

Master Plan Report

Dedham Public Schools Dedham, MA.

Prepared by SMMA

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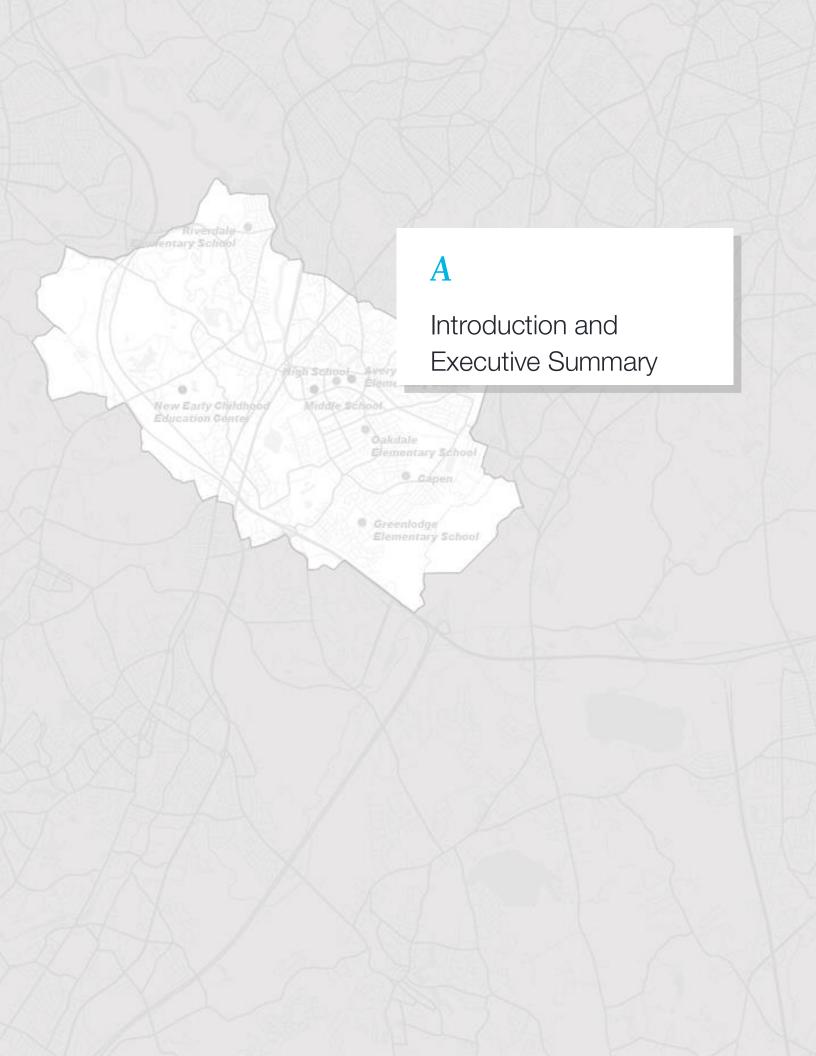
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Section A

Introduction and Executive Summary

Acknowledgments

SMMA would like to acknowledge the participation and guidance provided by the district administration, Facilities department, and the teachers and staff of the District.

Adhoc Working Committee

Michael Welch - Superintendent of Schools Kevin Coughlin - Chair, School Committee Steve Bilafer - School Committee & School Building Rehabilitation Committee Mayanne MacDonald Briggs - School Committee & School Building Rehabilitation Committee

School Building Rehabilitation Committee

David Roberts, Chair Ron Hathaway, Vice-Chair Steve Bilafer Mayanne Briggs Brendan G. Keogh Mary Ellen McDonough John Tocci Nancy Baker (exofficio) Michael Welch (exofficio)

School Committee

Kevin Coughlin, Chair Lisa Laprade, Vice-Chair Steve Bilafer Mayanne MacDonald Briggs Joshua Donati Melissa Pearrow Tracy White

Introduction

SMMA was engaged to conduct an Update to the Dedham Public Schools Master Plan.

The focus of this Plan was to review the four (4) remaining buildings that have not been rebuilt or built new in the past 50 years, specifically: Riverdale Elementary School; Oakdale Elementary School; Greenlodge Elementary School; Dedham High School. In addition, the old site of the ECEC (322 Sprague Street) was reviewed for its' potential re-use, use as swing space or excess to the Town.

Early on in the process, the principals of each of the four schools were interviewed as part of the building conditions and educational facility effectiveness review. In order to understand the full context of the schools to be studied, SMMA conducted tours of and interiews with the principals of the Avery Elementary School and Dedham Middle School that were outside of this scope as well.

Dedham Master Plan Goals

The Dedham School Committee and the Adhoc Working Committee collaborated on developing the following goals for the Master Plan

- Comprehensively rebuild or replace Oakdale, Riverdale and Greenlodge Elementary Schools
- Develop a master plan where the elementary schools can serve the community well into the future with flexibility to accommodate changing educational needs
- Provide equity of facilities for all elementary children within the town
- To the extent possible, plan for school(s) that foster a small school / neighborhood environment and feeling
- Develop project(s) that are fiscally responsible and politically viable for the community

Overview of Previous Studies

SMMA reviewed the previous studies conducted for the Dedham Public Schools including:

- 2013 Master Plan Update Study, by Dore and Whittier
- 2015 ECEC Feasibility Study, by KBA Architects
- 2016 Facility Condition Assessment, by the EMG Corp.

Assessments of building conditions, size and types of space and other details were found to be consistent with what SMMA observed.

Enrollment Discussion

Each year the New England School Development Council (NESDEC) develops a report for Dedham Public Schools. The report includes historical enrollment data as well as projected enrollments for the next ten years. This was done most recently in late 2019 based on the October 1, 2019 actual enrollments. The NESDEC report is included in Appendix 1of this report.

Take-aways from the referenced NESDEC report

- 1. Over the next ten years (2019-2020 to 2029-2030), the Grades 1-5 population is anticipated to rise by approximately 130 students
- 2. Over the next ten years (2019-2020 to 2029-2030), the Grades K–12 population is anticipated to rise by approximately 130 students suggesting that most of the increase will appear in the elementary grades
- 3. Currently the average grade level size for Grades 1-5 is 196 students
- 4. The ten-year projection of average grade level size for Grades 1-5 is 225 students

Outside of the NESDEC report the trend that is most notable is the trend in PreK and Kindergarten. The current Kindergarten grade level size is 230 students. This represents a recent increase in both PreK and Kindergarten. Since the trend is recent and only a few years, it is impossible to know if that increase will maintain or even increase in the future. If an increase were to be the case, there could be a significant increase realized at matriculating grade levels with higher enrollments at the elementary grades.

During community meetings, parents and residents expressed concern over rising population at the ECEC and the potential impact if that trend matriculates to the elementary grades and schools. SMMA was requested to develop alternatives based on a potential population growth to level of 250 students per grade at the elementary grades. This alternate approach is developed in Sections E & F of this report.

Educational Adequacy

Riverdale, Oakdale and Greenlodge Elementary Schools

The three school buildings were reviewed for their ability to serve contemporary and next generation learning into the future. The following building issues are the most impactful to teaching and learning: occupant comfort, health and safety, and adequacy of building systems. All will need to be addressed at some point in the future. If there were to be building renovations and or additions, all would need to be addressed, triggered by building / health codes or educational needs.

The review of the three schools based on these issues and characteristics led to the recommendation that all three buildings need to be addressed as capital projects for comprehensive renovations or replacement.

Each building was reviewed for:

Educational Effectiveness – the ability to host current and future:

- Educational curricula
- Teaching and learning methodologies
- Next generation modalities of learning

Building Elements - multiple building conditions that impact teaching and learning

Building Priorities

In 2016, the Massachusetts School Building Authority (MSBA) conducted a state-wide review of school buildings called the 2016 School Survey Report. The chart below shows the statistics for Dedham's Schools.

