

Hildreth Elementary School

Story of a Building

13 October, 2022



ARROWSTREET

HARVARD PUBLIC
SCHOOLS



NORTH
AMERICA

HUDSON BAY 1,300 miles

DENALI 3,350 miles

OLD FAITHFUL 1,950 miles

GRAND CANYON 2,200 miles

EVERGLADES 1,250 miles

HARVARD

HAWAII 5,000 miles

Welcome

Your Speakers Today

Massachusetts School Building Authority

- James A. MacDonald, CEO
- Barbara Hansberry, Director of Strategic Planning

Harvard Public Schools

- Dr. Linda Dwight, Superintendent
- Dr. Rebecca Katsh-Singer, Principal
- SusanMary Redinger, Chair

Project Team

- Thomas P. Murphy, AIA, NV5
- Laurence Spang, AIA, Arrowstreet
- Ryan Lynch, Shawmut Design and Construction



Today's Agenda

8 – 8:25 **Welcome**

8:25 – 9:50 **Session 1: The Learning Environment**

- Educational Benefits for Student Learning Dr. Linda Dwight
- Creating a Sense of Identity and Place Larry Spang
- Q+A

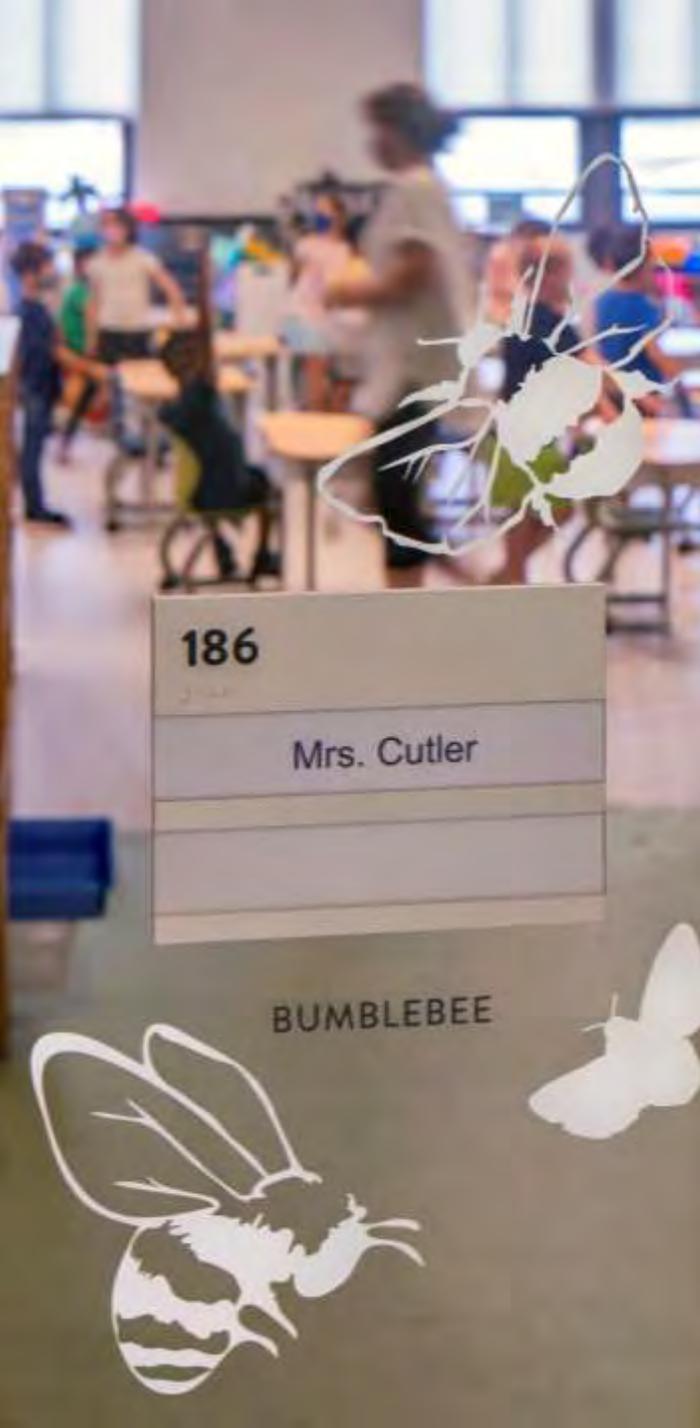
Break - 10 Minutes

10 – 10:45 **Building Tour**

10:45 – 11 **Q+A**

11 – 12:30 **Session 2: Working with the Community**

- Getting to Yes SusanMary Redinger
- A Building for Harvard Larry Spang
- Managing the Process Tom Murphy
- Building a School Ryan Lynch
- Q+A



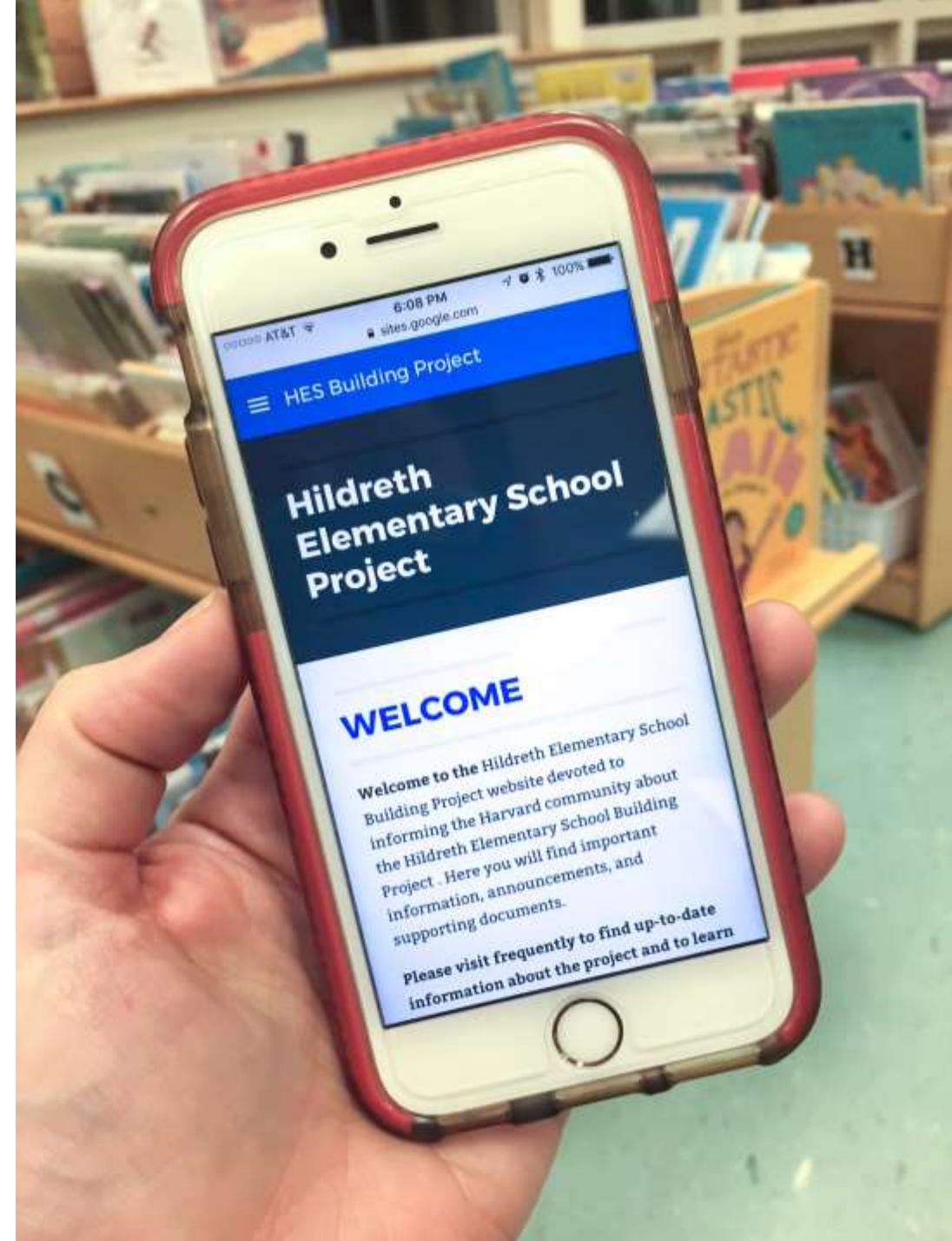
Educational Benefits for Student Learning



