





## SMS

SCHOOL

Project Team & Introductions

**School Committee** 

**Christopher Godet, Chair** Michael McDonald, Vice Chair Victor Machado, Jr. **Robert Gaw Shauna Geary** 



### **School Building Committee**

Resident & Former School Committee Member Michael Botelho

**Richard Brown** Town Administrator

Middle School Teacher Kathleen Byers Middle School Principal

**Dr. Pauline Camara** Supervisor of Buildings and Grounds **Carlos Campos** 

> Chairman of School Committee **Chris Godet**

Resident & Former Water Department Superintendent **Robert Lima** 

Chairman of Building Committee & School Committee Member Victor Machado, Jr.

Chairperson of Board of Selectmen **Holly McNamara** 

**Steven Medeiros** Resident & Project Architect

Nicole Mello Middle School Content Coordinator

Middle School Teacher **Cassey Monte** 

Nick Raffa Advisory and Finance Committee Chairman

Resident & Licensed Massachusetts Construction Supervisor **Kevin Scanlon** 

**Jeffrey Schoonover** Vice Chairman of Building Committee & Superintendent of Schools **Ronald Tarro** 

Director of Business and Finances

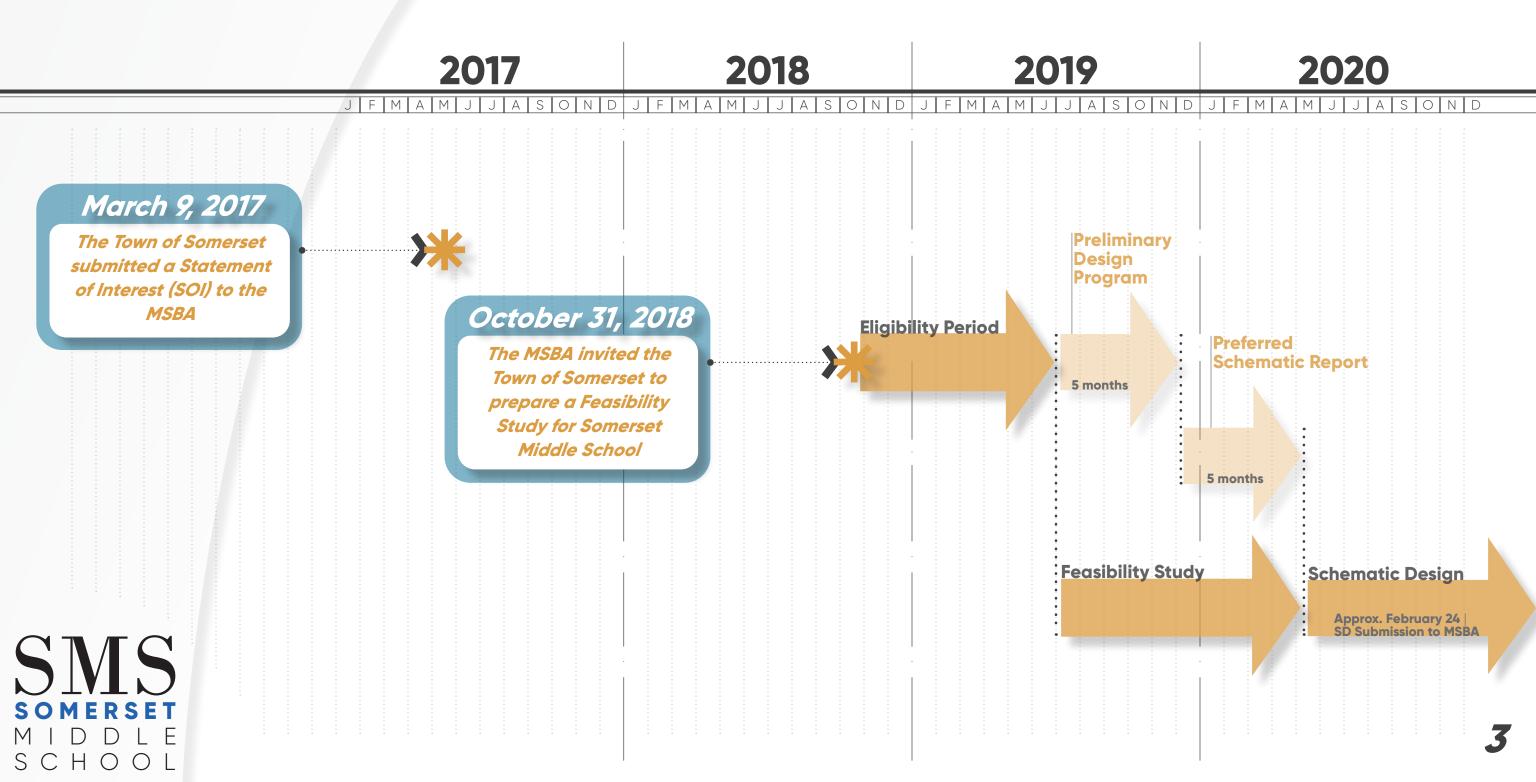
Elizabeth Haskell Director of Curriculum and Assessment

Middle School Assistant Principal Ira Schaefer

#### **Board of Selectmen**

Holly McNamara, Chair **Steven Moniz Lorne Lawless** 

#### **SMS** | Project Timeline





### Massachusetts School Building Authority

Funding Affordable, Sustainable, and Efficient Schools in Partnership with Local Communities

## 2017 MSBA Statements of Interest Intake (Core Program)

Number of SOI's submitted in 2017



## Somerset has an opportunity to receive a Grant reimbursement from the MSBA

to pay costs associated with a new school facility project.

Number of SOI's invited into MSBA Program (Eligibility Period)

15

Approximate percentage of annual Core Program entrants

# What are the initial requirements to receive a Grant from the MSBA?

Complete a comprehensive Feasibility Study in collaboration

with the MSBA to determine the

most fiscally responsible and educationally appropriate long-term solution.