Mass	Massachusetts School Building Authority – 2016 School Survey Report										
District			Year Founded	2016/2017 Enrollment			Classroom Count	Students/ Classroom	Building Conditions Rating	Capacity Rating	General Environmental Rating
Dedham	Avery	ES	2012	308	61,000	116.8	-	-	-	-	-
Dedham	Dedham High	HS	1969	739	307,323	415.9	72	10.3	1	Under	1
Dedham	Dedham Middle School	MS	2006	631	162,000	256.7	-	-	-	-	-
Dedham	Early Childhood Center	PreK/K	1931	282	26,000	92.2	-	-	-	-	-
Dedham	Greenlodge	ES	1955	278	51,084	183.8	19	14.6	2	Average	1
Dedham	Oakdale	ES	1902	272	53,524	179.8	21	13.0	3	Average	1
Dedham	Riverdale	ES	1920	183	37,299	203.8	16	11.4	2	Average	1

The scoring rubric for this chart is as follows:

Scoring Rubric - (Ratings 1 - 4) best to poorest

- 1. Building Condition
- 2. General Environment
 - Learning Environments
 - Building Safety
 - Universal Accessibility
 - Academic Sufficiency
 - Program Sufficiency
 - Instructional Technology
- 3. Capacity Utilization
 - Underutilized (less than 80% capacity utilization)
 - Average Utilization (between 80% 125% capacity utilization)
 - Over Utilization (equal to or greater than 125% capacity utilization)

The full MSBA School Survey Report can be found at: http://www.massschoolbuildings.org/programs/school_survey

What is clear is from these statistics is that Oakdale's building condition is the most poorly ranked, followed by Riverdale and Greenlodge. Dedham High School is in the best condition of these four schools.

Editorial note: the three previous studies of Dedham's school buildings as well as the findings of this report all indicate all four buildings are in worse condition than as reported in the MSBA Survey. That said, we agree on that Oakdale ES is the school with the greatest need. We place Riverdale second and Greenlodge third based on our assessments.

Dedham High School constructed in 1969 (51 years old) does have Educational Effectiveness and Building Element issues. The school department has and continues to address as many as budgetarily possible. The high school building was designed to house a significantly higher student population than currently exists. If Dedham were to attempt to replace the high school, the MSBA guidelines would indicate an appropriately smaller building; about ½ the current size.

Over the years as the student population declined, Dedham has used the excess space for school department and other community needs. These uses would all be displaced if a new high school were sought.

The High School building also houses:

- DPS Central Administration including Business Office
- DPS Facilities Department use
- DPS Commissary Kitchen for all schools
- Youth Commission Offices
- Athletics and Fitness Center

Space Needs Assessment

How much and what kind of space is needed to replace the three schools: Riverdale, Oakdale and Greenlodge? The follow up is where does it go and why? What are the cost impacts of these decisions?

The answers to all these questions will be the focus of MSBA's Module 3: Feasibility Study. This is the first stage of research, analysis and design of a project once the school district is invited into the Capital Grants Program.

The following exercise was explored and discussed with the Dedham community in advance of preparing the Statement of Interest (SOI).

Projected Enrollment Converted to Building Size

Since the current enrollments in grades 1-5 are relatively small compared to many districts, and the individual schools are relatively small, the following exercise was conducted for discussion with the Dedham community.

How might the three schools under study be replaced?

Using projected population enrollments summarized in Section C of this report, we have looked at the district elementary grades (1-5) population figures less those at the Avery School. In doing so, two district design populations are moved forward.

- 1. Currently, anticipated elementary schools' population of 1,125 students. This projected population comes from the most recent NESDEC Report. When removing the 345 students at Avery from consideration, the "design population" is 780 students.
- 2. If the elementary grades population were to grow to 1,250 students (250 per grade) the design population would be 905 students (1,250 345 [Avery]).

Conceptual Approaches

Section F demonstrates "conceptual approach" descriptions and site diagrams for the Riverdale, Oakdale and Greenlodge Elementary School sites.

A "test fit" was developed for each of the existing school sites to accommodate two different "design populations" for each of a three-school solution; a two-school solution or a one school solution. These approaches are described in Section E of this report, Space Needs Assessment. The site diagrams shown in Section F are not intended to reflect a building design but rather an approximate first floor "footprint" of a likely multi-story building.

Assumptions used when developing the test fit diagrams:

- Only the existing school sites were considered. No other Town-owned land was identified for consideration for a single or multiple new school(s)
- Due to the lack of available swing space at existing school buildings, concept approaches shown in Section F are confined to a new building on the same site but adjacent. The existing school is intended to remain in operation during the construction of the new building. Following occupancy, the existing building would likely be demolished to make room for vehicular circulation, parking and play fields or the building and immediate site would be returned to the Town as surplus property.
- The Capen school building and site were not considered for swing space or a new school site. This discussion is summarized in Section A of this report.
- The Avery Elementary School, being a relatively new school on a small and land locked site was not part of the test fitting.
- Further investigations will be needed of each of the sites to confirm the
 viability to support a new school. These investigations will take place as part
 of part of the MSBA driven Feasibility Study. These investigations will
 include, but not be limited to wetlands, geotechnical, topography and
 survey, hazardous materials etc.

The Community Process, Summary of Community Meetings

SMMA, in collaboration with the School Department, School Committee and Dedham School Building Rehabilitation Committee, conducted a series of community forums, a visioning workshop and listening events. Community meetings took place on:

- December 11, 2018 Dedham School Committee & School Rehabilitation Committee Joint Meeting
- June 5, 2019 Community Kickoff Meeting
- October 15, 22 and 23, 2019 Individual School Update and Input Gathering Meetings
- December 9, 2019 Dedham Public Schools Community Workshop #2
- January 13, 2020 Test Fitting Three Existing School Sites

(Note: PowerPoint presentations from each of the Community Meetings can be found in the Appendix of this report)

Moving Forward with the Massachusetts School Building Authority (MSBA)

Engagement with the MSBA is formally initiated through the submission of a Statement of Interest (SOI), followed by an Eligibility Period and a Feasibility Study. This section describes those initial steps in detail, after which a fairly prescriptive design and construction process follows.

Statement of Interest Process (SOI)

- 1. Submitting an SOI is the first critical step in the MSBA's program to partially fund the construction, renovation, addition or repair of municipally owned school facilities located in cities, towns and regional school districts.
 - The Dedham School Department is planning to submit an SOI for the Oakdale School prior to the deadline of early April 2020.
- The SOI allows districts to inform the MSBA about deficiencies that may exist in a local school facility and how those deficiencies inhibit the delivery of the district's educational program.
- 3. The district either submits under the Core (Capital) Program or the Accelerated Repair program.
 - The SOI to be submitted under the Core (Capital) Program

MSBA Statement of Interest Priorities

The SOI submitted by the District must identify which of the SOI Priorities are relevant for their project.

Oakdale Elementary School SOI - Of the seven SOI Priorities, the Dedham Public Schools intends to submit under the two Priorities Five and Seven.

Priority Five - Replacement, renovation or modernization of school facility systems, such as roofs, windows, boilers, heating and ventilation systems, to increase energy conservation and decrease energy related costs in a school facility

Priority Seven - Replacement of or addition to obsolete buildings in order to provide a full range of programs consistent with state and approved local requirements

Costs Discussion

The scope of this master plan did not include providing probable project costs. Additional definition of scope and schedule would be required in order to do so. In the absence of providing probable costs, we have provided a high-level overview of factors and decisions that can influence cost and have provided some vocabulary around cost. During the Feasibility Study phase, the project team will provide cost information.

