

# 2015 CEFPI Northeast Region Exhibition of School Planning and Architecture

## Hanover High School

Hanover, MA

High School

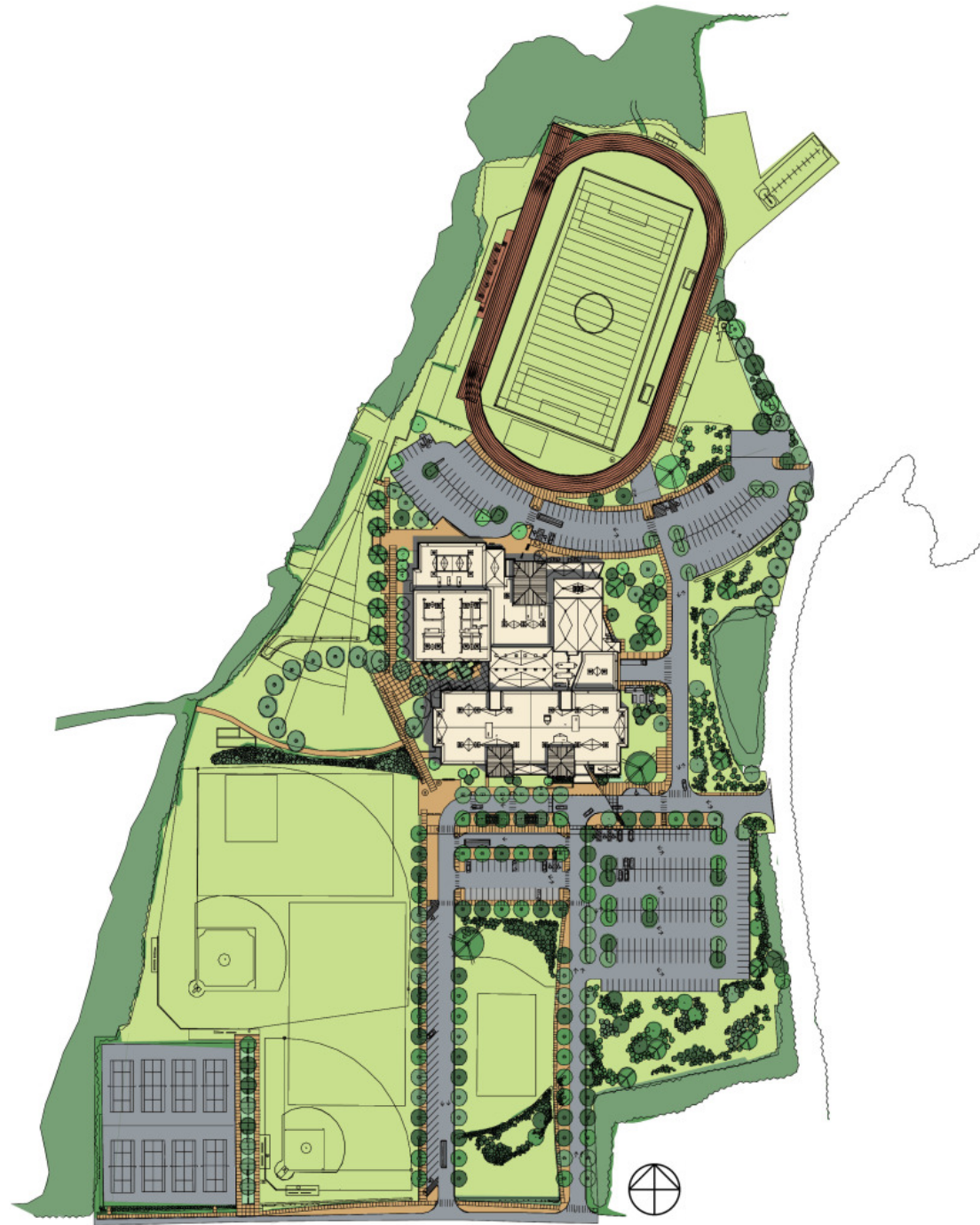
New Construction

# Hanover High School





# Hanover High School



## Town Square

### **Community Environment:**

The new 157,000 sf high school was planned for the whole community's needs. Through inclusive community visioning workshops, in which parents, teachers, students, and businesspeople articulated a desire for a school that builds community, the school was designed and organized around a "town square" cafeteria that serves 800 students during the day, and is actively used by the community in the evening and on weekends.







**Community Environment:** The central dining commons is the literal and figurative heart of the school. In the plan organization, it is at the center of the school, with core spaces including the auditorium, gym, and multi-purpose room easily accessible and visible from the central space. The two-story volume is also connected to a protected outdoor space, with large garage doors that open onto a courtyard.