HES Visioning Committee

Goals

- Create spaces that will enhance learning beyond the classrooms and promote 21st century skills
- Enhance support for Special Needs
- Build a sense of a learning community
- Provide advanced technology with future flexibility
- Provide an optimal learning environment
- Create a building that is safe and secure while providing for community use



Harvard Public Schools Vision Statement:

We commit to providing a high quality education centered around dynamic learning and personal well-being in a community where everyone can find belonging.

Healthy Classrooms

HEALTHIER
MATERIALS

ERGONOMIC
FURNITURE

DAYLIGHT
& VIEWS

OPERABLE
WINDOWS

NATURAL
LOOK
MATERIALS

DISPLACEMENT
VENTILATION FOR
THERMAL
COMFORT & AIR
QUALITY

ACOUSTICS

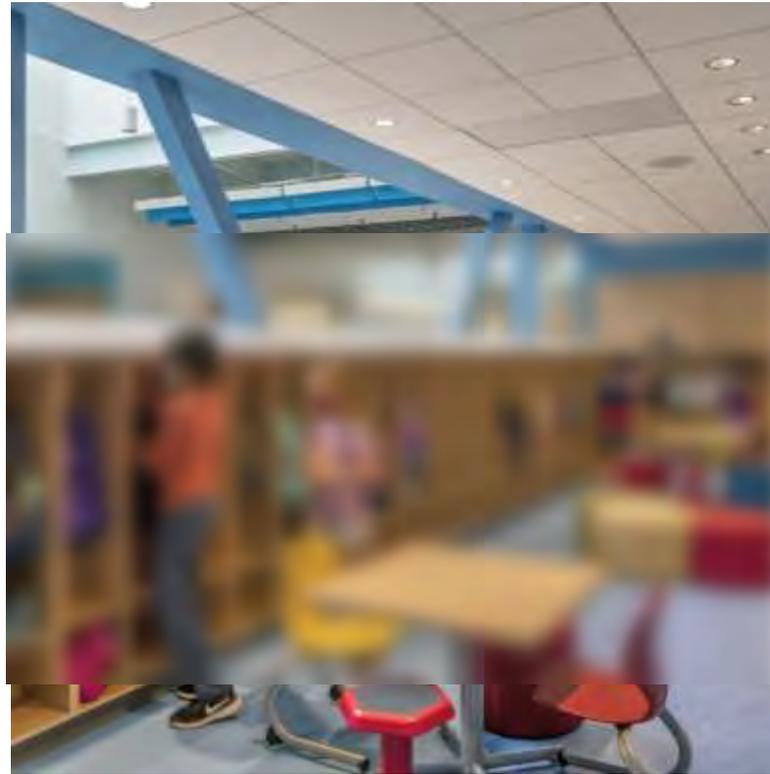
DIMMABLE
INDIRECT
LIGHTING



Breakout Spaces