Grade Level Configuration

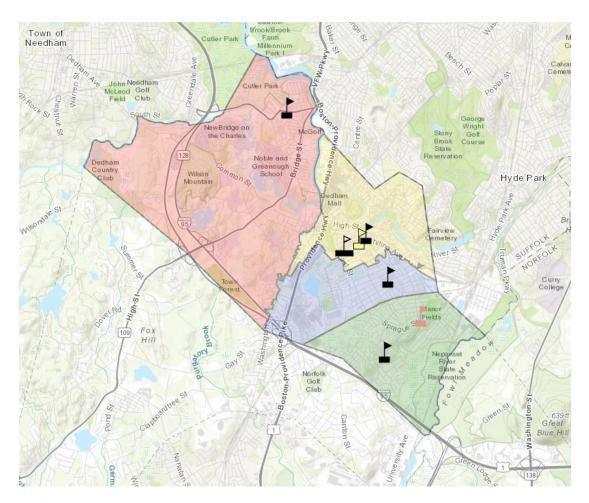
Dedham has a grade level configuration consisting of Pre-K, 1-5, 6-8, and 9-12. Although there were brief discussions on whether or not it could or would want to change, it was agreed that no change is anticipated. Contributing to this discussion are:

- Avery Elementary School designed for approximately 325 students. If it
 were to be reconfigured, it is too large to house a single grade level and too
 small to house two grade levels.
- ECEC is designed to house the district wide populations for both PreK and Kindergarten. If the Kindergarten population were to be sustained or further increase (currently 230 students), the new ECEC could become overcrowded. This could suggest some of the Kindergartens may need to return to the elementary school(s). Also see the demographic discussion in Section C

Current Elementary School District Lines

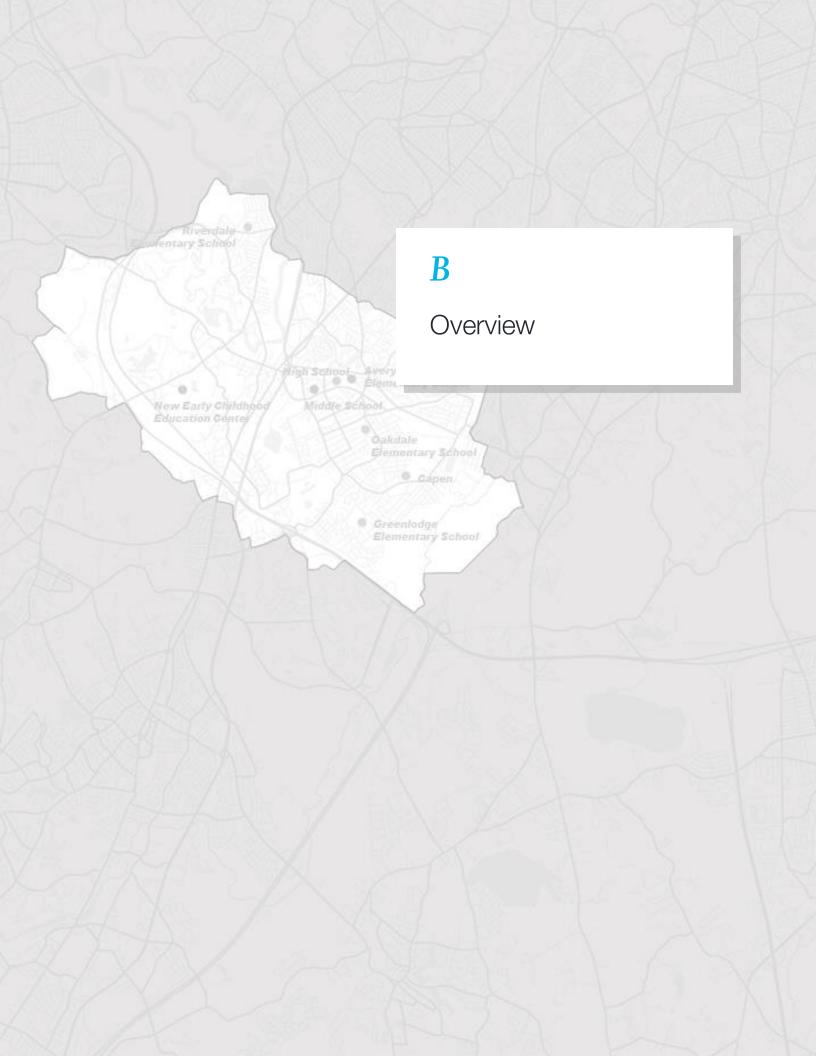
The graphic below shows the current elementary schools catchment boundaries:

- Red Riverdale Elementary School
- Yellow Avery Elementary School
- Blue Oakdale Elementary School
- Green Greenlodge Elementary School



Redistricting

Regardless of what direction the school replacement program takes, there will be an inevitable need to re-evaluate the elementary school attendance zones. The schedule for replacement including the number of replacement buildings will greatly influence the redistricting process and whether or not it will need to take place more than once within any defined schedule.





Section B

Overview of Previous Studies, Existing Conditions Assessments Discussion

Dedham Public Schools has, over the past seven or eight years, studied each of the schools in the district, both for building condition and educational functionality. The studies were in-depth and have led to improvements in the school system including design and implementation of the new Early Childhood Education Center (ECEC).

SMMA reviewed each of these studies and found them consistent with our walk-throughs of the buildings and interviews with school administrators.

Dore and Whittier 2013 Master Plan Update Study

This study was a follow up to Dore and Whittier's previous Master Plans conducted in 2003 and 2008. Those studies led to the design and construction of the Dedham Middle School and the new Avery Elementary School.

The 2013 showed that the three elementary schools: Riverdale, Oakdale and Greenlodge were significantly undersized, and most significantly, the teaching spaces, primarily classrooms are undersized when compared to the Massachusetts School Building Authority (MSBA) guidelines.

What keeps this from being a significant issue currently is the small class sizes in most of the schools. If class sizes were to rise based on the MSBA guidelines of 23 students per class, the classroom size would be of major concern for contemporary and future teaching and learning methodologies.

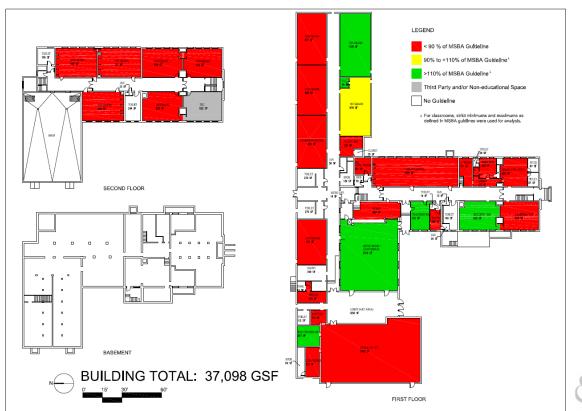
The drawings below are from the 2013 Masterplan Update and clearly show the scope of classroom sizes in these schools.

The spaces shown in red indicate room areas are greater than 10% smaller than the Guidelines of the MSBA. Most all teaching spaces are undersized. This information is used in conjunction with the buildings' construction type and condition of the building envelope and engineering systems to evaluate the buildings ability to serve as a 21st Century school.

At the Riverdale School, these small classrooms are throughout the school including the original 1921 building and the 1930 and 1952 additions.

RIVERDALE SCHOOL - SPACE NEEDS ANALYSIS August 1, 2013

Riverdale Elementary School



This drawing and analysis was part of the Dore and Whittier 2013 Master Plan Update Study

The spaces shown in red indicate room areas are greater than 10% smaller than the Guidelines of the MSBA. Most all teaching spaces are undersized. This information is used in conjunction with the buildings' construction type and condition of the building envelope and engineering systems to evaluate the buildings ability to serve as a 21st Century school.

At the Riverdale School, these small classrooms are throughout the school including the original 1921 building and the 1930 and 1952 additions.

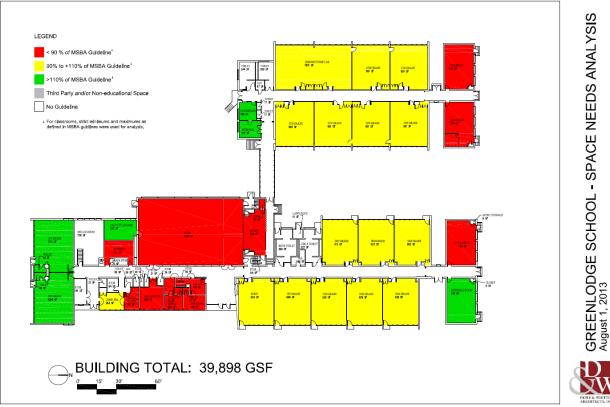
Oakdale Elementary School



This drawing and analysis were part of the Dore and Whittier 2013 Master Plan Update Study

The spaces shown in red indicate room areas are greater than 10% smaller than the Guidelines of the MSBA. Most all teaching spaces are undersized. This is the case in both the original 1902 building as well as the 1951 and 1970 classroom additions. This information is used in conjunction with the buildings' construction type and condition of the building envelope and engineering systems to evaluate the buildings ability to serve as a 21st Century school.