The building's public spaces encourage collaboration between students and the community: community members use the building as active learners, support experts and volunteers, and students engage in learning experiences outside the building including internships, special projects, and community service.

## Academic Pods

**Learning Environment:** Stakeholders agreed on key concepts for the learning environment that would allow the school to adapt to changing and future educational needs.

- a) Flexibility in space & programs
- b) Interdisciplinary approach
- c) Project-based learning

To meet these goals, academic wings are organized in clusters with classrooms and specialized labs for science, math, and language. Each academic cluster has a teacher planning center, small group rooms between each pair of classrooms, and breakout space.



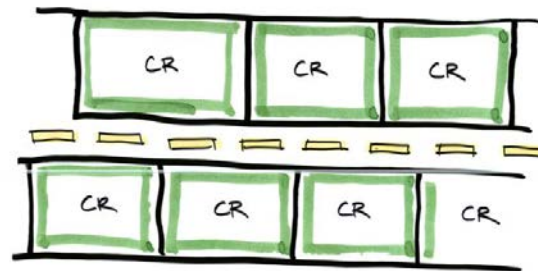


## Flexible for the Future

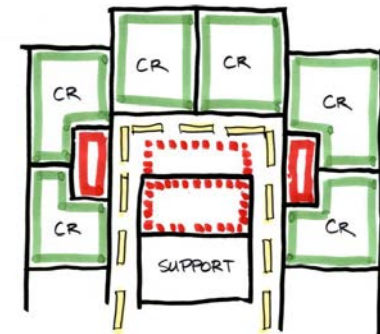
**Learning Environment:** The flexibility of the academic clusters supports future changes in education. The small learning communities foster relationships, communication, and stimulate teacher collaboration. Whether organized as a small learning community to ease the transition for freshman from middle to high school, or organized thematically around a common interest, the clusters support a range of teaching and learning strategies and are adaptable.



EXISTING CLASSROOM LAYOUT



PROPOSED CLASSROOM LAYOUT







## A River Runs Through It

**Physical Environment** – The suburban campus, shared with an elementary and middle school, is bisected by a river and bordered by wetlands, and has a pedestrian path and bridge that connects all three schools. Cultivating a connection to the environment was a critical to engage users with the site, encourage stewardship of the environment, and provide a range of learning spaces. The dining commons opens directly onto a protected courtyard space that is often used for whole class instruction, socializing, and individual or small group work. The fab lab also has garage doors that allow students to easily transition between the classroom space and outdoors to move materials and work on projects.



## Hands-On

**Physical Environment** – Having varied work space for hands-on learning was an important component of the vision and goals outlined during the educational visioning sessions. The school includes a three-part design-build suite, in which the glass-walled design lab overlooks separate robotics/engineering and wood fabrication labs, allowing students to move between the spaces as their projects require.

The school's spaces, from the band room to fab lab, all receive ample daylight and cultivate an indoor/outdoor connection, helping the school achieve MA CHPS verified certification and meet strict sustainability standards.



# Community Engagement

**Futures Team:** The planning process began with a group of stakeholders, the “futures team,” consisting of faculty, parents, students, administrators, and members of community businesses. The 35-person team met for three all-day workshops to envision concepts for the school that would not only serve present needs, also future changes in education.

**Teacher/Staff Meetings:** Concurrent with the work of the futures team, all of the faculty and staff met in small groups to think about school organization, and how to create effective teaching and learning experiences.