Grades K-1



Grades 2-3



Grades 4-5

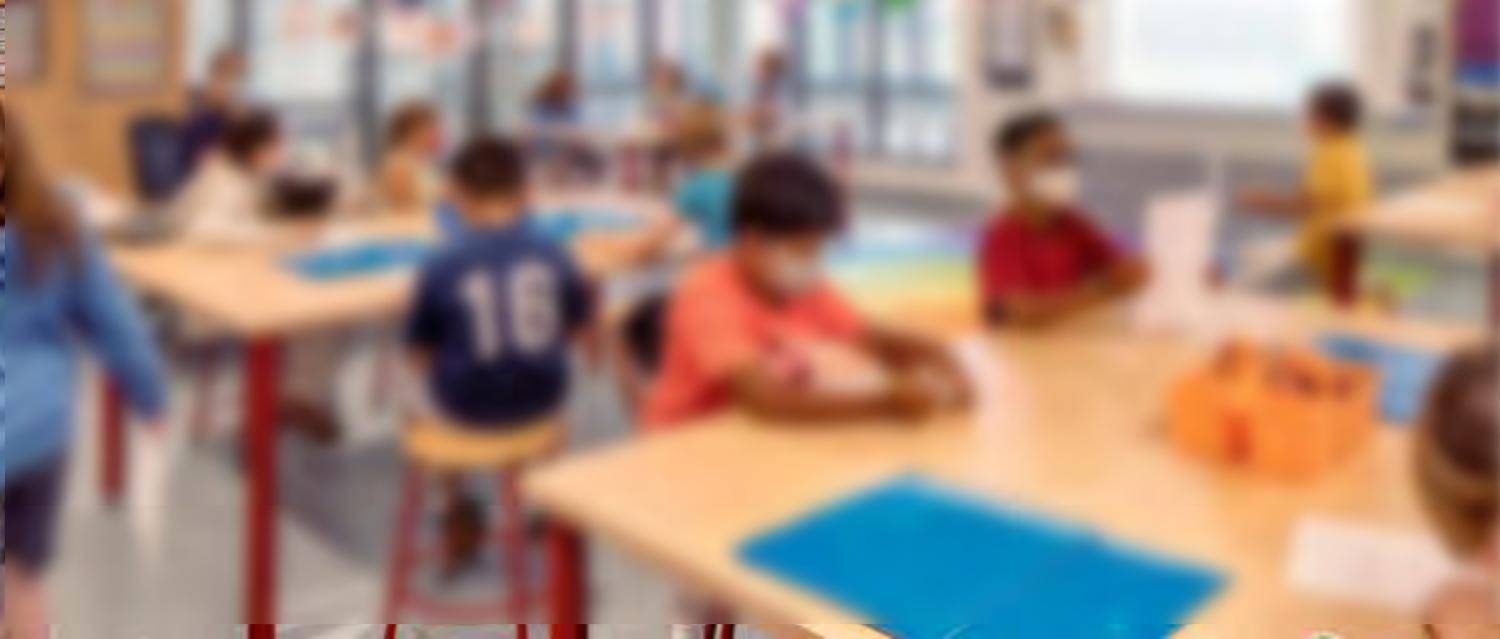
Open Media Center



Learning Stairs



Art/STEM Room



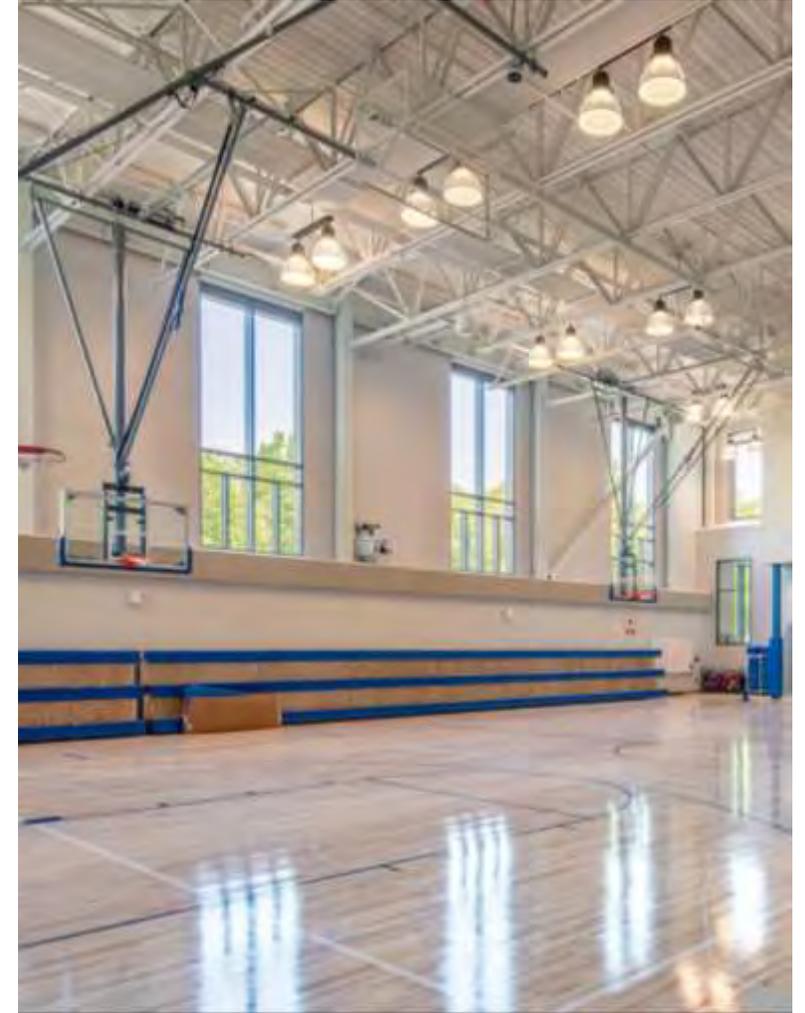
Natural Daylight



Art Room



Grade 4-5 Breakout Area

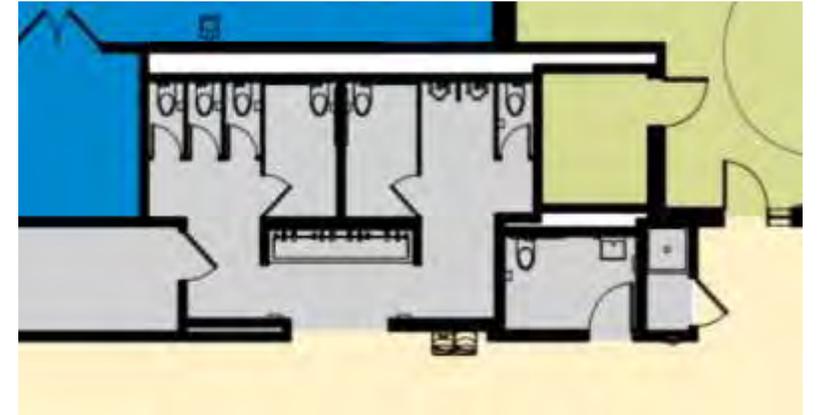


Gymnasium

Alternate Learning Spaces



Adapting to the Future



Shared Sinks at Toilet Room

Community Resources





Creating a Sense of Identity and Place

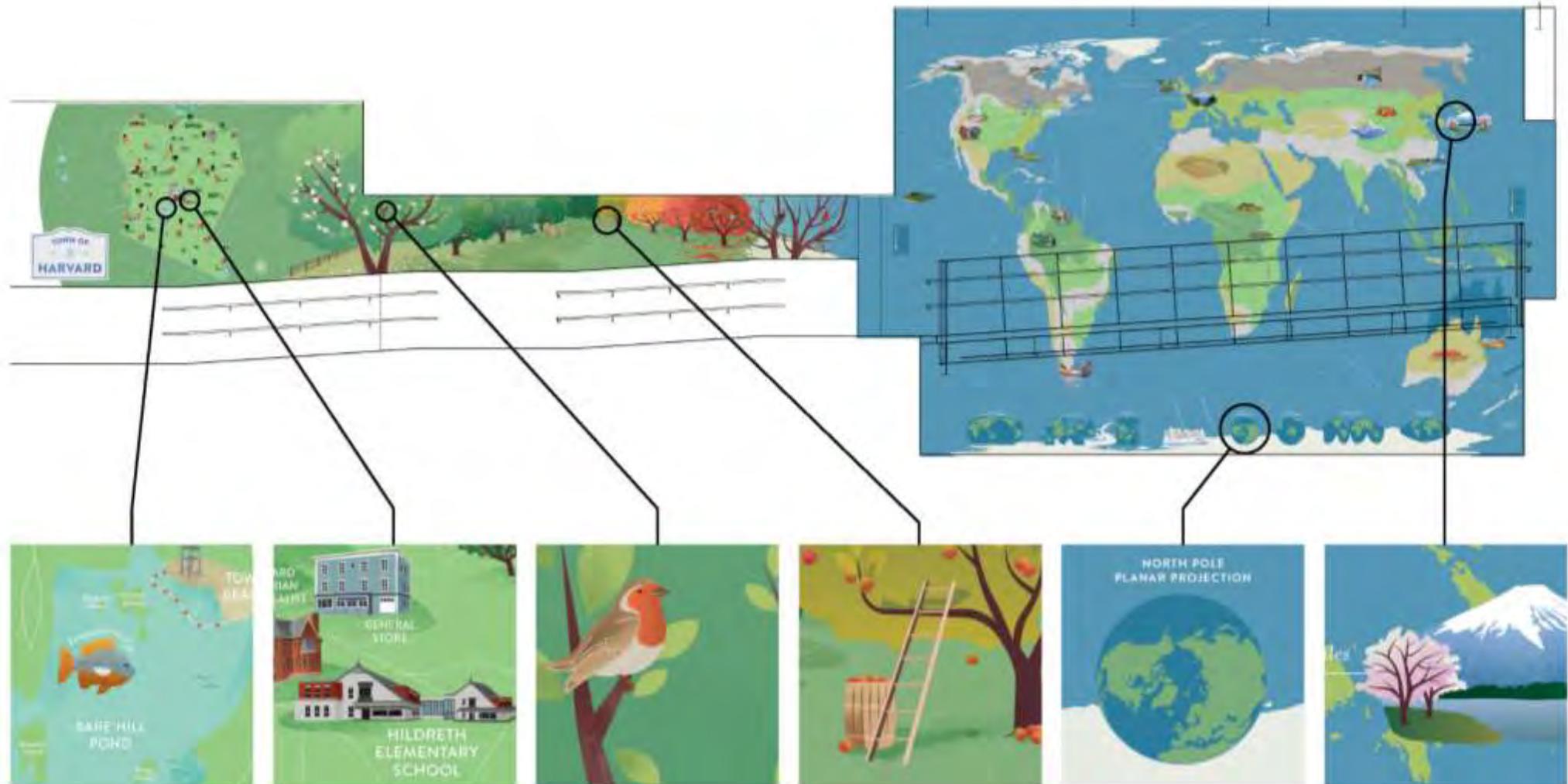
Identity and Place



Identity and Place



Identity and Place



Wayfinding



PRESCHOOL & KINDERGARTEN



FIRST GRADE



SECOND GRADE



THIRD GRADE



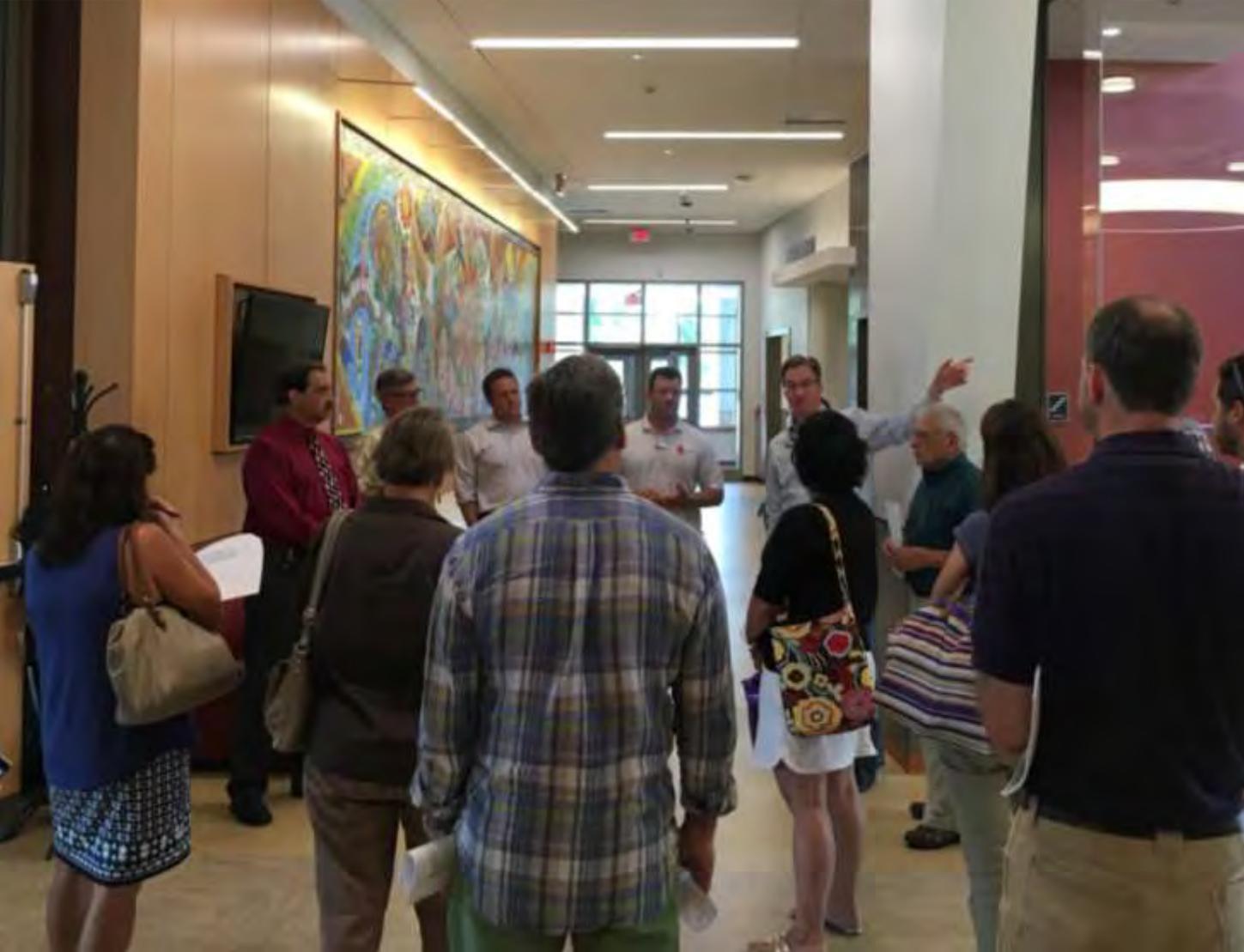


Q&A / Discussion



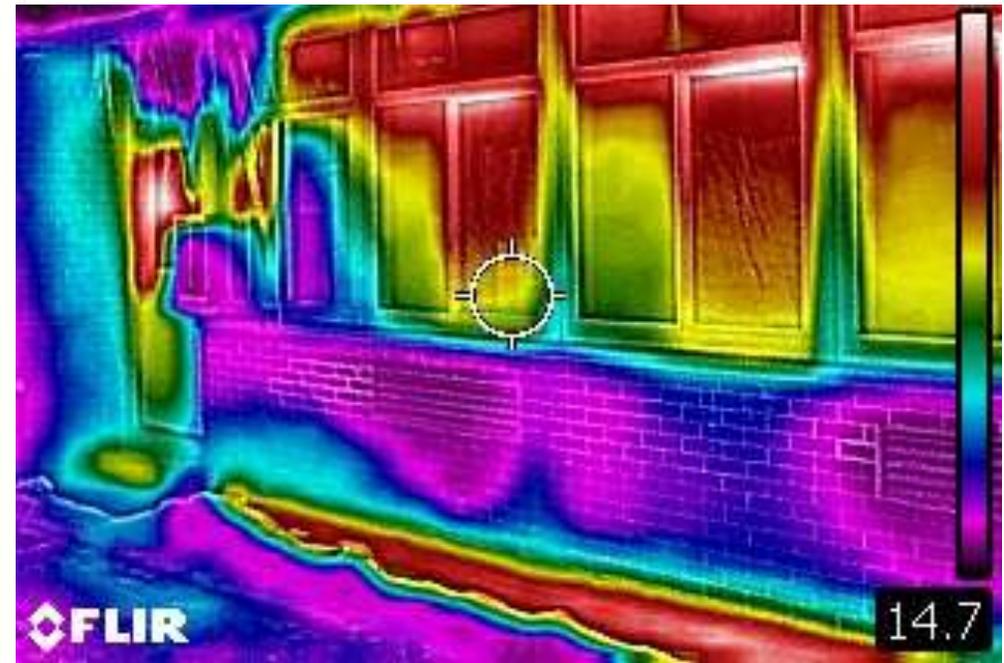
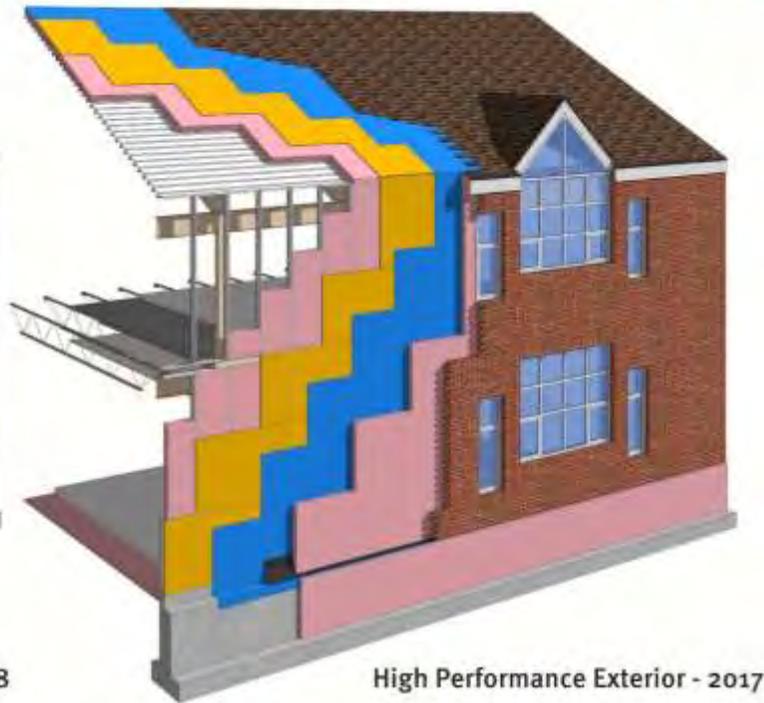
Working with
the Community

Involve the Community



Document Existing Deficiencies

Preliminary Investigations



Inform the Public

The Vote and Construction Timeline

YES

Start school YES at 4th and 5th grades

New Building

Detailed Design work	now - Apr '19
Bids received	April 2019
Construction begins	June 2019
New building completed	Feb 2021
Site work completed	August 2021

Town's Cost: \$34.6M
Tax increase - 11%

YES vote • BUILD A NEW SCHOOL	NO vote • BACK TO DRAWING BOARD
<p>Cost: 11% tax increase (based on info from 4/2018)</p> <ul style="list-style-type: none"> ✓ Receive \$18+ million grant from state ✓ No roof problems 	<p>Cost: 10% tax increase (based on info from 2017*)</p> <ul style="list-style-type: none"> ✗ Lose grant from state & pay for new feasibility study (adds years to project) ✗ Roof still gets ice dams, will leak again and need future replacement

What Happens if the Town Votes No?