#### Over the past 18 months,

Somerset has been completing this comprehensive Feasibility Study & Schematic Design with

very specific guidance from the MSBA.

## Over 15,000 collective hours

of meetings, planning, design and discussion by Somerset analysis, investigation, and reporting by the engineering, design, educational team, and the MSBA!

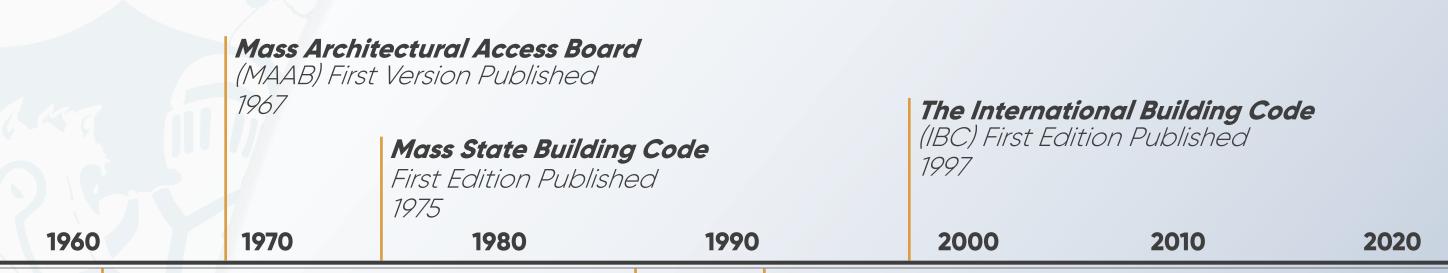
- Haz-Mat Inspection & Report
- Phase 1 Environmental Assessment
- Plumbing Evaluation
- Electrical Evaluation
- Technology Systems Evaluation

- Educational Program
- Visioning Program
- Building Evaluation
- Structural Evaluation
- Heating & Ventilation Evaluation
- Space Summary Spreadsheets

- Site Evaluation
- Geotechnical Investigations
- Site Utility Review
- Permitting Review
- Comparison Matrix
- Sustainable Design Review



## **Existing Middle School Building Constructed prior to Codes & Regulations**



1963

Construction began

1965
Building is occupied

1969

6th Grade wing was constructed

**ADA Regulations** 

were issued 1991

Americans with Disabilities Act

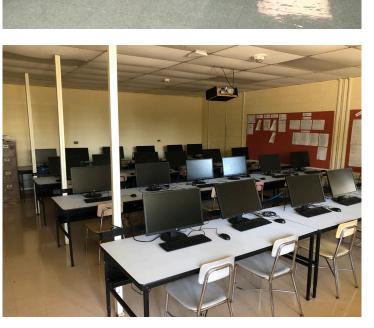
(ADA) was established 1986-87



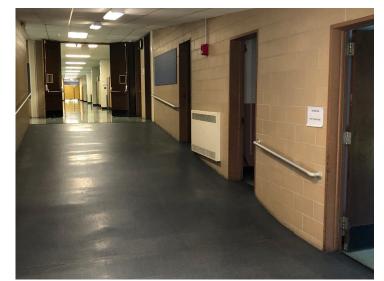












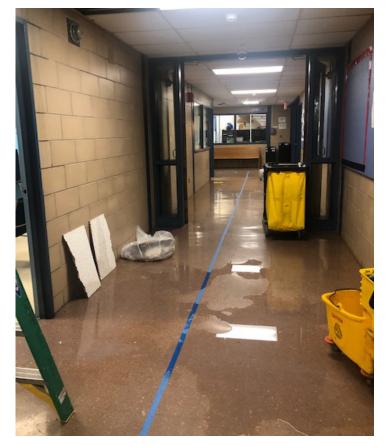


Exterior Envelope Deficiencies

Code Compliance Deficiencies

Building Systems Deficiencies

**Educational Deficiencies** 















Recent Water Infiltration

Code Compliance, Building System, and Educational Deficiencies

## Improvements & Repairs to SMS

	Roof Projects		Miscellaneous Indoor Projects
2004	Roof replacement	1995	Remove all carpet and install VCT tile
2019	Replace five rooftop exhaust units	1999	Replace boiler with aerco boiler
2015	Solar array installation	2004	Install two ADA-compliant bathrooms
		2015	Music room 44 renovation/wall replacement
 	Auditorium	2017	Locker replacement
2014	Curtain replaced with the curtain from SBRHS	2017	Wireless clock replacement
2016 2016	Ceiling was repainted and mold removed Seats refurbished	2015	Main office/ guidance suite rest rooms flooding issue resolved
2014	PA system replaced with the SBRHS PA	2019	Student dining room tables replaced with the Somerset High School dining tables
	Media Center	2015	Main foyer floor tiles replaced and removal/abatement of
2018	Carpet replaced, New air & heat conditioners		asbestos tiles
0000	installed, walls painted	2019	Sub separate classrooms added with various safety
2020	All new ceiling tiles in library	0.047	upgrades
2020	Mold remediation	2013	Electrical upgrades in 6th grade area
		2010	Sinks replaced in student restrooms
 201/	Technology/Security	Ongoing	Repainting classrooms and hallways
2016	Technology infrastructure updates	2013-2015	Lighting in the building changed to energy efficient lighting
2012	Installation/upgrade of security cameras	2015	Installed boiler controls
2018	Main office relocated along with safety		Missallan sava Ovtology Dusingto
2010	vestibule installed	1007	Miscellaneous Outdoor Projects
2019	Replacement of a few external doors	1997	Repair all control joints on outside building
		1997	Remove oil tanks in ground
		2001	Resurface parking lot
		2000 2020	Install ADA-compliant ramp going to/from grade 6 area
		2020	Fish pond in the courtyard was refurbished