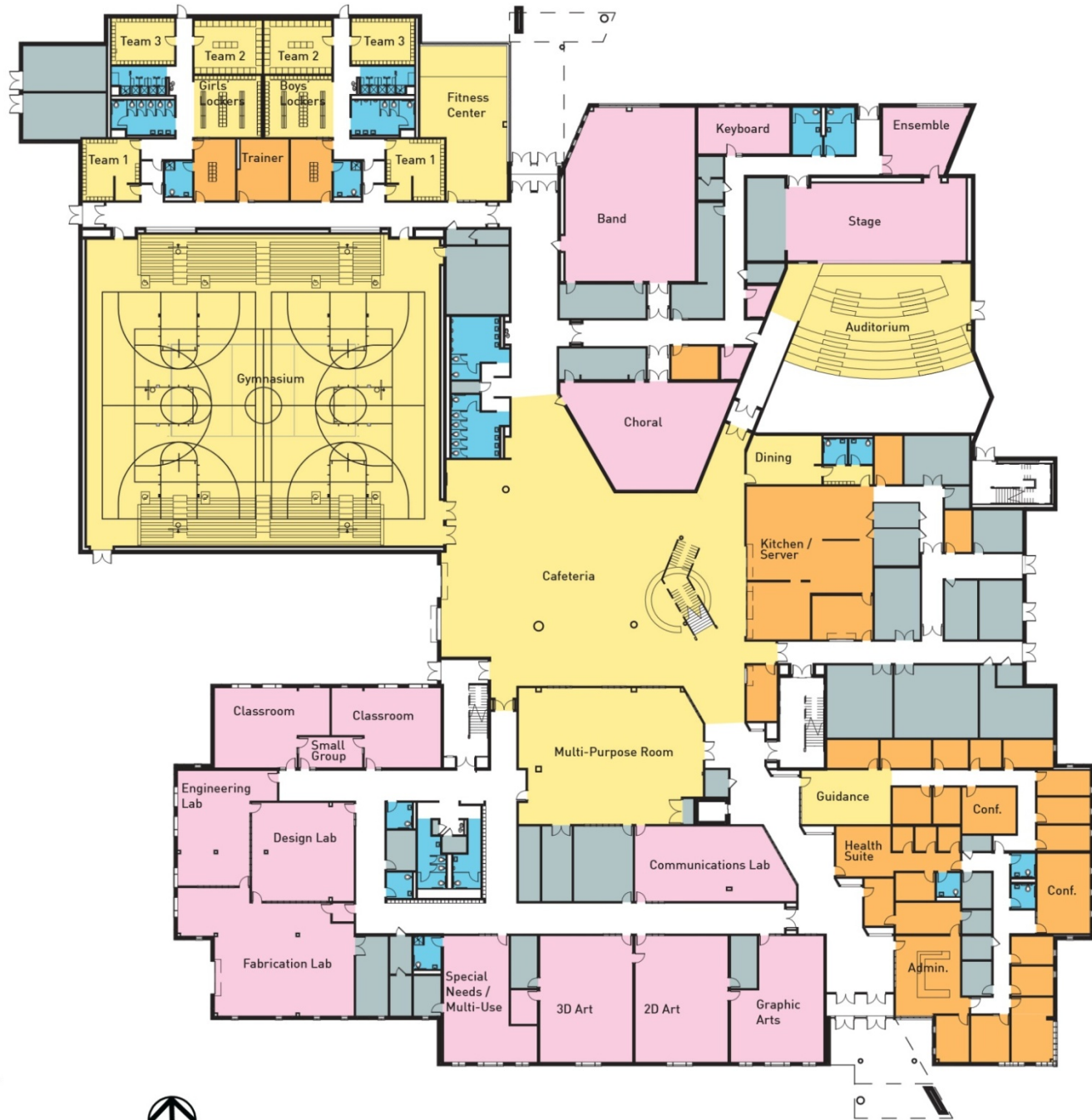


## Goals to Groundbreaking

**Planning Process:** Following the development of the educational vision, the **educational specifications team** began translating those goals into space needs and desired adjacencies, to form the specifics of a new building. This process was facilitated by the educational planner and the architect who were actively involved in all planning phases and presented the process and goals in open, public forums.

The outcome of this planning process is a new school building that engenders pride among building users, creates a place for hands-on, interdisciplinary learning, and will endure as teaching and learning continue to evolve.