Renovation

DENIES funding*

Site on New	April 2020
City Funds	April 2021
Site on	April 2021
tion Funds	April 2021
vised	April 2022
ction begins	June 2022
ions complete	'23 - '24

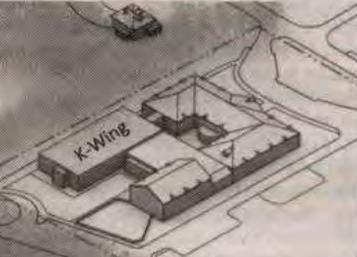
Cost \$32M-\$47.4M**
increase 12%-19%

*Timeline and costs are much less certain if MSBA denies funding. This timing assumes a best-case scenario. Costs will ultimately depend on what the town approves.

**This is for new K-wing, code upgrades repairs. High estimate includes new and educational upgrades.

lowest rate of 9%-5.5% on the bond.

The Better Way School



New Kindergarten Wing

Renovations to the 1988 Building

- New Roof
- Improved Heating system
- Sprinklers and all code updates

What if? Repairing HES could top \$28 million; state would pay nothing

What if? Repairing HES could top \$28 million; state would pay nothing

BY HEATHY GREEN, THURSDAY FEBRUARY 15, 2018

SCHOOL AND OTHER NEWS/ISSUES

It's \$14M using SBC's own project cost data

Costs for Replacing K-wing and Repairing 1988 Elementary School Building

FOUNDATIONS AND SITE WORK	\$2,588,860
New Roof	\$2,164,727
New construction (K-wing)	\$2,187,216
Interior/special construction	\$4,183,842
Plumbing/conveying/electrical	\$2,041,740
Fire protection/sprinkler	\$320,728
Heating and ventilation system	\$1,415,740
Equipment/furnishings	\$693,050
Hazardous materials abatement	\$460,000
Demolition	\$582,290
Construction soft costs (design, pricing, bonds, fees, general conditions, contingencies)	\$6,162,176
3% annual escalation, construction budget	\$1,463,820
Deducting educational improvements	
Included in original renovation estimate	-\$2,000,000
CONSTRUCTION SUBTOTAL	\$22,264,189
PROJECT COSTS	
Classrooms	\$2,115,000
Furniture, fixtures, equipment	\$667,500
MEP/OPM soft costs	\$2,893,986
Feasibility study - town share	\$330,000
PROJECT COST	\$28,270,675

from 1980s

der/HVAC install

ly at 110% capacity)

students & staff

rooms (date unknown)

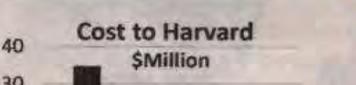
town)

wn)

van/come back)

ject will be higher est rates.

g less!



BETTER WAY SCHOOL	
Start with above total from SBC	\$28,270,675
Less Modular Classrooms*	-\$2,115,000
Less Furniture, Fixtures, Equipment	-\$667,500
Less MEP/OPM Soft Costs	-\$2,893,986
Less Feasibility Study - Town Share	-\$330,000
Total	\$22,660,189