Remove rotted trees from courtyard and other areas

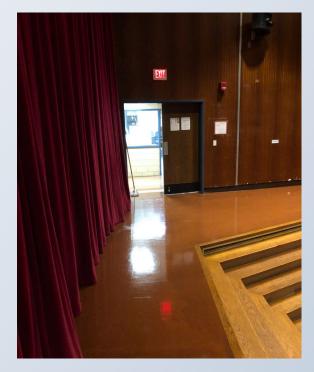


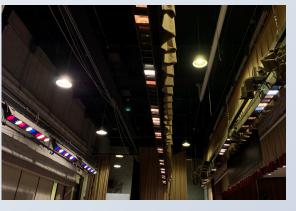
## Salvaged Equipment from SBRHS

- Stage Curtains
- Student Dining Tables
- Sound & Lighting System in Auditorium













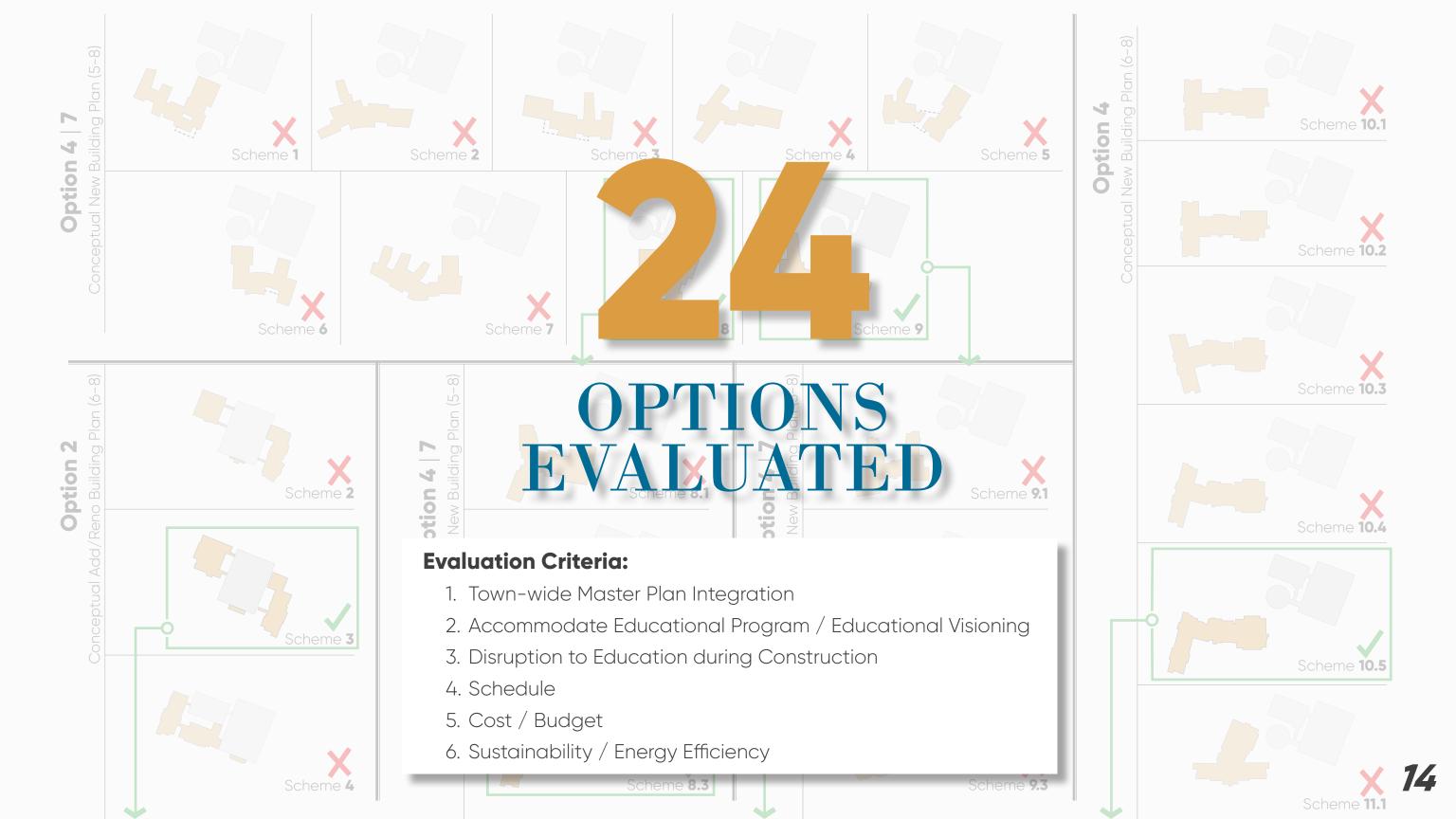


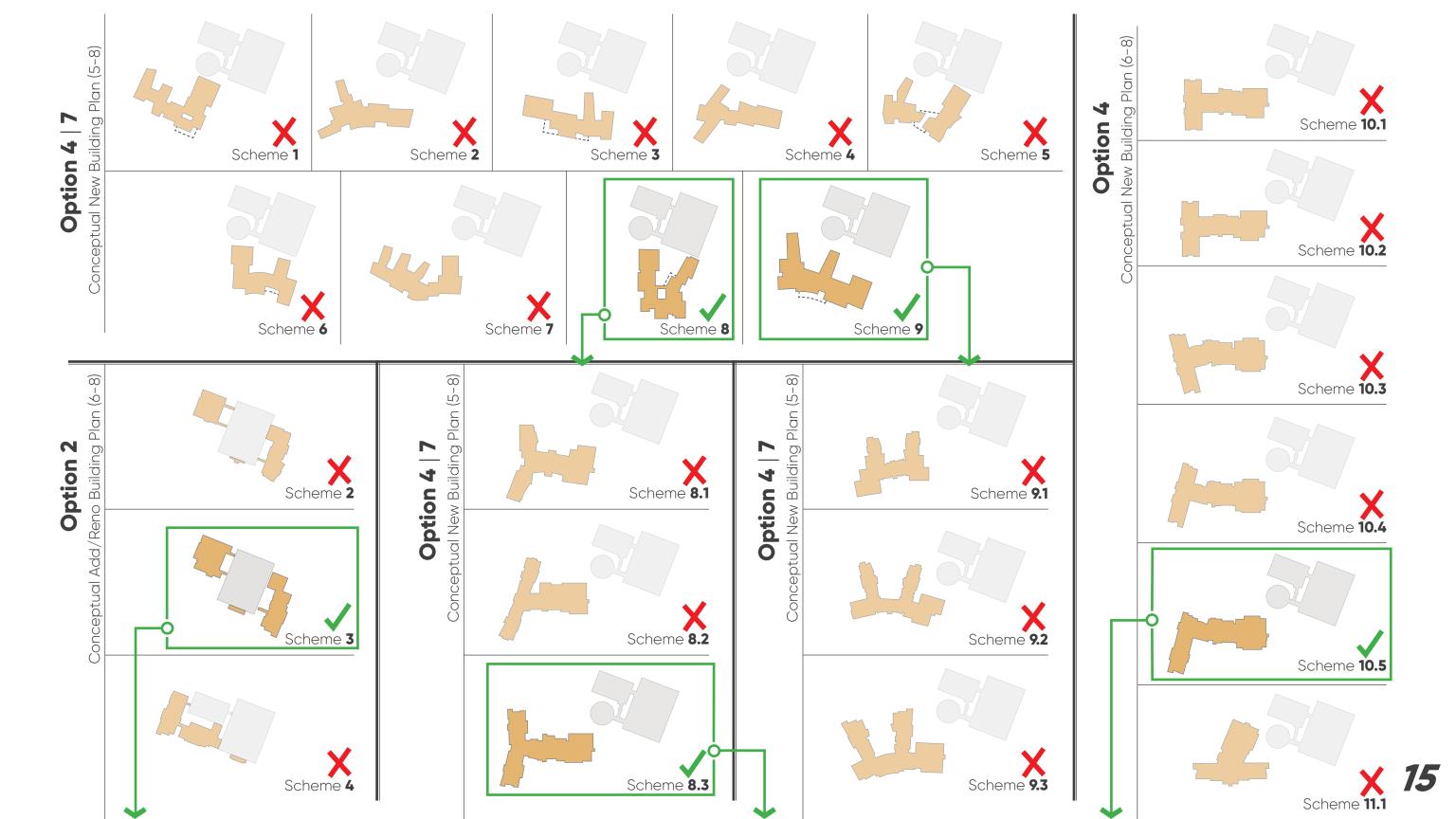
## The School Building Committee Evaluated Numerous Building Options

**Somerset Middle School Preliminary Options** 6-8 6-8 6-8 Base Repair Add/ Add/ New Reno Reno Only Existing Auditorium, Stage, & Lecture Hall Remains Renovated 5-8 5-8 5-8 5-8 Add/ Add/ New Reno Reno Only Existing Auditorium, Stage, SINS SOMERSET MIDDLE & Lecture Hall Remains Renovated Preliminary Evaluation of Alternatives **Options** 

SCHOOL

13





## **Preliminary Evaluations of Alternatives**

For comparative purposes only

	•							
	PDP Preliminary Design Program	PDP Preliminary Design Program	PSR Preferred Schematic Report	PDP Preliminary Design Program	PSR Preferred Schematic Report	PSR Preferred Schematic Report	PDP Preliminary Design Program	PSR Preferred Schematic Report
	Option 1	Option 2	Option 2	Option 4	<b>Option 4</b>	Option 4	Option <b>7</b>	<b>Option 7</b>
