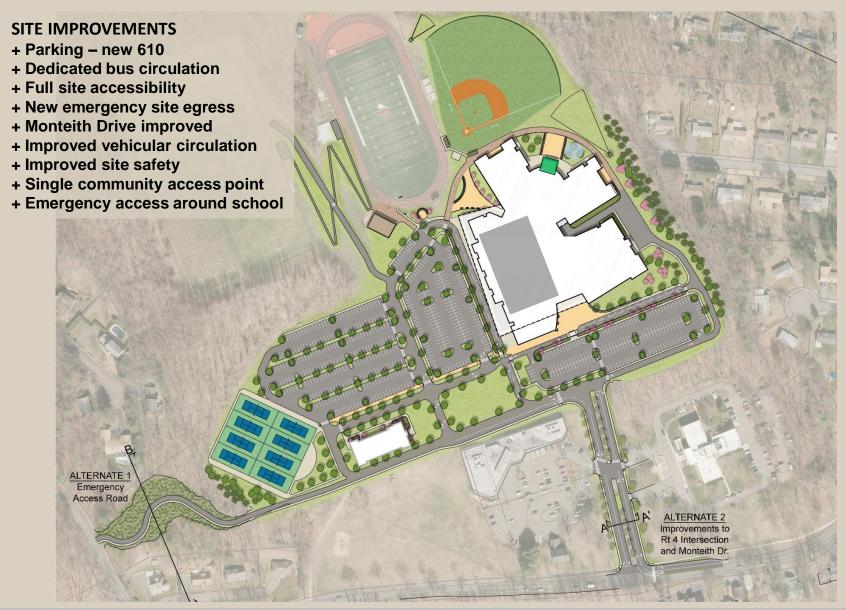
4 Building Systems – Low Energy HVAC Systems Approach





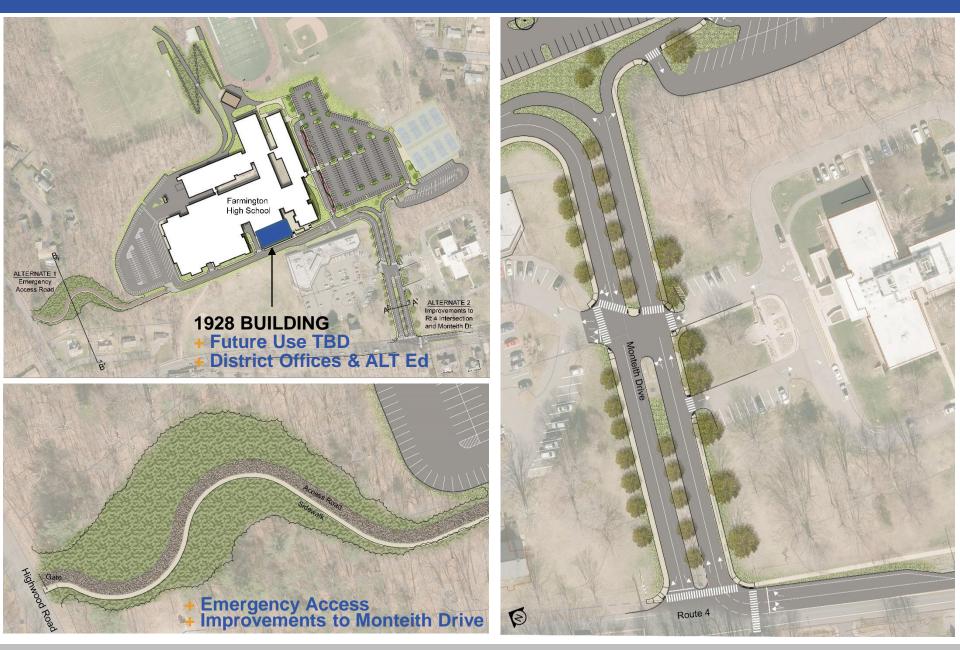
5 Site Improvements

+ Athletic Fields + ADA Compliance + Site Layout Plan + Traffic Flow, Pedestrian Safety + Parking