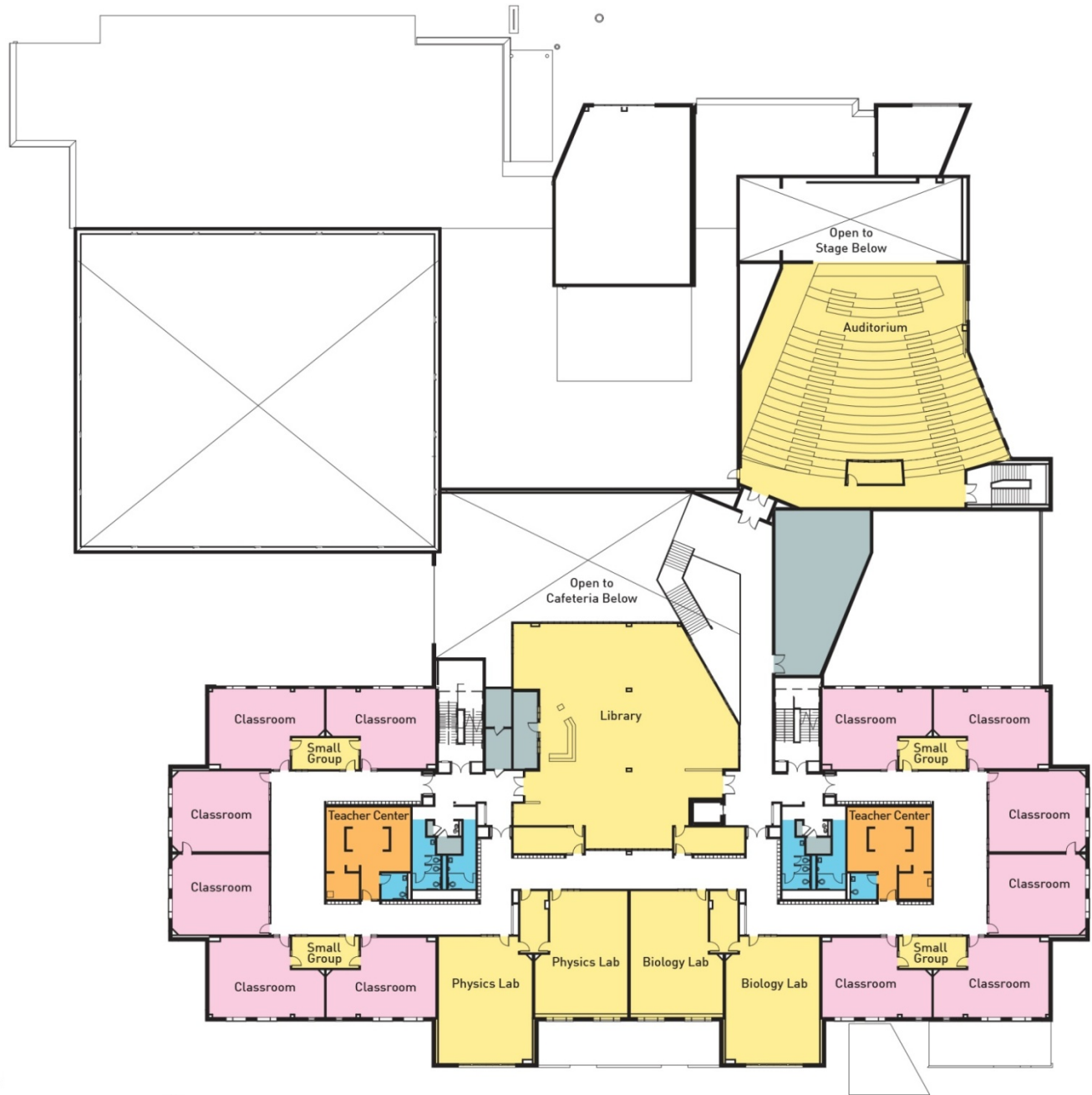


Hanover High School  
Hanover, MA  
First Floor Plan

0 10 20 30 40 60







Hanover High School  
Hanover, MA  
Second Floor Plan

0 10 20 30 40 60







# Exhibition of School Planning and Architecture

## 2015 Project Data

Submitting Firm :	
Project Role	Architect
Project Contact	Lori Cowles, AIA
Title	Principal, HMFH Architects, and Project Manager
Address	130 Bishop Allen Drive
City, State or Province, Country	Cambridge, MA
Phone	617 492 2200

Joint Partner Firm:	
Project Role	
Project Contact	
Title	
Address	
City, State or Province, Country	
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Other Firm:	
Project Role	
Project Contact	
Title	
Address	
City, State or Province, Country	
Phone	

Construction Firm:	
Project Role	
Project Contact	
Title	
Address	
City, State or Province, Country	
Phone	

# Exhibition of School Planning and Architecture

## 2015 Project Details

<b>Project Name</b>	Hanover High School
<b>City</b>	Hanover
<b>State</b>	MA
<b>District Name</b>	Hanover MA Public Schools
<b>Supt/President</b>	Matthew Ferron, Superintendent of Schools
<b>Occupancy Date</b>	9/2011
<b>Grades Housed</b>	9-12
<b>Capacity(Students)</b>	800
<b>Site Size (acres)</b>	35 just for high school, 101 acre site total
<b>Gross Area (sq. ft.)</b>	157,000
<b>Per Occupant(pupil)</b>	196 sq / student
<b>gross/net please indicate</b>	
<b>Design and Build?</b>	
<b>If yes, Total Cost:</b>	
<b>Includes:</b>	
<b>If no,</b>	
<b>Site Development:</b>	\$8,200,000
<b>Building Construction:</b>	\$40,684,582
<b>Fixed Equipment:</b>	\$1,709,808
<b>Other:</b>	
<b>Total:</b>	50,594,390