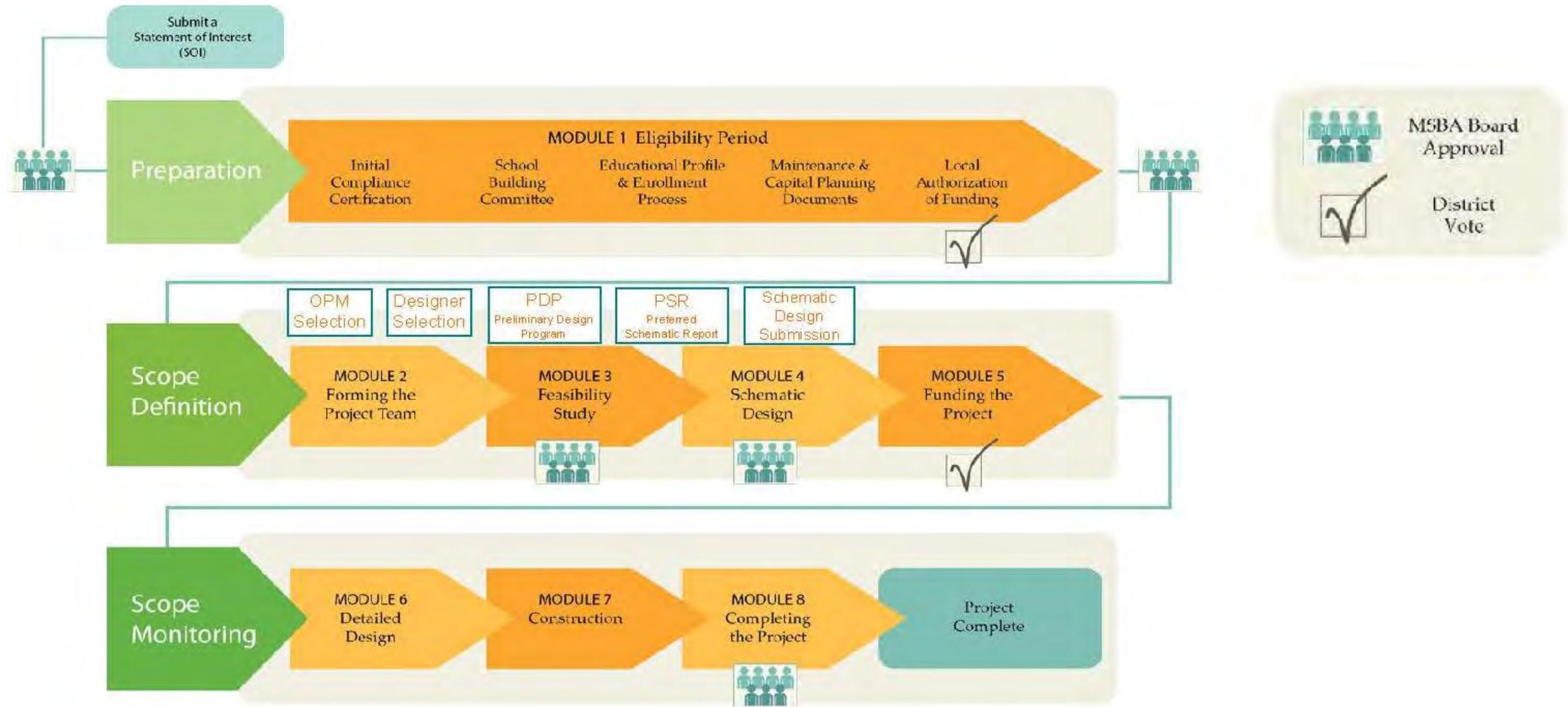
Prepare for Debate



Yes to HES



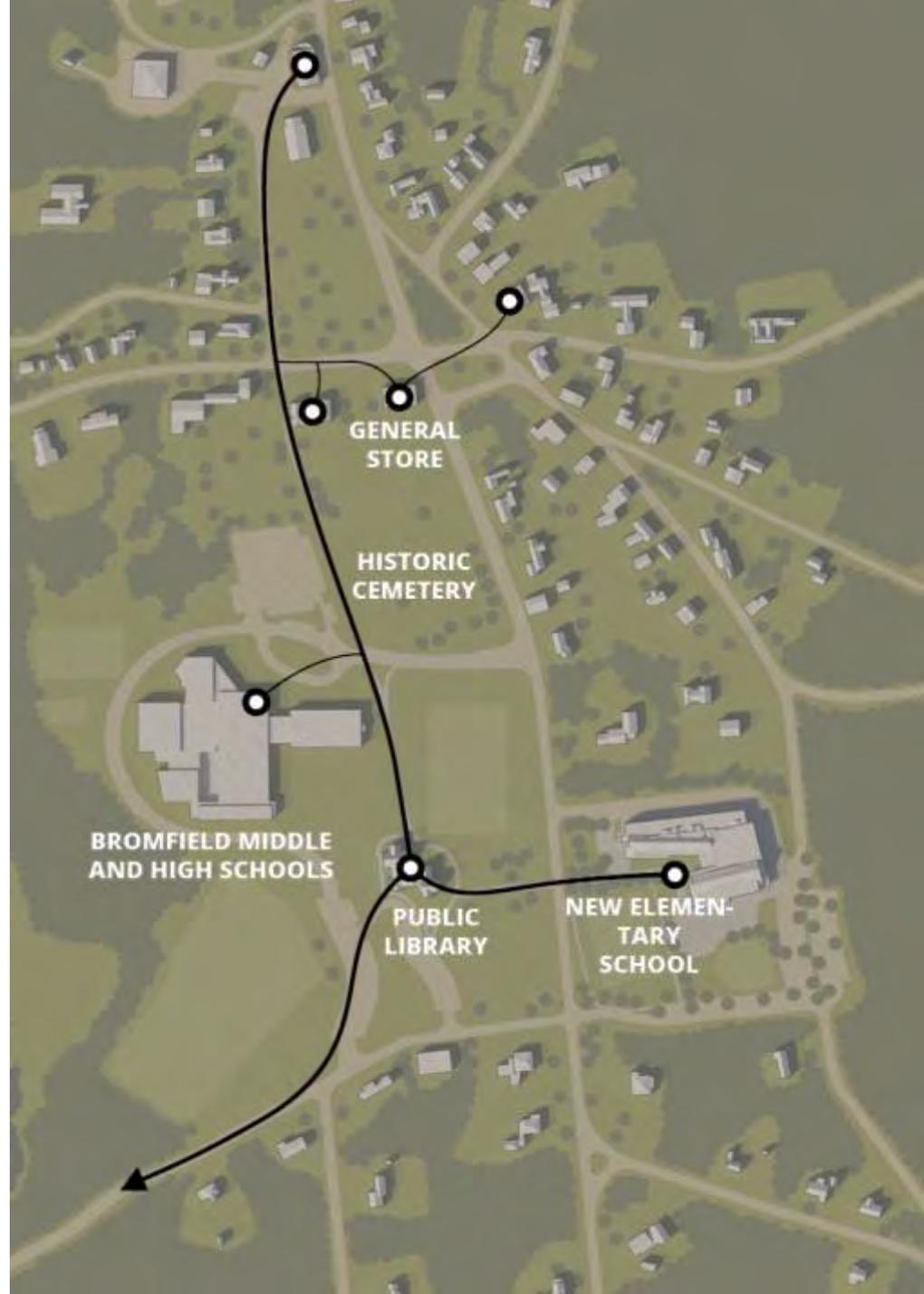
MSBA Core Program Process Overview



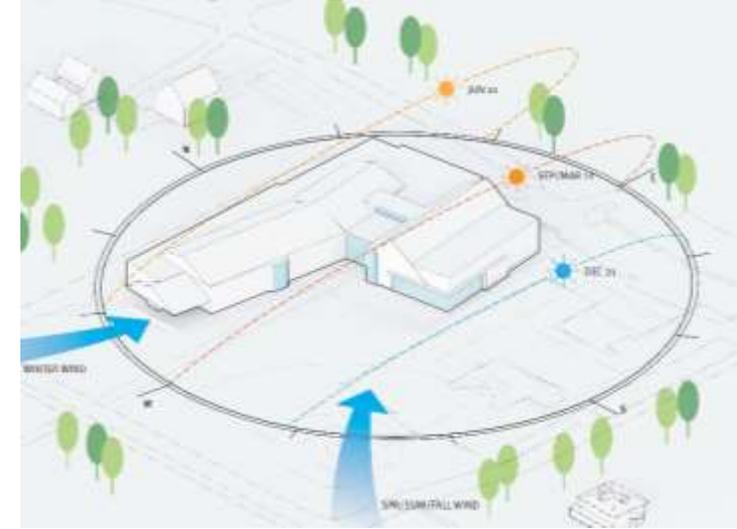
A Building for Harvard



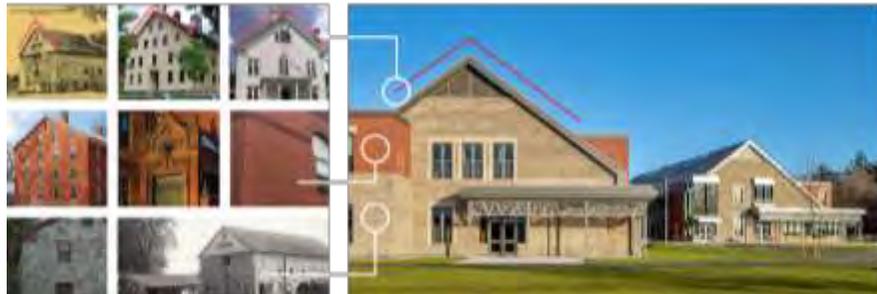
Place in the Community



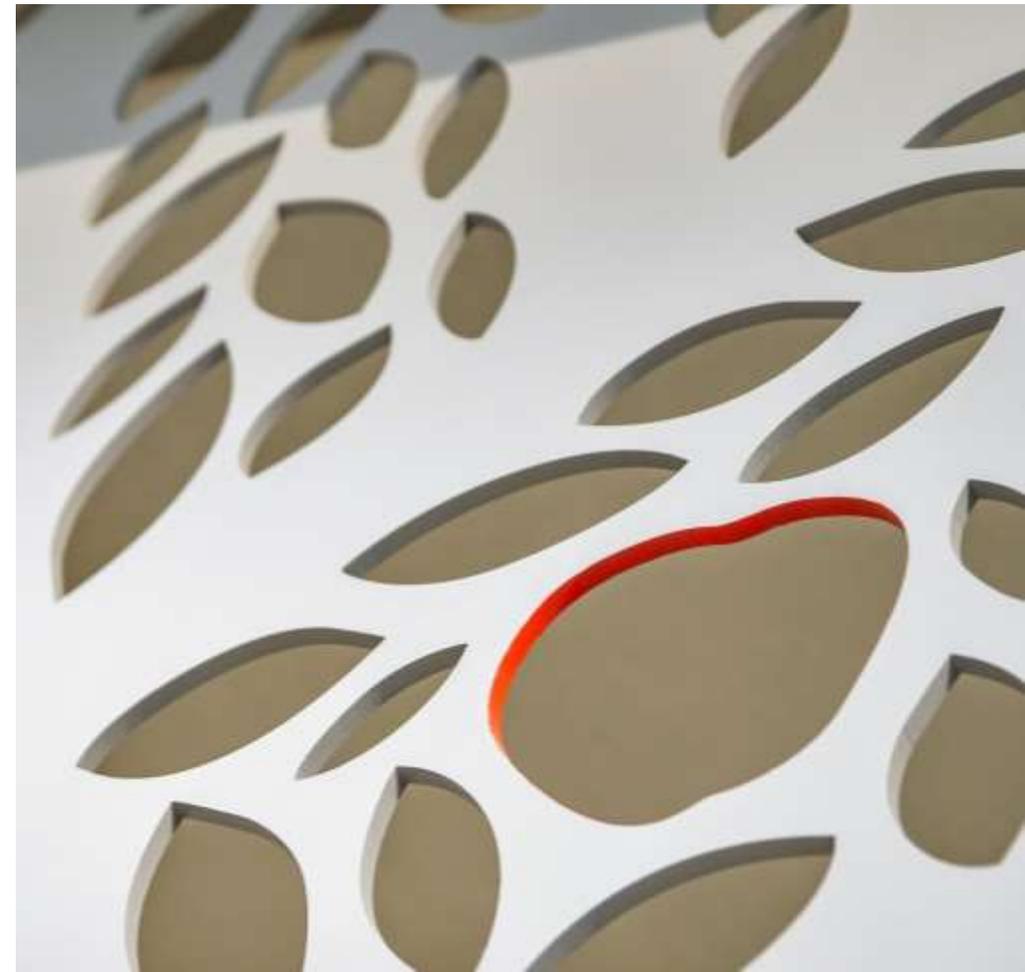
Oriented for Optimization



Historic Context



Reflecting the Community





EXIT

Source: Computer
Use Speed
To display help, press the F1 button



MOODY GOALS 2.0
Collaborate on appropriate
Learner goals with...
- set appropriate goals
- monitor progress of those goals
- support the learner
- track success of those goals
- celebrate success

CLASSROOM FLEXIBILITY
INDIANAPOLIS / ILLINOIS
PELINA WILLIAMS / CLEAR
CAFETERIA PERFORM
LIBRARY/MEDIA AND THE HUB
TEACHERS / GAME DISTRIBUTOR
TABLE & VIEW