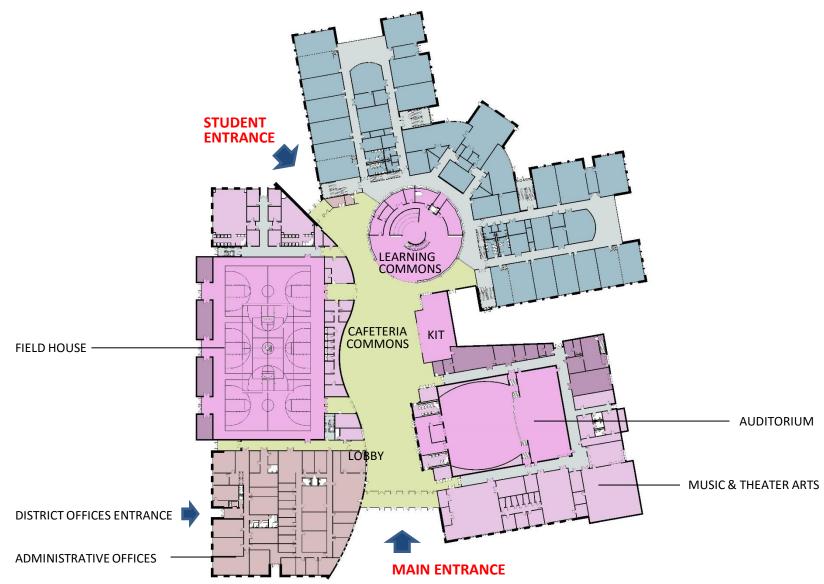
Alternates













7 Fit and Feel For Farmington



+ Internal Design

+ External Design

+ Overall Fit + Feel







Your Farmington High School Design Team

Principals	Architecture		Interior Design	Marketing
Dave	Angela	Kent	Rebecca	Cynthia
Rusty	Dan	Lan	Erika	Sharon
Tom	Mike	Julie		
	Carson	Erin		
	Victoria	Dinea		
	Alex			











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Farmington High School- New Option

Mechanical and Electrical Systems

January 22, 2020





FHS – NEW OPTION - HVAC Systems

Central Cooling and Heating Systems

GENERATION

- Air Condition Entire Building
- High Efficiency Water Cooled Chillers/Heat Pump Chiller Option/Condensing Boilers
- Adiabatic Condensers in lieu of Cooling Towers for water savings
- Geothermal and Photovoltaic Options

DISTRIBUTION

- Air Handling Units with Dedicated Outside Air System (DOAS) and Air to Air Heat Recovery
- Minimize Ductwork to Just Serve Ventilation Requirements
- Maximize Use of Piping for Energy Transport Efficiency

TERMINAL DEVICES

- Chilled Beams
- Radiant Ceiling Panels



FHS – NEW OPTION - Electrical Systems

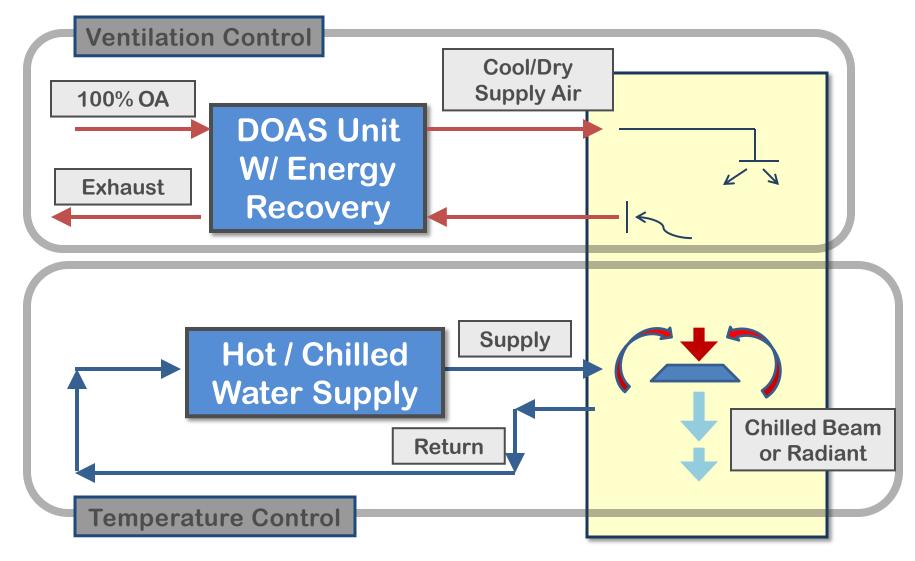
Proposed System – Power Distribution

GENERATION

- Main Electrical Service, Switchboards & Distribution
- Emergency Power
 - Generator: To Serve Emergency Power Loads And Standby Loads
 - Include Cooling and Heating System Components



LOW ENERGY HVAC SYSTEM APPROACH



Room / Zone

