FULLER MIDDLE SCHOOL FEASIBILITY STUDY

School Committee Meeting March 12, 2018





Agenda

- 1. Introductions
- 2. Process and Schedule
- 3. Existing School Conditions
- 4. Educational Programming
- 5. Pre-Concept Options
- 6. Next Steps
- 7. Questions



SMMA

PROJECT MANAGEMENT

Feasibility Study Scope, Process and Schedule





Feasibility Study Scope

- MSBA is an independent public authority that administers and funds a program for grants to eligible cities, towns, and regional school districts for school construction and renovation projects.
- MSBA mandates a multi-step rigorous study and approval process
- MSBA requires formation of a School Building Committee to oversee the study and project on behalf of the community

PROJECT MANAGEMENT

SMMA



Feasibility Study Scope

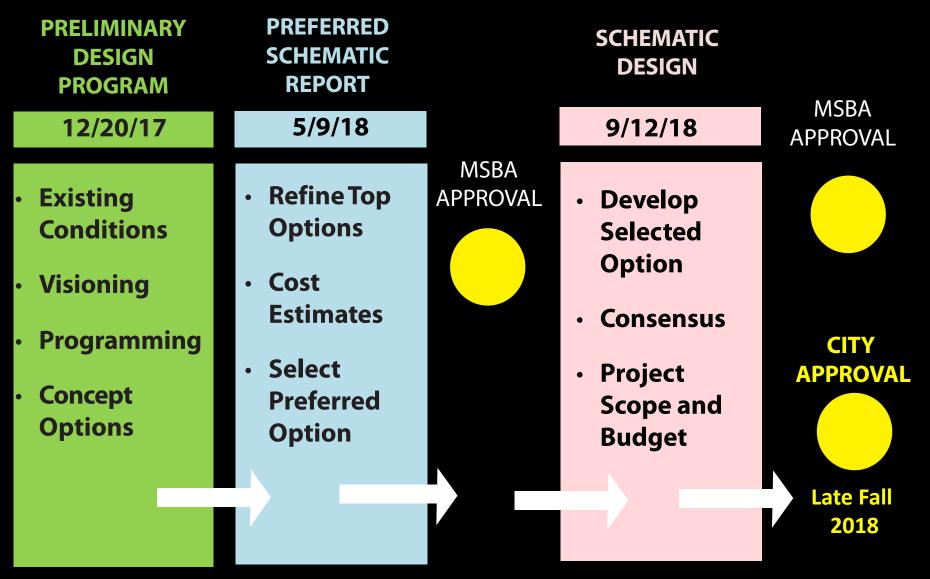
The MSBA has agreed to participate with Framingham in a feasibility study for a 630 Student Middle School for Grades 6-8.

Study Scope includes:

- Existing Conditions Review
- Educational Program
- Design Alternatives
 - Renovation
 - Renovation / Addition
 - All New Construction
- Cost Estimates



MSBA Feasibility Study Process and Schedule



Jonathan Levi Architects

PROJECT MANAGEMENT SMMA

Completed Project Milestones February 2013 Pre-Feasibility Study Completed November 2015 Framingham Submits Proposal to MSBA April 2016 <u>Historic Enrollments Study Completed</u> June 2016 K-8 Educational Visioning Completed October 2016 Framingham Town Meeting approves Feasibility Study Funding Framingham and MSBA Agree on December 2016 Student Design Enrollment February 2017 MSBA Invites Framingham to Feasibility Study

PROJECT MANAGEMENT SMMA



Completed Project Milestones

June 2017Framingham Retains Owner'sProject Manager

September 2017 Framingham Retains Architect

November 13, 2017 Community Forum No. 1

November 27, 2017 Community Forum No. 2

December 20, 2017 Preliminary Design Program
Submitted to MSBA

February 6, 2018Presentation to City CouncilFebruary 12, 2018Community Forum No. 3



PROJECT MANAGEMENT SMMA

Defining the Need





The Need:

- Need a long-term solution to resolve deteriorating school building
- Provide educational spaces to meet MSBA standards
- Update the layout to meet 21st century
 Visioning Session goals

<u>The Goal</u>

 Cost Effective, Sustainable and Educational Appropriate School with the least impact to the ongoing education of the students