	Base Repair (Code Updates Only)	6-8 Add/Reno	Scheme 3	6-8 New Construction	Scheme 8.4	Scheme 10.5	5-8 New Construction	Scheme 8.3
New Construction GSF	N/A	<b>75,000</b> SF	<b>59,500</b> SF	<b>133,481</b> SF	<b>131,900</b> SF	<b>131,900</b> SF	<b>158,205</b> SF	<b>154,800</b> SF
Renovation GSF	<b>129,000</b> SF	<b>74,000</b> SF	<b>79,500</b> SF	<b>0</b> SF	<b>0</b> SF	<b>0</b> SF	<b>0</b> SF	<b>0</b> SF
Total GSF	<b>129,000</b> SF	<b>149,000</b> SF	<b>139,000</b> SF	<b>133,481</b> SF	<b>131,900</b> SF	<b>131,900</b> SF	<b>158,205</b> SF	<b>154,800</b> SF
Hard Costs (Approx.)	Unknown	\$71,000,000	\$73,800,000	\$66,500,000	\$68,500,000	\$68,000,000	\$79,500,000	\$76,500,000
Soft Costs (Approx.)	Unknown	\$16,000,000	\$16,500,000	\$15,500,000	\$15,500,000	\$15,500,000	\$18,500,000	\$17,500,000
Occupied Phase Const. Premium	Unknown	\$3,500,000	included above	\$ <b>0</b>	\$ <b>o</b>	\$ <b>o</b>	\$ <b>o</b>	<b>\$0</b>
Subtotal Individual Project Cost (Range)	Unknown	\$88 - \$93 million	\$88 - \$93 million	\$80 - \$85 million	\$ <b>82</b> – \$ <b>87</b> million	\$81.5 - \$86.5 million	*\$95 - \$100 million	\$95 - \$100 million
	•							
Approx. Construction Schedule	Unknown		<b>42</b> months	24 months	<b>24</b> months	<b>24</b> months	<b>36</b> months	<b>36</b> months