SEASON'S READINGS



Managing the Process

Building a School



Safety – A Culture of Care



Regular Safety Huddles



NEW ENGLAND 9 YEARS
COMPANY WIDE 6+ YEARS

Communication

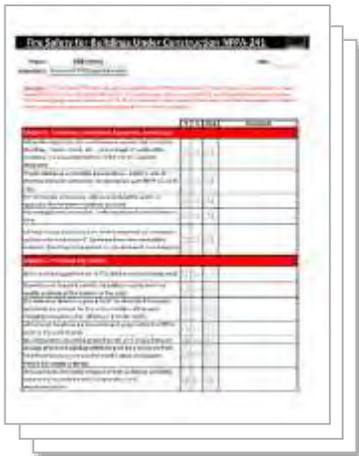


Site Accountability



BADGING PROGRAM / CORI
CHECKS / DRUG TESTING

Detailed Construction Management Plan



Site Specific Safety Plan



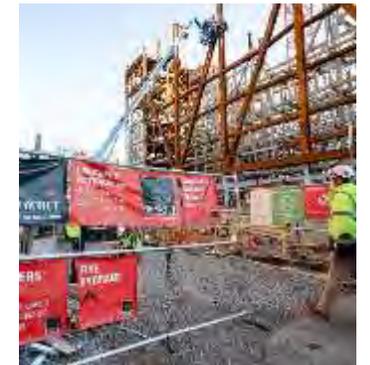
Clear Easy To Follow Signage



Worker Identification



Safety Inside and Outside The Fence



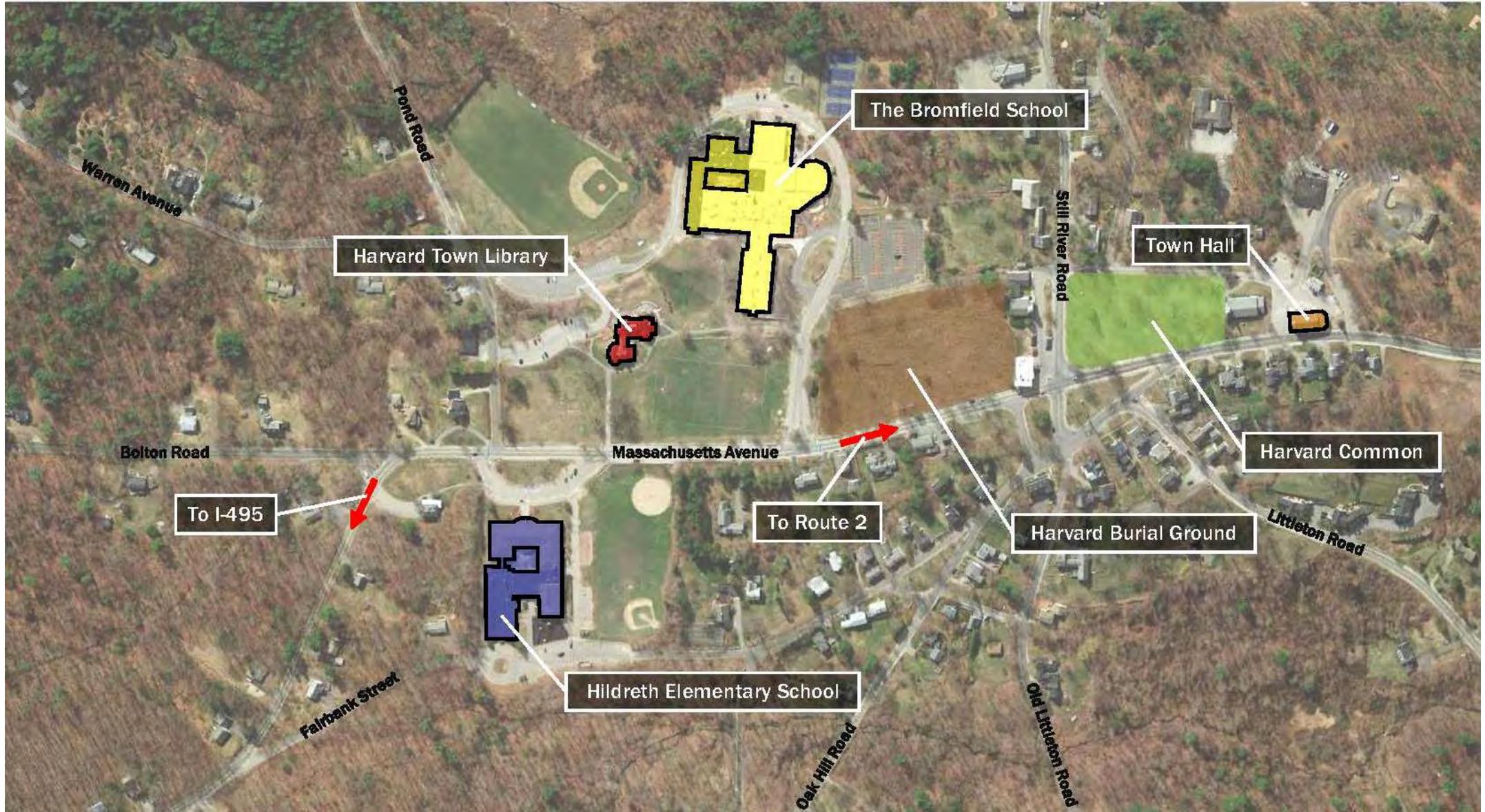
Focus on Education / Community



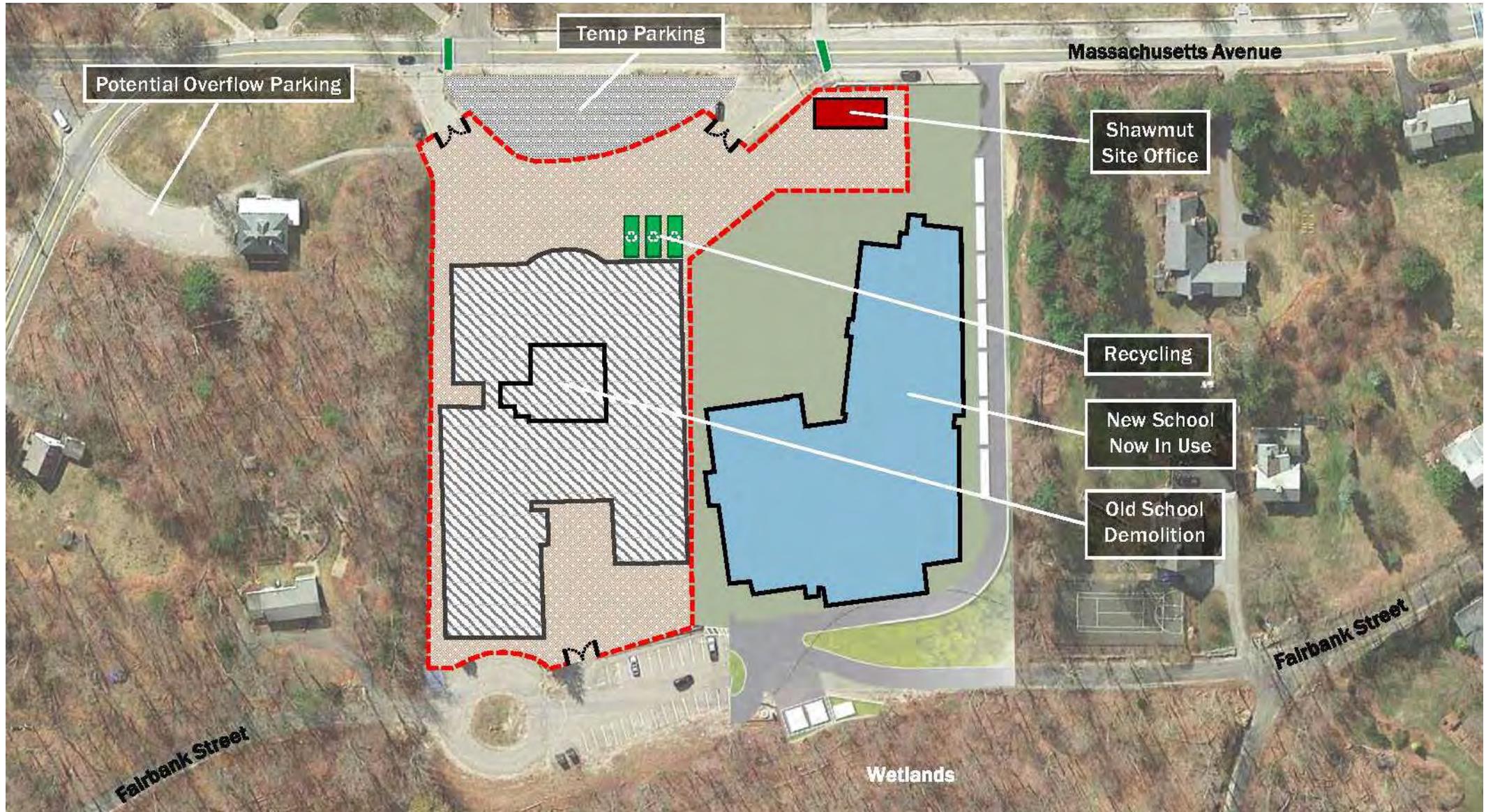
Not Just Building a Building ... Building a New Learning Experience for Future Leaders

Site Logistics

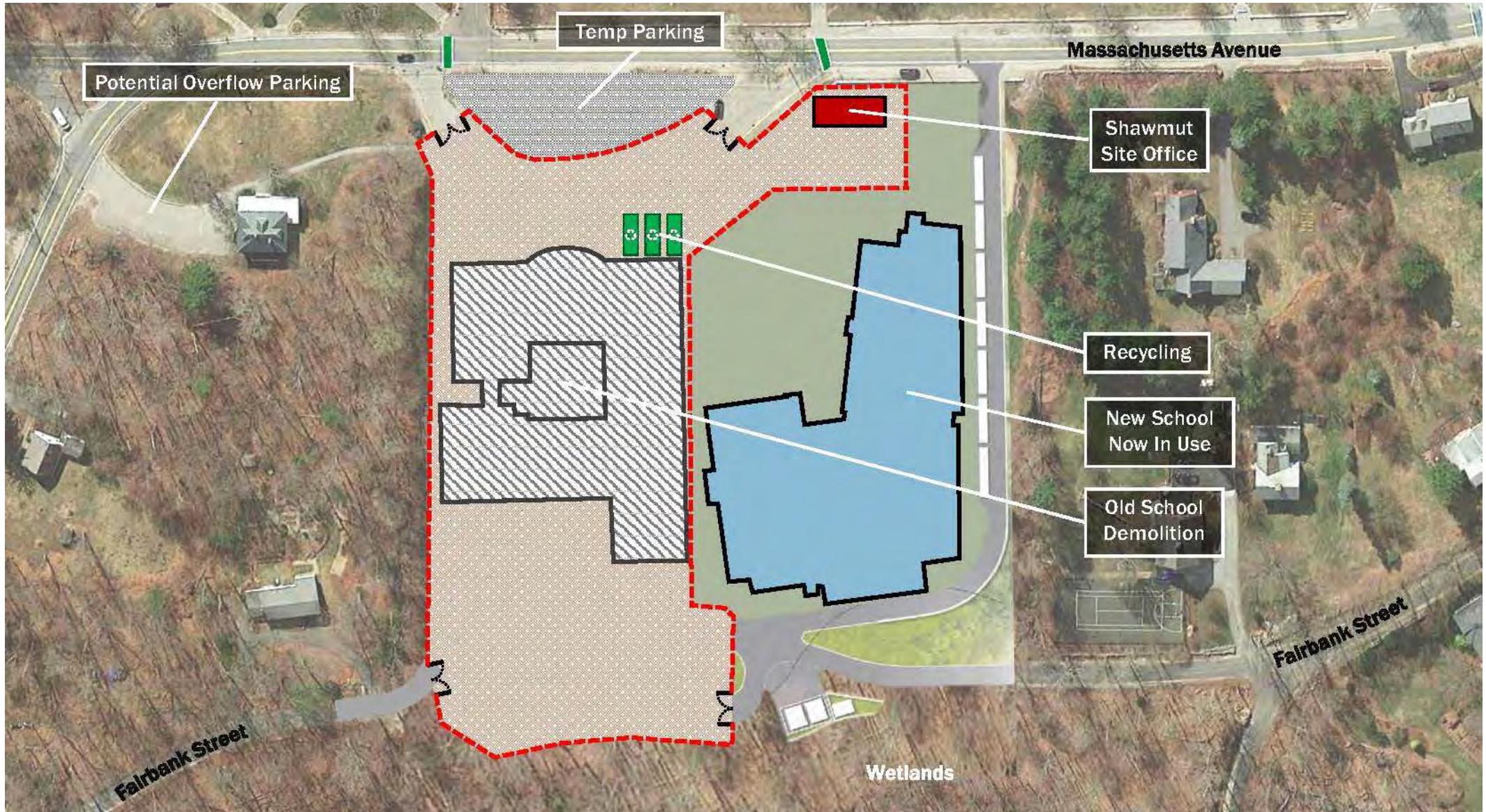
Existing Conditions



Phase – 2A: April 2021 – May 2021



Phase – 2B: June 2021 – August 2021





Q&A / Discussion