PROJECT MANAGEMENT SMMA



Energy Code

Envelope

Accessibility

Structural

Mechanical, Electrical and Plumbing Systems

Hazardous Materials





PROJECT MANAGEMENT SMMA

Educational Programming



Fuller Middle School Feasibility Study School Committee Meeting March 12, 2018

DESIGN PRINCIPALS

Fuller Middle School is in its fourth year of STEAM (Science, Technology, Engineering, Arts and Mathematics)

- Transdisciplinary Instruction Connect multiple content areas by linking concepts and skills with a real-world context. Encourage and support Inquiry.
- Personalized and Collaborative Learning Teach students to take charge of their own learning with "hands-on" projects that can correspond with their interests and needs.
- Whole Child, Whole Community Actively support emotional and social foundations to improve academic success.

Jonathan Levi Architect

PROJECT MANAGEMENT SMMA

DESIGN PRINCIPALS

- Visible Learning Inspire students to learn from each other through student collaboration, presentations, demonstrations, and ongoing works-in-progress.
- Community and Civic Hub Continue existing use as central location for meetings, adult learning, school productions and recreational activities.
- Adaptability This building will need to meet Framingham's future needs, so must be versatile enough to accommodate different teaching methods, including traditional ones.



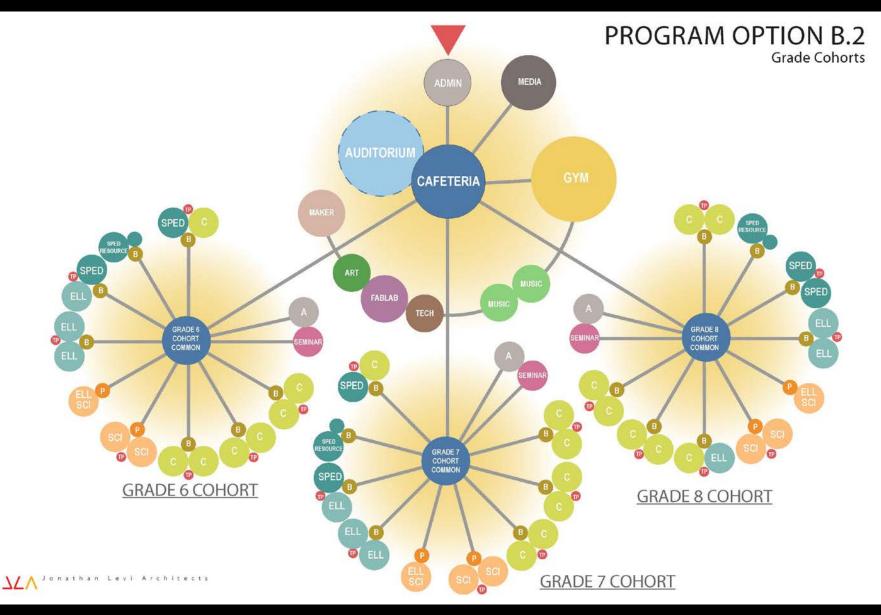
PROJECT MANAGEMENT SMMA

Preliminary Design Options





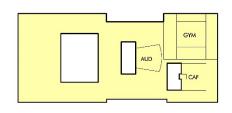
Alternatives





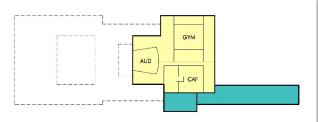
PROJECT MANAGEMENT SMMA

Alternatives



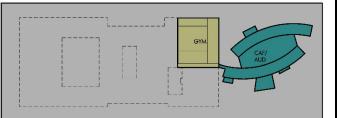
OPTION 0.0 - EXISTING

0.0 'Repair Existing': Minimum required repairs and code upgrades to the existing structure



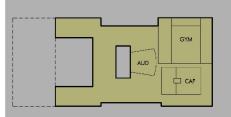
OPTION A - ADD/RENO

A 'Addition/Renovation': Retention and Upgrade of existing auditorium, gymnasium/locker and cafeteria areas. Conversion of existing calteria to multi-use dining and learning. Addition of new attached two story classroom and administration wing at trant and east of existing cafeteria. Swing space required.