Greenlodge Elementary School



This drawing and analysis were part of the Dore and Whittier 2013 Master Plan Update Study

The spaces shown in red indicate room areas are greater than 10% smaller than the Guidelines of the MSBA. Although most of the classrooms meet the MSBA room size, both original construction - 1955 and the 1961 classroom addition, the newer west wing is accessible only by an isle that runs along the back of the stage. The later added modular classrooms, 1970, are undersized and are beyond their useful life. This information is used in conjunction with the buildings' construction type and condition of the building envelope and engineering systems to evaluate the buildings ability to serve as a 21st Century school.

The 2016 EMG study contains more recent information on the physical conditions of the buildings.

KBA 2015 ECEC Feasibility Study

In 2015, KBA Architects (Knight, Bagge & Anderson, Inc.) studied numerous options as part of MSBA approved Feasibility Study to relocate the Early Childhood Education Center from the Sprague Street site / Capen School building to the Dexter School site. The building is to serve the district wide Pre-Kindergarten and Kindergarten students.

As part of the study process, KBA presented 14 options covering additions and renovations as well as new construction, studying each of the Riverdale, Oakdale, Greenlodge and Dexter school sites. The process included community presentations and debate. Ultimately the Dexter school site was selected.

EMG 2016 Facilities Conditions Assessment

In 2016, the consulting firm of EMG based out of Owings Mills, MD conducted a **Facilities Conditions Assessment** for each of the school buildings. The reports are very detailed listing significant information on the buildings and sites. The reports cover many aspects of the building envelope (exterior walls, roofs etc.) and each of the engineering systems in the facilities.

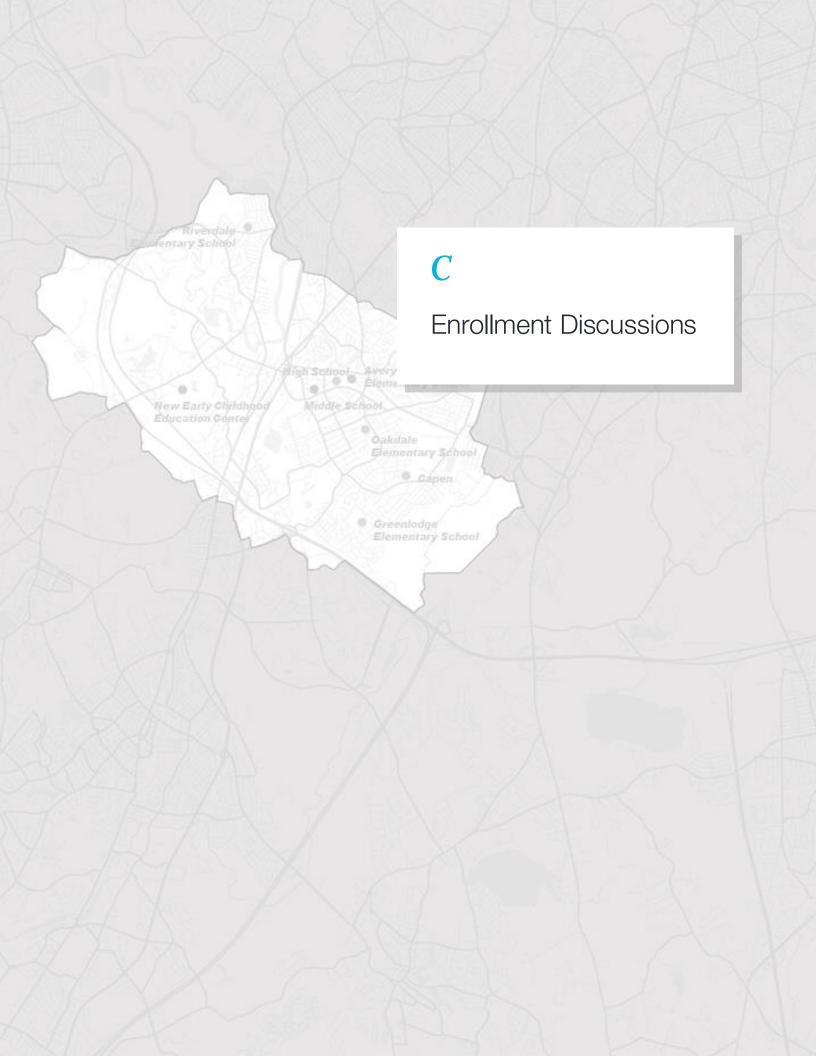
The reports include **Special Issues and Follow up Recommendations**. **Opinions of Probable Costs** are included for repairs and replacement of systems.

Although the buildings appear to be well maintained, much of the envelope and many of the engineering systems are beyond their useful lives.

The reports include an analysis of the Facility Condition Index (FCI) which gives an indication of a building's overall condition. Two FCI ratios are calculated and presented, the Current Year (2016) and Ten-Year.

- 1. The Current Year FCI is the ratio of Immediate Repair Costs to the building's Current Replacement Value.
- 2. The Ten-Year FCI is the ratio of anticipated Capital Reserve Needs over the next ten years to the Current Replacement Value.

The 10-year FCI's for the three elementary schools range from Fair to Very Poor.



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Section C

Enrollment Discussions

Each year the New England School Development Council (NESDEC) develops a report for the Dedham Public Schools district. The report includes historical enrollment data as well as projected enrollments for the next ten years. This was done most recently in late 2019 based on the October 1, 2019 actual enrollments. The NESDEC report is included in Appendix I of this Master Plan report.

NESDEC uses the Survival Cohort Model when developing projected enrollments. This includes historical trends; numbers of live births; an anticipated matriculation of students from year to year; newly constructed housing and anticipated school age children from them. It may not include housing projects that are in the planning stages.

Take-aways from the referenced NESDEC report:

- Since 2010, the Grades 1-5 population has dropped by approximately 150 students
- Since 2010, the Grades K-12 population has dropped by approximately 170 students (a 6.2% decrease)
- Over the next ten years (2019-2020 to 2029-2030), the Grades 1-5 population is anticipated to rise by approximately 130 students
- Over the next ten years (2019-2020 to 2029-2030), the Grades K-12 population is anticipated to rise by approximately 130 students suggesting that most of the increase will appear in the elementary grades
- Currently the average grade level size for Grades 1-5 is 196 students
- The ten-year projection of average grade level size for Grades 1–5 is 225 students

NOTE: Beyond 5 years out, populations are "estimated" for elementary years.

Outside of the NESDEC Report, what is most notable is the trend in PreK and Kindergarten enrollments. The current Kindergarten grade level size is 230 students and the PreK is capped at 130. This represents a recent increase in both PreK and Kindergarten. Since the trend is recent and only a few years, it is impossible to know if that increase will maintain or even increase in the future. If an increase were to be the case, there could be a significant increase realized at matriculating grade levels with higher enrollments at the elementary grades.

Future PreK Needs

The new Early Childhood Education Center (ECEC) opened in February 2019. The school serves all (District wide) kindergarten classrooms with a current population of approximately 230 children.

The school also serves integrated and tuition PreK (6 classrooms) with a current population of approximately 130 students. Some PreK students attend half day (morning or afternoon session) while others attend full day. In the very short time, the school has been opened, it has been a big success. Special needs students with an Individual Education Plan (IEP) enroll in the school at age 2.9. This means that these classrooms increase in population throughout the school year.

The late-fall PreK enrollment filled quickly and there are approximately 120 families who are currently on the waiting list.