## Why Renovation is NOT an Option



#### Base Repair (Renovation)

**ONLY** Code Required Upgrades to existing Somerset Middle School

- **DOES NOT** address long-term goals of the Town-wide Masterplan
- **DOES NOT** address educational space deficiencies
- **DOES NOT** address poor existing building natural daylighting / indoor environmental quality
- **DOES NOT** address poor existing building organization
- **DOES NOT** address existing site stormwater drainage issues
- **DOES NOT** address deficiencies in site amenities/outdoor educational space/playfields
- **EXTENDED** educational disruption during construction
- **EXTENDED** phased occupied construction timeline

#### 6-8 Add/Reno

Comprehensive renovation of existing middle school and construction of new additions

- Proposed Building and Site design **DOES NOT** fully align with Educational Vision and Educational Program
- **Inefficient** existing building organization does not result in ideal security, sightlines, wayfinding, and natural oversight.
- **Inefficient** existing building organization requires a larger, less efficient overall building footprint.
- Improved acoustics, ventilation, indoor environmental quality. However, daylighting and views to the exterior (nature) not ideal as a result of existing building organization.
- Inefficient existing building organization requires a larger, less efficient overall building footprint.
- **Resolves** site vehicular circulation and parking challenges
- Maintains and re-constructs existing site amenities and playfields
- Integrates long-term goals of the Town-wide Masterplan
- **Extended** educational disruption during construction
- Occupied multiphase construction project that requires educational swing space.
- Most Expensive solution

Construction Schedule Approx. 42 months + site development

Construction of a new 6-8 middle school at 124,200 GSF

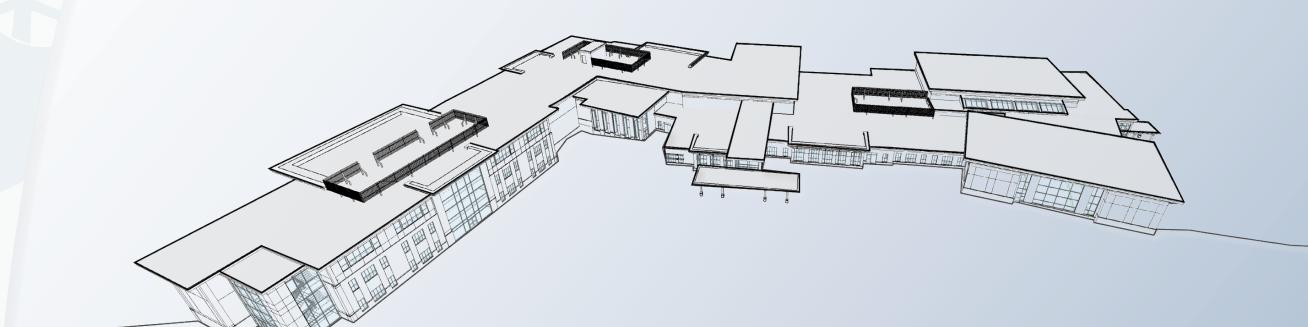
- Proposed Building and Site design aligns with Educational Vision and Educational Program
- **Improved** Security, Sightlines, Wayfinding, and natural oversight.
- Improved acoustics, daylighting, ventilation, indoor environmental quality, and views to the exterior (nature)
- Most Sustainable, energy efficient option (high performance building envelope and building systems)
- **Most Efficient** long-term operating costs
- Fully integrated technology, including outdoor classrooms.
- Academic core allow each grade level to be clearly divided into two neighborhoods while allowing easy access to specialized spaces
- Integration of Learning Commons, Innovation Labs, and Collaboration Spaces, providing a project-based learning style, focusing on critical thinking and problem solving, encouraging exploration, communication, collaboration, and creativity.
- **Expanded** and reconfigured parking for better efficiency and access to the new building and playfields
- **Expanded** outdoor recreational and educational space, creating a universally accessible site, playfields, building, and campus
- **Resolves** existing parent drop-off and pickup challenges clear separation of onsite vehicular, bus, and pedestrian pathways
- Integration of the recently updated Town-wide Economic Master Plan

Construction Schedule Approx. 24 months + site development

SMS SOMERSET Preliminary Evaluation of Alternatives

## Conclusion by Somerset & the MSBA:

Construction of a **NEW 124,200 GSF** middle school, serving grades 6-8, is the right-sized, most fiscally responsible and educationally appropriate solution to creating a safe, sound, and sustainable middle school learning environment and community asset for the next **50** years.



## **Benefits of a New School**

#### **Educational**

- Improved acoustics, daylighting, ventilation, indoor air quality, and views to the exterior (nature)
- Access to modern educational technology
- State-of-the-Art Performance Auditorium and Music Spaces
- Appropriate quantity of and sized General & SPED classrooms, therapy, and support spaces
- Integrated grade-level Project Labs
- Using the site topography to create expanded outdoor educational and performance spaces
- Universally accessible building and amenities

#### Incorporation of Passive & Active security measures

- Clearly Identifiable and Visible Site and Building Entrance
- Natural site surveillance clear visual sightlines and program adjacencies
- Clear Separation of on-site vehicular, bus, and pedestrian pathways
- Integration of interior and exterior surveillance cameras (CCTV)
- Clear delineation between "Public" & "Private" spaces
- 100% wireless access coverage in building & outdoor educational spaces



SOMERSET C

## **Benefits of a New School**

#### COVID-19 Response

- Multiple building points of entry for distributed student movement
- Numerous outdoor classroom and performance spaces
- Flexible spaces to accommodate fluid modifications to classrooms
- Improved Indoor Air Quality | Operable Windows, Ventilation system, Indoor Air Quality Assessment, Low-emitting materials specified, & Building walk-off mats
- Hand Cleaning Awareness | Signage, Sinks in every classroom, Motion Sensors Faucets, Hand sanitizing stations throughout the building
- Proposed general classroom size larger than existing classrooms net square footage
- Easy Cleaning Surfaces (smooth, streamlined, high-touch surfaces)
- Integration of the recently updated Town-wide Economic Master Plan
- New roadways, sidewalks, parking, etc. as part of the renovation of the entire site
- Expanded and re-configured parking for **better efficiency and access to the new** building and playfields
- Universally accessible site, playfields, and building
- Positive contributions to sustainability & climate change goals
- High Performance Building Envelope
- High Efficiency Building Mechanical and Lighting Systems (100% LED)
- On-site renewable energy sources
- 9 Foundations of a Healthy Building (Harvard T.H. Chan | School of Public Health)
  - Improved ventilation, air quality, thermal health, water quality, moisture control, dust & pests, acoustics & noise, lighting systems, safety & security