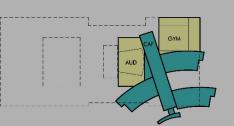
OPTION C.1 - FOLDED HANDS ADD/RENO

C.1 'Folded Hands Addition/Renovation: Retention and renovation of existing gymnasium/locker room only. Remaining scope to be altached new three story split level entry construction with stepped convertible commons/auditorium/catteria and balconyaccessed classrooms. Occupied phased construction required.



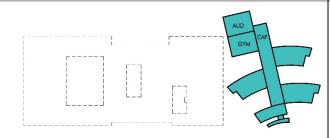
OPTION 0.1 - ADD/RENOVATION

0.1 'Addition/Renovation: Partial demolition of surplus floor areas and complete gut renovation and reconstruction of remaining areas to meet code and to address, as best as possible, the educational program. The later includes conversion of the existing cafeteria into a multi-use dining and learning space. Swing space required.



OPTION B.1 - TREE BRANCHES ADD/RENO

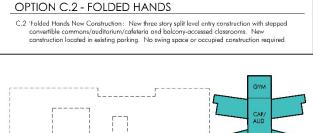
B.1 "Tree Branches Addition/Renovation": Retention and renovation of existing auditorium and gymasium/Jacker room. Remaining scope to be attached new two story construction with central learning commons/cafetria spine and branching academic wings and courtyards. Swing space required.



OPTION B.2 - TREE BRANCHES

B.2 Tree Branches New Construction': New two story construction with central learning commons/catterior spine, new replacement sloped-floor auditorium and branching academic wings and courtyrards. New construction located in existing parking. No swing space required

PROJECT MANAGEMENT SMMA



OPTION D - BUTTERFLY

D Butterfly: New two story construction with classroom wings radiating off stepped convertible commons/auditorium/cafeteria/gymnasium. New construction located in existing parking. No swing space or accupied construction required.

> Fuller Middle School Feasibility Study School Committee Meeting March 12, 2018

AUD



Pre-Concept Alternatives Evaluation Matrix

FULLER MIDDLE SCHOOL Pre-Concept Options Evaluation Matrix									
RATINGS: + Advantageous -o- Neutral - Disadvantageous - Very Disadvantageous		Voted to be F	Removed from	Consideratior	n by School Bui	lding Committ	ee		
	Option 0.0 Repair to Code Baseline	Option 0.1 Renovation	Option A Add / Reno With Auditorium	Option B.1 Tree Branch Add / Reno	Option B.2 Tree Branch New Constr. With Auditorium	Option C.1 Folded Hands Add / Reno	Option C.2 Folded Hands New Constr. No Auditorium	Option D Butterfly New Constr. No Auditorium	Comments
Project Criterion									
Total Project Cost			-	-	-0-	-	+	+	See costs below
Schedule			-	-	+	+	+	+	Renovation options will require phasing and additional construction time. Swing space requires additional time
Swing Space or Occupied Construction			-	-	+	4	+	+	New school outside existing footprint requires no swing space
Construction Impact to Education		÷÷	-	-	+	-0-	+	+	Swing space will be disruptive and smaller than current Fuller use
Construction Impact to Campus and Neighbors	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	Swing space / trailers will be disruptive to neighbors. New Construction on east will require temporary parkin
Educational Program Accommodation		-	-0-	+	+	+	+	+	Options vary on ability to provide 3 appropriate cohort locations and identity
Flexibility		-	-	+	+	÷	+	+	New construction would be designed for flexible use and improved MEP accessibility
Open Space /Building Massing / Footprint		-	-	-0-	+	-0-	+	+	Options built on east parking would open very large and flexible open area on existing Fuller footprint
Academic Campus Coordination	-	-	-	+	+	÷	+	+	Locating Fuller closer to Farley and McCarthy improves ability to create identifiable campus
Natural Light and Views			-0-	-0-	+	+	+	+	"Pancake" massing creates interior rooms with limited access to windows
Risk			-	-	+	-0-	+	+	Options requiring renovation and/or swing space have more inherent risk due to unforeseen conditions
Community Use	-0-	+	+	+	+	+	+	+	All alternatives allow community use. New Construction options allow increased access to playfields.
Total GSF	195,000	163,000	160,000	164,000	155,000	149,000	145,000	145,000	
Swing Space Cost (\$Million)	\$6	\$6	\$6	\$6	\$0	\$0	\$0	\$0	Option 0 and 0.1 would require swing space at Farley. Options A and B.1 could have swing space in Fuller. Other options require no swing space.
Order of Magnitude Project Cost (\$Million)	\$125	\$123	\$114	\$116	\$95	\$107	\$89	\$89	This existing building is particularly expensive to renovate due to its construction assembly and degree of deterioration
MSBA Share		\$53	\$49	\$50	\$40	\$45	\$41	\$41	
Framingham Share	\$131	\$76	\$71	\$72	\$55	\$62	\$48	\$48	