It is possible that the success of the PreK program will result in more pressure on the Kindergarten program. Since there is a limited number of classrooms in the ECEC, this increase could further reduce the PreK capacity. These enrollment numbers need to be monitored several times each year.

Short-term solution: the ECEC building was designed to accept a two-classroom modular addition. There are some permitting issues that would need to be addressed to undertake the addition.

Long-term solutions: if PreK and K enrollments continue to rise or at some point the Town decides to substantially increase PreK enrollment capacity, strategies might include:

- Turn the ECEC into an all PreK building
- Return kindergartens to each of the elementary schools. This would best take
 place in concert with a capital school project. Alternate building sizes are
 explored in this Master Plan.

Community Input

During community meetings, parents and residents expressed concern over the rising population at the ECEC and the potential impact if that trend matriculates to the elementary grades and schools. SMMA was requested to develop Alternatives based on a potential growth population of 250 students per grade level at the elementary grades.

Projected Enrollments

Base Line:

The anticipated (based on 10-year projection) elementary schools' population is 1,125 students (225 students per grade level). This projected population comes from the most recent NESDEC Report. When deducting 345 students at Avery from the total population, the "design population" for the remaining school(s) is 780 students.

Potential Growth:

If the elementary grades population were to grow to 1,250 students (250 students per grade level) the design population would be 905 students (1,250 – 345 [Avery]). Note, at this point, the only basis for this growth number is the very real trend in the PreK population, PreK demand and the higher than anticipated kindergarten population.

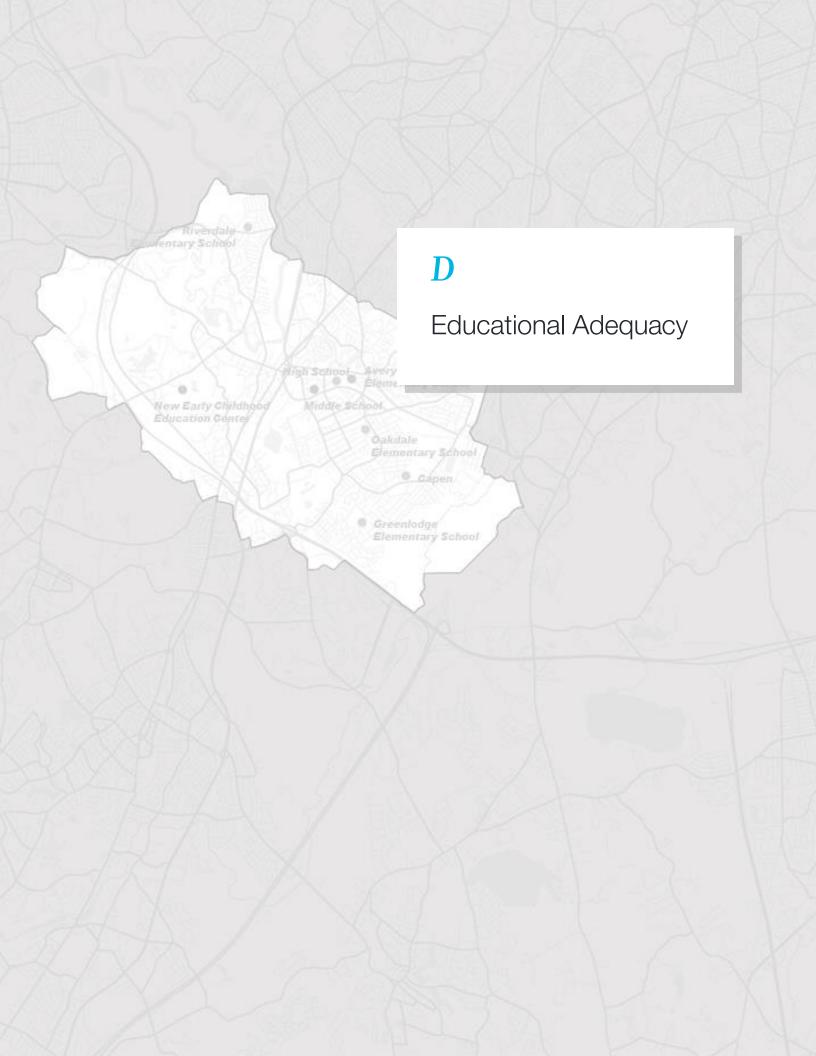
It should also be noted that new schools in communities in eastern Massachusetts have an anecdotal history of rapidly rising student populations from students returning from private, charter and other schools from outside the district.

Ultimately, the MSBA will develop a projected population for the elementary grades which will then be the basis for the Feasibility Study and design. This projection will be developed when the Statement of Interest is accepted, and Dedham is invited into the Capital Program.

The Massachusetts office of Secretary of State anticipates that data from the National 2020 Census will assist with future school planning.

The following chart shows current school statistics at each of the four elementary schools and the ten year need for classrooms using the MSBA class size.

		Curr	rent		2027 N	eeds w/ MSB	A Criteria
	2018-19	Classrooms/	Total	Average		Classrooms	
	Population	Grade	Classrooms	Class Size	Class size	/ Grade	Population
Avery	304	3	15	20.3	23	15	345
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-
Riverdale	172	2	10	17.2	23		
Oakdale	271	3	15	18	23	30	671
Greenlodge	247	3	14	17.6	23		
	994	11	54	18.4		45	1,016



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Section D

Educational Adequacy, Building Issues & Characteristics

Riverdale, Oakdale and Greenlodge Elementary Schools

The three school buildings were reviewed for their ability to serve contemporary and next generation learning into the future. The following building issues are the most impactful to teaching and learning: occupant comfort, health and safety, and adequacy of building systems. All will need to be addressed at some point in the future. If there were to be building renovations and or additions, all would need to be addressed, triggered by building / health codes or educational needs.

The review of the three schools based on these issues and characteristics led to the recommendation that all three buildings need to be addressed as capital projects for comprehensive renovations or replacement.

Educational Facility Effectiveness

Educational Effectiveness is the buildings' ability to host current and future:

- Educational curricula
- Teaching and learning methodologies
- Next generation modalities of learning

Dedham's three older elementary schools were constructed in the early to mid-20th Century. The process of educating today, content, delivery methodology and learning modalities is significantly different from when these schools were built. The Master Plan needs to look as far into the future as possible. The Educational Facility Effectiveness review takes into account both the Educational Spaces and the Building Elements that impact teaching and learning.

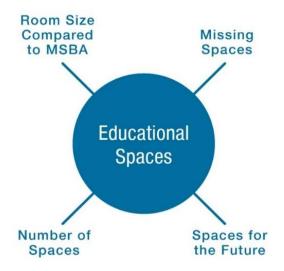
The Massachusetts School Building Authority (MSBA) has "Guidelines" for the type, number and size of rooms that typically comprise schools today. These are formulaic with the size and number of spaces based on the anticipated student population (design size). This MSBA document is called the Summary of Spaces. The Summary of Spaces assumes 23 students per classroom in grades 1-12 and 18 students per classroom in K.

Educational Spaces

Room sizes Compared to MSBA – is the square footage similar to as defined in the Summary of Spaces? Room size has a direct relationship to the number of students properly supported in the classroom. It is a good indicator of flexibility for future educational changes.

Missing Spaces – are there spaces, typical to a school that are missing from Dedham's schools? e.g. cafeterias are expected in all schools. None of the Riverdale, Oakdale or Greenlodge have a cafeteria.

Number of Spaces – are there enough classrooms and other teaching and support spaces to serve the proposed design size and teaching methodologies?



Spaces for the Future – though it is not possible to forecast the future of education and the spaces needed, are existing spaces flexible enough to accommodate multiple or alternate teaching methodologies?

Building Elements

Quality of the Environment – a subjective interpretation regarding the aesthetics or the space. Is the space one where children will want to spend a large portion of their day? Many of the other "building elements" contribute to this quality.

Ventilation – good ventilation can have a positive impact on students' ability to learn. Does the space have the proper (code conforming) mechanical ventilation, providing: outdoor air, filtered air, heated or cooled? Are operable windows with insect screens, available to provide natural ventilation in on temperature appropriate days?