#### Community

#### Energy Efficiency & Healthy Building Design

## SINS SOMERSET MIDDLE SCHOOL

























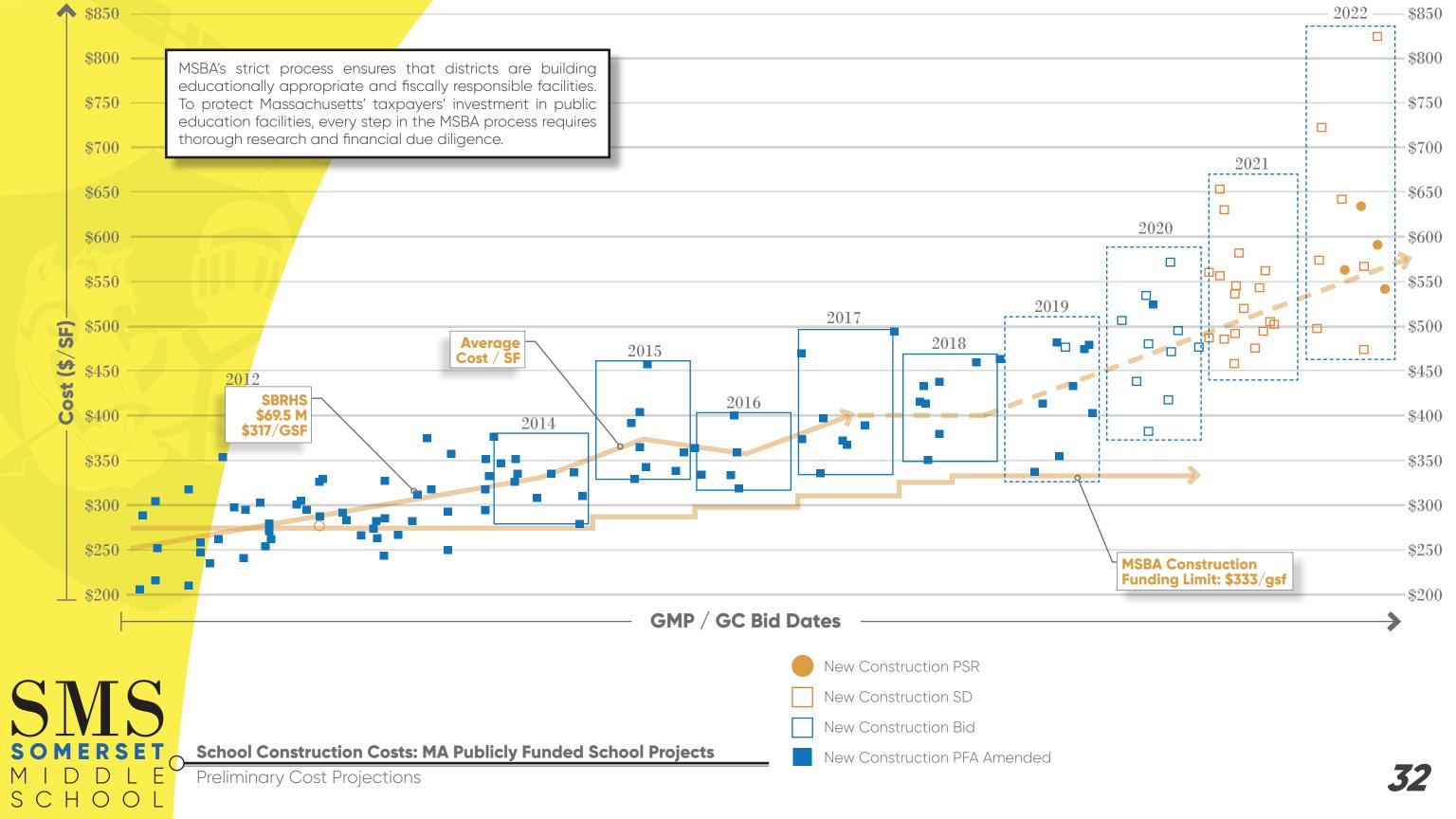


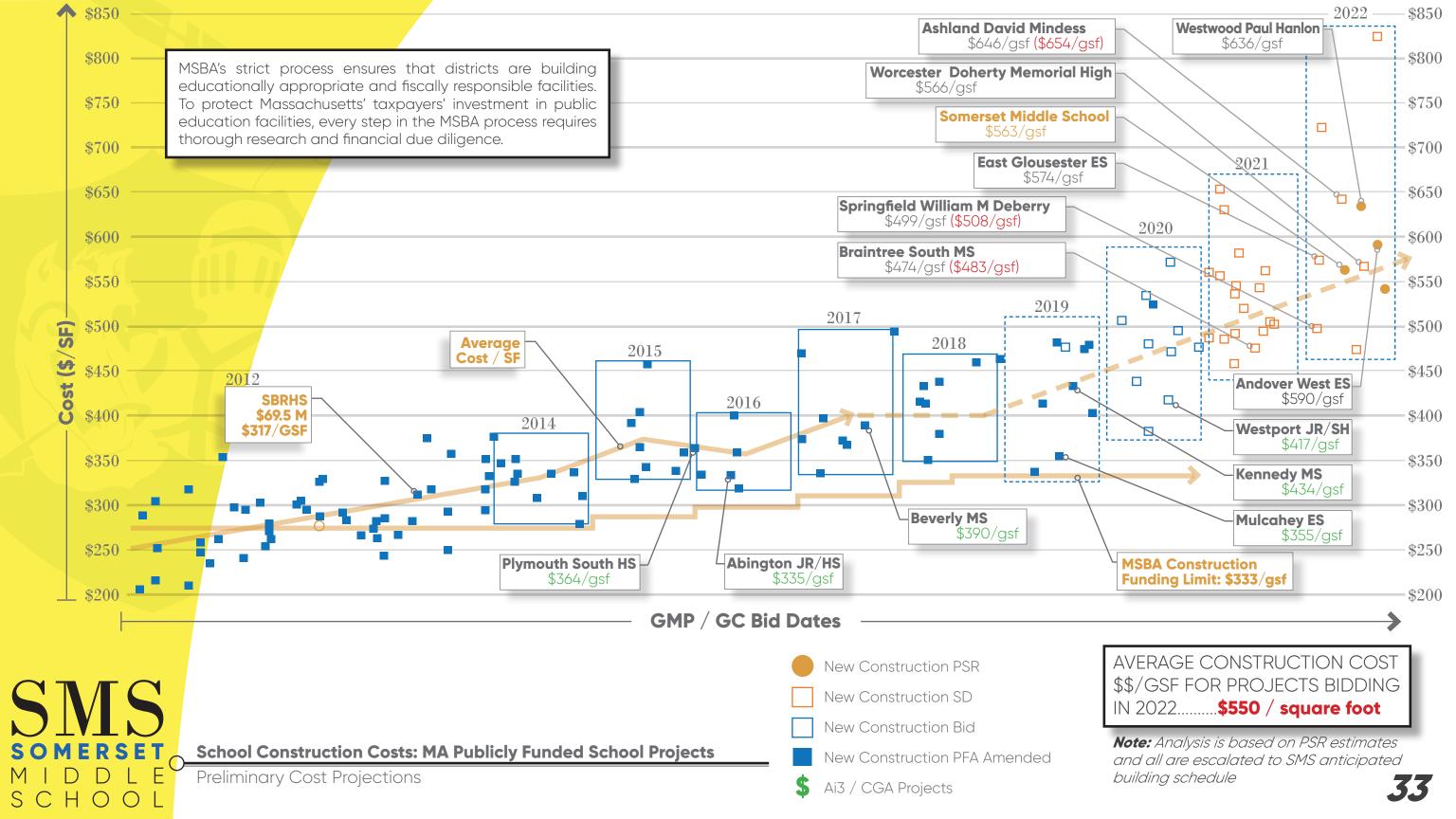


## Cost Conscious Design Approach:

Throughout the Feasibility Study and Schematic Design process, the School Building Committee, School Committee, and Board of Selectmen have been **mindful of the financial impact the project** will have on the Somerset taxpayers, while planning a school that will serve the town for the next 50+ years. The Committee's have explored multiple ways to reduce the cost of the project, all resulting in a lower project cost to taxpayers.

- Selection of Option 4 Scheme 10.5 (6-8 New Construction vs phased occupied renovation)
- Energy Efficiency Partnerships with local utility programs (NGRID, Liberty Gas): Energy Efficiency Rebates
- Proactive Building Maintenance Program (Additional 1.22% MSBA Reimbursement
- Sustainability / Energy Efficient Project (Additional 2% MSBA Reimbursement)
  - LEED (Leadership in Energy and Environmental Design) Certification
- Strategic positioning of the new building:
  - Building placement optimizing the existing topography
  - Building organization and orientation based on solar path (maximize natural daylighting while minimizing operating costs)
  - Building placement to reduce gas, electrical, and water services from Brayton Avenue and Read Street.
  - · Away from the existing building to reduce potential educational disruption during construction.