PROJECT MANAGEMENT SMMA



Pre-Concept Alternatives

Option 0.0 – Renovation Existing Fuller renovated to full code compliance



PROJECT MANAGEMENT SMMA

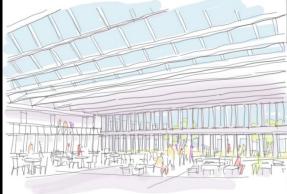


Pre-Concept Alternatives

<u>Option A - Renovation / Addition</u> Renovation of Existing Gym and Auditorium. Remainder of Building Demolished and Replaced with New Construction







Fuller Middle School Feasibility Study School Committee Meeting March 12, 2018

Jonathan Levi Architects

Pre-Concept Alternatives Option B.2 - New Construction With new Auditorium







Fuller Middle School Feasibility Study School Committee Meeting March 12, 2018



Pre-Concept Alternatives

<u>Option C.2 – New Construction</u> Building Demolished and Replaced with New Construction







Fuller Middle School Feasibility Study School Committee Meeting March 12, 2018

Jonathan Levi Architects

Pre-Concept Alternatives Option D – All New Construction







Fuller Middle School Feasibility Study School Committee Meeting March 12, 2018

Jonathan Levi Architects

Preliminary Cost Analysis





State Reimbursement

- MSBA will reimburse all Eligible Costs, at a Base Rate of 57.05% plus incentive points for an approved project if accepted by the voters of Framingham
- Example of Ineligible Costs include:
 - Site Costs over 8%
 - Building Costs over \$333/SF
 - Asbestos Flooring abatement
 - FF&E/Technology costs over \$2,400 per student
 - Legal Fees, Moving Expenses, construction contingencies over 1% for new construction or 2% for renovation
 - Temporary Swing space
 - Auditoriums in Middle Schools

State Reimbursement Incentives

The MSBA provides incentives to reimburse up to an estimated additional **4.48% to 6.25%** of eligible costs. The incentives fall under the following categories:

- Energy Efficiency (2%)
- Renovation (1.77%)
- Maintenance Programs (1.48%)
- CM at Risk project delivery (1%)



Preliminary Cost Analysis

	Option 0.0	Option A	Option B.2	Option C.2	Option D
	Repair to	Add / Reno	Tree Branch	Folded Hands	Butterfly
	Code		New Constr.	New Constr.	New Constr.
	Baseline	With	With	No Auditorium	Νο
		Auditorium	Auditorium		Auditorium
Swing Space Cost (\$Million)	\$6	\$6	\$ 0	\$ 0	\$ 0
Order of Magnitude Project Cost (\$Million)	\$125	\$114	\$95	\$89	\$89
MSBA Share \$0		\$49	\$40	\$41	\$41
Framingham Share	\$131	\$71	\$55	\$48	\$48



PROJECT MANAGEMENT SMMA

NEXT STEPS

School Building Committee to continue to refine the Design Options and Costs. The SBC meetings are every two weeks. Meetings and agendas are posted on the FPS website.

- School Committee Meeting March 7, 2018
- April 2, 2018 Community Forum #4
- April 17, 2018 Follow-up City Council Meeting
- April 25, 2018 Follow-up School Committee Meeting
- May 9, 2018 Submit Preferred Schematic Report (PSR) to MSBA
- September 12, 2018 Submit Schematic Report (SD) to MSBA
- October 31, 2018 MSBA board meeting to approve project
- Late Fall 2018 City appropriation voting

JA Jonathan Levi Architect

NEXT STEPS

Community Resources

Project Website: www.fullerbuildingproject.com



project management SMMA

Questions and Comments



Fuller Middle School Feasibility Study School Committee Meeting March 12, 2018