Lighting – is the artificial lighting in the school:

- Have the proper light levels for educational activities?
- Is it controllable for a range of activities in the rooms?
- The type that won't aggrevate some students medical or physiological conditions

Furniture – is the furniture comfortable for students; can it be easily moved within the classroom; serve multiple modalities of teaching and learning?

Technology – is the technology infrastructure capable of serving future needs?

Acoustics – are the rooms' acoustical qualities appropriate for teaching and learning.

- Is there appropriate absorptive material within the room to ensure speech intelligibility between occupants?
- Are the walls and partitions capable of keeping out noise that maybe generated from outside the room?

Significant Building Condition

Issues are those components that have an impact on teacher's ability to teach and students ability to learn. In some cases, are the buildings able to be renovated in a cost-effective way? E.g. is it possible to expand classroom sizes in a load bearing masonry structure?

Minor Issues

Identified as minor, have some impact on teaching and learning but are not code or safety issues. Many can likely be accomplished as needed with operational funding.

Riverdale Elementary School

1. Educational Effectiveness

- a. Typical classrooms in the original building are significantly undersized (612 to 721 sf); typical classrooms in the building additions range in size from 767sf (undersized) to 870 / 978 which are in the range of MSBA Guidelines
- b. No cafeteria for student dining (meals in classrooms)
- c. Undersized gym and library/media center
- d. Numerous issues with building conditions that support teaching and learning: lighting; temperature; ventilation, acoustics
- e. Issues related to safe and secure learning environments
- f. Need for additional spaces to support Special Education
- g. Existing 2 section school building area = 37,098 gsf
 MSBA guidelines for a 2-section school is 48,600 gsf

2. Significant Building Condition Issues - requiring capital expenditures

- a. Lack of handicapped access to significant parts of the building
- b. Numerous other issues of accessibility
- c. Wooden stairs
- d. Wood construction in original building
- Lack of automatic fire protection system

- f. Obsolete mechanical H&V system, no air conditioning (frequent too hot / too cold for teaching and learning)
- g. Inadequate electrical systems
- h. Obsolete plumbing systems; lack of adequate facilities in original building
- Asbestos containing flooring and numerous other locations; PCB's in numerous locations
- j. Entry sequence, exterior classroom doors and other school safety and security issues
- k. Window replacement needed
- Cosmetic issues floors, ceilings, walls (limited work might be categorized as minor)
- m. Other maintenance and capital repair projects listed in previous studies

3. Minor Issues - may be accomplished with operational funding

- a. Cosmetic issues floors, ceilings
- b. Limited student display area
- c. Primarily chalkboards
- d. Conventional classroom furniture

Oakdale Elementary School

1. Educational Effectiveness

- Typical classrooms in the original building are significantly undersized; typical classrooms in the building additions range in size from 715 sf (undersized), to 872 and 925, in the range of MSBA Guidelines
- b. No cafeteria for student dining (meals in classrooms)
- c. Undersized gym and library/media center
- d. Numerous issues with building conditions that support teaching and learning: lighting; temperature; ventilation, acoustics
- e. Issues related to safe and secure learning environments
- f. Need for additional spaces to support Special Education
- g. Existing 3 section school building area = 53,524 gsf
 MSBA guidelines for a 3-section school is 60,000 gsf

2. Significant Building Condition Issues - requiring capital expenditures

- Lack of handicapped access to significant parts of the building
- b. Numerous other issues of accessibility
- c. Wooden stairs / steel fire escapes
- d. Wood construction in original building

- e. Lack of automatic fire protection system
- f. Obsolete mechanical H&V system, no air conditioning (frequent too hot / too cold for teaching and learning)
- g. Inadequate electrical systems
- h. Obsolete plumbing systems; lack of adequate facilities in original building
- Asbestos containing flooring and numerous other locations; PCB's in numerous locations
- j. Entry sequence, exterior classroom doors and other school safety and security issues
- k. Window replacement needed
- Cosmetic issues floors, ceilings, walls (limited work might be categorized as minor)
- m. Other maintenance and capital repairs projects listed in previous studies

3. Minor - may be accomplished with operational funding

- a. Cosmetic issues floors, ceilings, walls
- b. Limited student display area
- c. Primarily chalkboards- change out to marker boards, additional boards desired
- d. Conventional classroom furniture

Greenlodge Elementary School

1. Educational Effectiveness

- a. Typical classroom sizes generally meet MSBA Guidelines with the exception of the most recent addition (4 rooms)
- b. No cafeteria for student dining (meals in classrooms)
- c. Undersized gym
- d. Numerous issues with building conditions that support teaching and learning: lighting; temperature; ventilation, acoustics
- e. Issues related to safe and secure learning environments
- f. Need for additional spaces to support Special Education
- g. Existing 3 section school building area = 51,000 gsf
 MSBA guidelines for a 3-section school is 60,000 gsf

2. Significant Building Condition Issues - requiring capital expenditures

- a. Limited handicapped access to significant parts of the building
- b. Numerous other issues of accessibility
- c. Lack of automatic fire protection system

- d. Obsolete mechanical H&V system, no air conditioning (frequent too hot / too cold for T&L)
- e. Inadequate electrical systems
- f. Obsolete plumbing systems
- g. Asbestos containing flooring and numerous other locations; PCB's in numerous locations
- h. Entry sequence, exterior classroom doors and other school safety and security issues
- i. Window replacement needed
- j. Cosmetic issues floors, ceilings, walls (limited work might be categorized as minor)
- k. Other maintenance and capital repairs projects listed in previous studies

3. Minor - may be accomplished with operational funding

- a. Cosmetic issues floors, ceilings, walls
- b. Limited student display area
- c. Primarily chalkboards change out to marker boards, additional boards desired
- d. Conventional classroom furniture

Charles J. Capen School Building



Capen School

The Capen School building most recently served the Dedham school district as the Early Childhood Education Center (ECEC). In February 2019, the new ECEC began its' soft-start opening. The new building is now in full operation. The main floor of the Capen building is currently leased to the Blue Hills Adult



Capen Site

Education organization. SMMA conducted a review of the building for potential use as "swing space" for any anticipated new capital project resulting from this Master Plan process and subsequent Statement of Interest filings with the MSBA.

SMMA reviewed the Facility Condition Assessment conducted by EMG Corporation, dated 12/12/2016 and the Master Plan Update, conducted by Dore & Whittier Architects, dated 8/1/2013 as well as a walkthrough of the building.

The conditions reported in these reports appear to be accurate. The building is in as bad or worse condition as the buildings to be renovated or replaced. Our opinion is the building is not appropriate to be used as swing space.

In a memo to the Superintendent, dated 4/18/2019, SMMA addressed the Dedham School Committee policy in regard to the potential retirement of the building.

Retirement of Facilities – this memo addressed each of the points of the Dedham School Committee policy in regard to the potential retirement of the Charles J. Capen school building.

1. Age / Physical Condition / Operating Systems / Program Facilities¹

- a. Age: Constructed in 1930 with a circa 1960's addition; the building was designed as an elementary school. The building began use as an early childhood center in 1993. The building is two stories plus a partially occupied basement
- b. Physical Condition: 322 Sprague Street, 29,167 gsf, the building exterior is characterized in fair and poor condition. The site and mechanical systems were characterized in poor condition. The other building systems were characterized in fair condition.
- c. Operating Systems:
 - Heating systems poor, fair, good (numerous anticipated lifecycle replacements identified)
 - ii Plumbing systems poor, fair, good (numerous anticipated lifecycle replacements identified)
 - iii Electrical systems fair (some anticipated lifecycle replacements identified)







Example of Obsolete Plumbing

¹ Data extracted and paraphrased from the Facility Condition Assessment conducted by EMG Corporation, dated 12/12/2016 and the Master Plan Update, conducted by Dore & Whittier Architects, dated 1 August 2013.