  - · Away from the existing building to reduce occupied construction phasing and construction timeline.
- Simplified and efficient organization of the new building floor plan
- Reduced footprint of the new building (via 3-story building)
- Stacked academic floor plan to simplify building structure and building constructibility
- Minimize Roof Transitions
- Use of cost effective, long lasting, durable, low maintenance materials. (Natural Stone, brick, cementitious panels, glass fiber reinforced panels (GFRP)





#### **Somerset Berkley Regional High School**





222,826 GSF

2012

Construction Cost \$69.5M - \$312/gsf

Total Project Cost \$82.8M - \$371/gsf

2022

Construction Cost \$122M - \$550/gsf

Total Project Cost \$144M - \$648/gsf

Average Construction Cost Projection for 2022: \$550 / square foot



**Conceptual Cost Projections: Somerset Middle School** 

## What is the ESTIMATED COST of the Proposed Project?

	Schematic Design
ign Phase	February 2021 Grades 6-8
	<b>124,200</b> GSF
Construction Cost	\$ <b>69,956,365</b> million
Total Project Cost	\$ <b>84,945,490</b> million
own Share	\$ <b>52,000,000</b> million
	Construction Cost  Total Project Cost  Town Share

Approximately

\$563 / square foot
Construction Cost
(Including Add Alt
#1 PV reinstall)

Estimates assume a construction start of Summer 2022

100% Schematic Design

<sup>1.</sup> Third party cost estimates are not represented as the final construction costs, as the information they are based on are Schematic Design Drawings.

<sup>2.</sup> Estimates assume public bidding under Chapter 149 (Design - Bid - Build) of the MGL.

## **Preliminary Tax Impact Analysis**

20 Y	EARS	3% INTEREST RATE				
CATEGORY	BASE	\$100,000 Pro	operty Value	\$311,000 Property Value		
CATEGORY		Per Year	Per Month	Per Year	Per Month	
TOTAL	\$85.0M		\$10	\$371	\$31	
FSA	\$800K <sup>1</sup>	\$120				
MSBA	\$32.9M	\$120				
TOWN	\$51.3M					
25 Y	EARS	3.25% INTEREST RATE				
CATEGORY	BASE	\$100,000 Property Value		\$311,000 Property Value		
CATEGORY	DASE	Per Year	Per Month	Per Year	Per Month	
TOTAL	\$85.0M		\$9	\$328	\$27	
FSA	\$800K <sup>1</sup>	\$105				
MSBA	\$32.9M	\$102				
TOWN	\$51.3M					
30 Y	EARS	3.5% INTEREST RATE				
CATEGORY	BASE	\$100,000 Property Value		\$311,000 Property Value		
CATEGORY		Per Year	Per Month	Per Year	Per Month	
TOTAL	\$85.0M		\$8	\$302	\$25	
FSA	\$800K <sup>1</sup>	¢07				
MSBA	\$32.9M	\$97				
TOWN	\$51.3M					

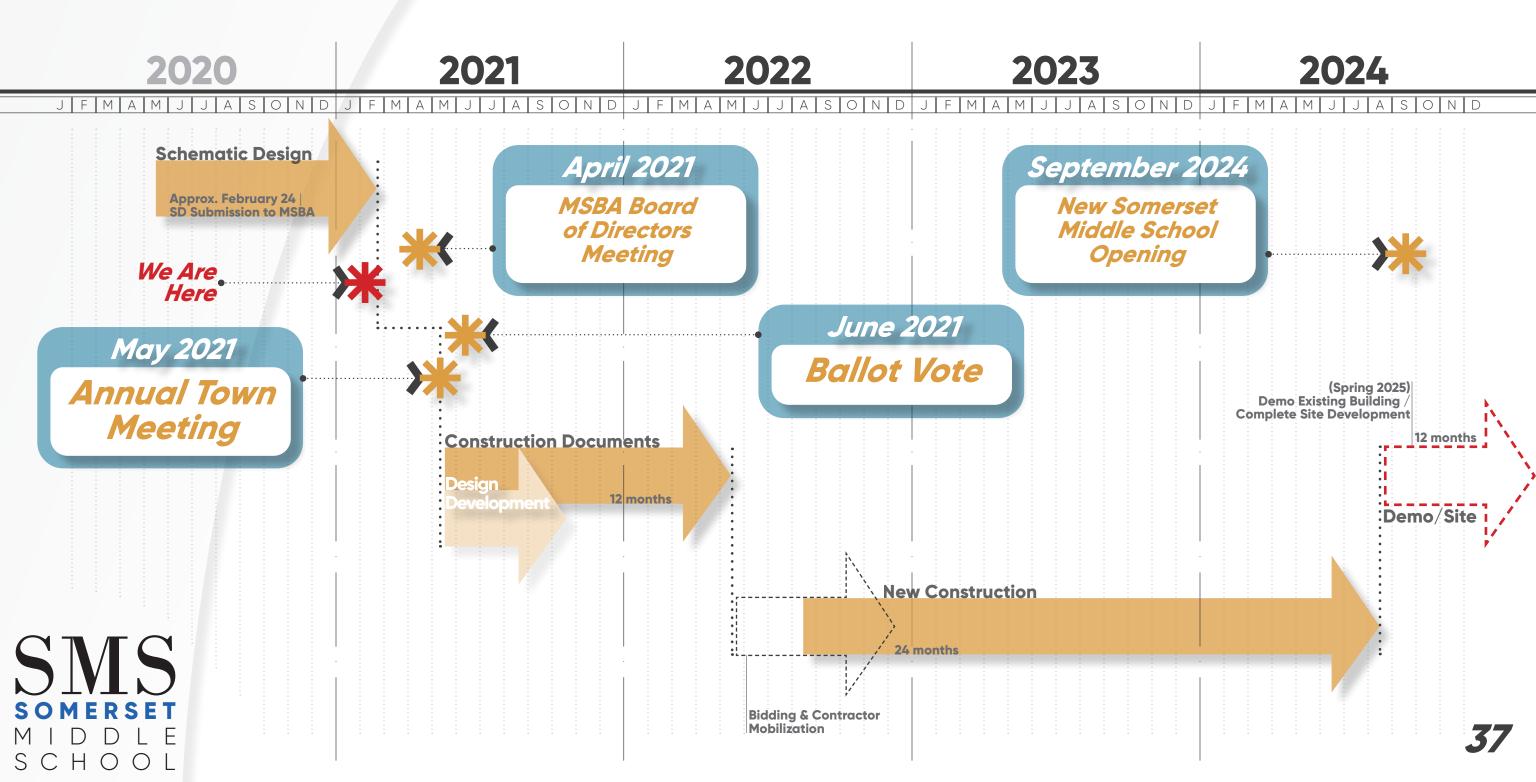
<sup>&</sup>lt;sup>1</sup> Feasibility study was paid with cash appropriation.

#### Assumptions:

- \* Estimated Interest rates ranges are subject to change.
- \* Tax rate impact assumes no growth in assessed value over the life of the bonds.
- \* Tax rate impact assumes the residential to commercial/industrial/personal property tax rate shift will ren
- \* Tax rate impact assumes the average home value will remain constant over the life of the bonds.
- \* Bonds issued on a level debt service basis.
- \* Data based on information provided by Hilltop Securities, Inc.



### **SMS** | Project Timeline



## Frequently Asked Questions

What is the role of the Massachusetts School Building Authority (MSBA)?

Why did the SMS SBC/SC/BOS all endorse the construction of a new 6-8 Middle School instead of proposing to expand & renovate the existing building?

What are some of the existing building challenges?

What are the safety & security measures included in the proposed project?

**V.** What is the project timeline?

VI. What happens if the debt exclusion vote DOES or DOES NOT pass in May 2021?

What are the educational & community benefits associated with the new middle school?

VIII. What is the estimated cost of the project & what does it include?



IV.



## Thanks for Participating!

## **Continued Communications**

- For project related questions, please Email:
  - Email: smsbuildingproject@somersetschools.org
- For more info, visit our Website:
  - Somerset Middle School Building Project
  - Visit: http://bit.ly/SMSbuildingproject

Follow us on:







SMS\_BuildingCommittee