- iv Fire alarm fair (some anticipated lifecycle replacements identified)
- v Sprinkler System none
- vi Interior finishes poor, fair, good (numerous anticipated lifecycle replacements identified)
- vii Handicapped Accessibility poor, missing
- viii Hazardous Materials report available within the Master Plan Update

d. Program Facilities:

- i The building was undersized for the early childhood program
- ii Most all teaching spaces are greater than 10% undersized when compared to the MSBA Guidelines
- iii Numerous programs were in inappropriate sized for appointed spaces
- iv Numerous program spaces were missing

2. Adequacy of Site / Location / Access / Surrounding Development / Traffic Patterns / other environmental conditions

- Adequacy of Site: approximately 4 acres in size, the site is sloping in multiple directions. Access to the adjacent green play areas is steeply sloping and not accessible.
- b. Location / Access: The building is located on the arterial Sprague Street between the Readville section of Boston and the East Street rotary.
- c. Surrounding Development: either side of Sprague Street are typical residential Dedham neighborhoods. To the northeast is a vacant parcel owned by the town.
- d. Traffic Patterns: Sprague Street is well traveled. Site access is from Sprague Street. Vehicular egress is onto Sprague Street at the corner of Etna Road. This egress likely is considered a dangerous location. There is a modest service entrance off Etna Road.

3. Reassignment of Children

Beginning in February 2019, the new Early Childhood Education Center (ECEC) began its' soft opening. This new facility houses the town wide, centralized PreK and Kindergarten students and programs. The students and programs were previously housed in the Capen / Curran school building.

4. Transportation Factors

The school department has determined that there are no appreciable transportation differences between the Capen / Curran site and the location of the new ECEC building.

5. Alternative Uses of the Building

The Dedham School Department is currently leasing most of the main floor level to the Blue Hills Adult Education organization.

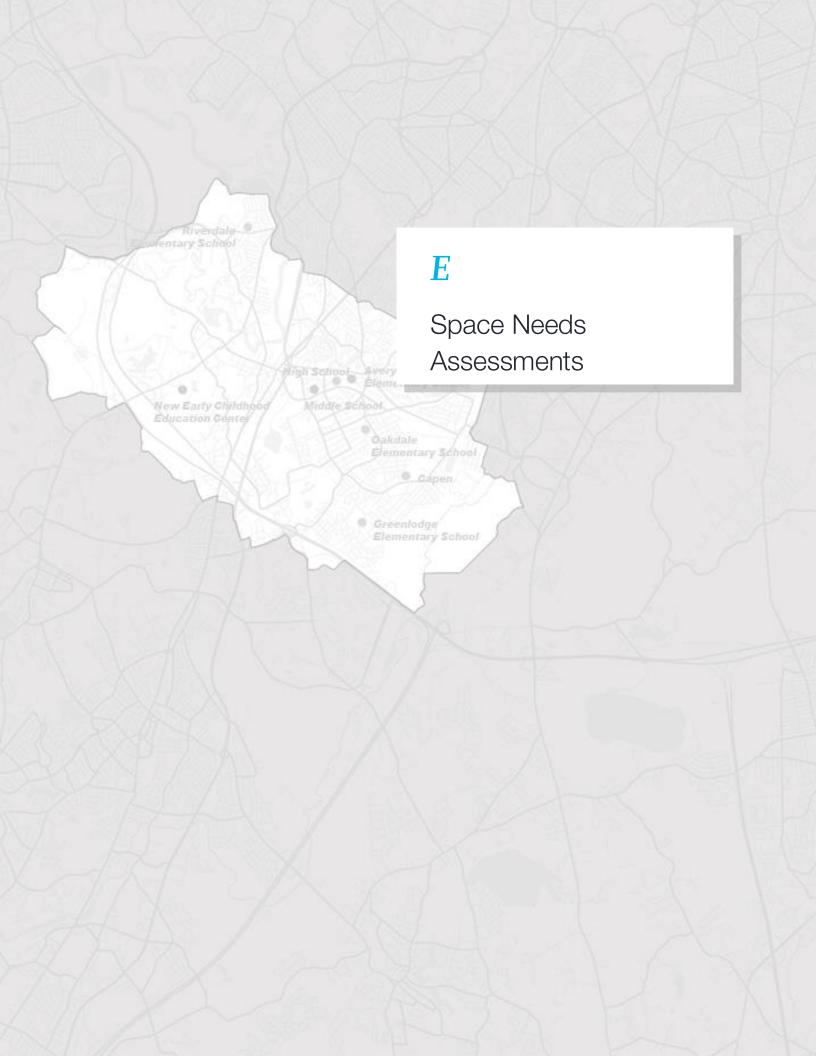
6. Costs / Savings

The current lease is covering the operational costs of the building.

At such time that there may not be a lease, the building is would need to be environmentally maintained until the community determines its' future. Mothballing is a term used for such short- or long-term maintenance. The degree of mothballing is up to the school department or town. Protection against freezing is essential, whether it be draining of systems containing fluids or heating to a temperature to prevent system freezing. Additionally, some level of temperature control and ventilation would be recommended to prevent mold / mildew growth and material and system deterioration.

7. Continuity of Instructional and Community Programs

The new Early Childhood Education Center (ECEC) contains all students and programs previously located in the Capen / Curran building. The soft opening of the building resulted in no disruption to instructional or community programs.



SMMA

Section E

Space Needs Assessments

How much and what kind of space is needed to replace the three schools: Riverdale, Oakdale and Greenlodge? Where would the buildings go and why? What are the cost impacts of these decisions?

The answers to all of these questions will be the focus of MSBA's Module 3 Feasibility Study. Module 3 is the first stage of research, analysis and design of a project, once the school district is invited into the Core Program.

The following exercise was explored and discussed with the Dedham community in advance of preparing the Statement of Interest (SOI).

Projected Enrollment Converted to Building Size

Since the current enrollments in grades 1-5 are relatively small compared to many districts, and the individual schools are relatively small, the following exercise was conducted for discussion with the Dedham community.

How might the three schools under study be replaced?

Using projected population enrollments summarized in Section C of this report, we looked at the district elementary grades (1-5) population figures, minus the population at the Avery School. In doing so, two district design populations are moved forward.

- 1. Currently anticipated elementary schools' population of 1,125 students. This projected population comes from the most recent NESDEC Report. When deducting 345 students housed at Avery, the "design population" is 780 students.
- 2. If the elementary grades population were to grow to 1,250 students (250 per grade) the design population would be 905 students (1,250 345 [Avery]).

These ranges are reflected in the three "Approaches" defined below.

As part of the community discussions in December 2019 and January 2020, the population "design approach" was to evenly divide the population between the three schools / sites. That approach does not take into account the need for a consistent number of class sections to matriculate through grades.

Class sections are the number of classrooms per grade level that then remains constant. e.g. a (2) section schools has: 2 first grades, 2 second grades, 2 third grades, etc. Similarly, larger section schools are identified based on the number of schools proposed.

In this analysis, the approaches include: 3 schools, 2 schools and 1 school solutions. Since we are calculating based around fixed populations, some approaches have varying classroom Sections of schools within a single Approach. This helps keep schools with relative consistent

populations and prevents from over building across the community. The spread sheet included in this report section represents the concept.

Three Schools - Approach "A", two (A1) or three (A2) sections per school = 230 students to 345 students (at each school) assumes that each school will be replaced on its' existing site. For purposes of equity, each school is assumed to be the same student population size. This Approach A acknowledges the concept of retaining neighborhood schools.

Pros:

- Best meets the aspirations of neighborhood schools
- Fits easily on each of the existing school sites (see Section F)
- Would have little if any negative impact on teaching and learning during the construction period
- Provides equity of facilities at all three sites

Cons:

- Least cost effective (construction cost) due to duplicative spaces and small economy of scale
- Least cost effective operationally
- Will require some teaching and student support service personnel to travel between buildings
- Some teaching and student support service personnel may not be available to students at the time of need
- Due to small size, may be challenging to get MSBA support
- A challenge for timing how long will it take to replace all three schools? Will
 the MSBA participate in multiple schools or will they need to be replaced
 sequentially?

These next two approaches reflect a consolidation to fewer school buildings

Two Schools – Approach "B", 345 students to 460 students (at each school). This would require selection of two of the three existing sites on which to construct new schools. For purposes of equity, each school is assumed to be the same size. This acknowledges the concept of retaining neighborhood schools.

Pros:

- Meets some of the aspirations of neighborhood schools
- Fits on the existing school sites (see Section F)
- Would have little if any negative impact on teaching and learning during the construction period

- Provides equity of facilities at all two sites
- Somewhat more cost effective (construction cost) than Approach A for school size and economy of scale

Cons:

- Somewhat less cost effective (construction cost) than Approach C due to duplicative spaces and smaller economy of scale
- Least cost effective operationally
- May require some teaching and student support service personnel to travel between buildings
- May result in specialized teaching and student support service personel not be available to students at the time of need

One School – Approach "C", 782 students to 920 students. This would require selection of one of the three existing sites on which to construct a new school.

Pros:

- Most construction cost effective due to lower overall square footage and best economy of scale
- Most cost effective operationally
- As one facility, all students share in the same facilities amenities at the same time
- Most efficient for specialized teaching and student support service personnel availability to students
- Shortest district wide schedule of implementation

Cons:

- Does not meet the aspirations of neighborhood schools
- Large elementary school
- Is more impactful on existing school sites
- May result in fewer play fields depending on site selected

Section F of this report "test fits" these conceptual approaches at each of the school sites.

Summary of Spaces

The Massachusetts School Building Authority (MSBA) uses a template for identifying the number and sizes of spaces for a "typical School". The output is based on the projected enrollment of the school. This is broken down in elementary schools by: Lower Elementary Grades, K-2; and Upper Elementary Grades 3-6.

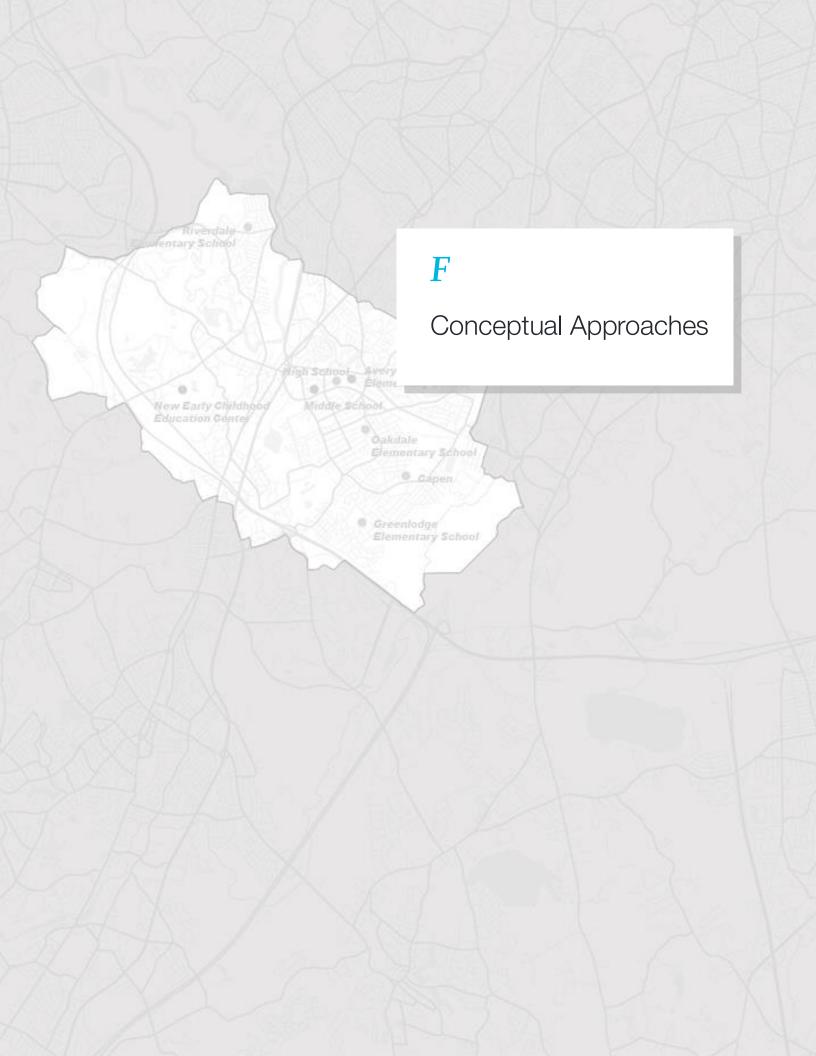
Since every community and school is unique with its' curricula, delivery methodology and student support, the Summary of Spaces needs to be developed during the Feasibility Study phase of a proposed project to reflect that school's criteria.

As of this Master Plan, the following Summaries were developed for purposes of comparison of different approaches. These summaries, without customization, identify an order of magnitude building size, in both net usable area and gross area or gross square feet (GSF).

The Summary of Spaces for each of the building sizes in in Appendix 3 of this report.

Three Approaches with Building Sizes

Baseline - NESDEC, 225 Students per Grade Level, Design Population 1,125 (Approaches A1, B1 and C1)							
Total			Design				
Population	Avery		Population		Sections	Classrooms	Building Size
1,125	345	=	780	=	7	34	
Potential - 250 students per Grade Level, Design Population = 1,250 (Approaches A2, B2 and C2)							
Total	Total Design						
Population	Avery		Population		Sections	Classrooms	Building Size
1,250	345	=	905	=	8	40	
Approach A1 -	3 Schools						
School 1		=	230	=	2	10	51,000
School 2		=	230	=	2	10	51,000
School 3		=	345	=	3	15	64,500
			805		7	35	166,500
Approach A2 -	3 Schools						
School 1		=	230	=	2	10	51,000
School 2		=	345	=	3	15	64,500
School 3		=	345	=	3	15	64,500
			920		8	40	129,000
Approach B1 - 2	2 Schools						
School 1		=	345	=	3	15	64,500
School 2		=	460	=	4	20	76,000
			805		7	35	140,500
Approach B2 - 2	2 Schools						
School 1		=	460	=	4	20	76,000
School 2		=	460	=	4	20	76,000
			920		8	40	152,000
Approach C1 - :	1 School	=	782	=	7	34	114,500
Approach C2 - :	1 School	=	920	=	8	40	132,000





Section F

Conceptual Approaches

This Section F demonstrates "conceptual approach" descriptions and site diagrams for the Riverdale Elementary School, Oakdale Elementary School and Greenlodge Elementary School sites

The work summarized in this section is to "test fit" the existing school sites to accommodate two different "design populations" for each of a three-school solution; a two-school solution or a one school solution. These approaches were described in Section E of this report, Space Needs Assessment. The site diagrams shown in this section are not intended to reflect a building design but rather an approximate first floor "footprint" of a likely multi-story building.

Assumptions used when developing the test fit diagrams:

- 1. Only the existing school sites were considered. No other Town-owned land was identified for consideration for a single or multiple new school(s)
- 2. Due to the lack of available swing space at existing school buildings, concept approaches shown in this Section are confined to the construction of a new building on the same site as the existing school. The existing school is intended to remain in operation during the construction of the new building. Following occupancy, the existing building would likely be down to make room for vehicular circulation, parking and play fields or the building and immediate site would be returned to the Town as surplus property.
- 3. The Capen school building and site were not considered for swing space or a new school site. This discussion is summarized in Section A of this report.
- 4. The Avery Elementary School is not in need of major repair replacement and was not part of the scope of this Master Plan.
- 5. Further investigations will be needed of each of the sites to confirm the viability to support a new school. These investigations will take place as part of part of the MSBA driven Feasibility Study. These investigations will include, but not be limited to wetlands, geotechnical, topography and survey, hazardous materials etc.

Conceptual Approaches by Site and Building Size

Riverdale Elementary School Site

- Site area: 5.75 acres
- Current building area: 37,098 gsf, one- and two-story building volumes

Approach A-1: Replace the current Riverdale School with a slightly larger school building using MSBA guidelines = Two Section School - design population of 230 students at approx. 51,000 gsf, or a Three Section School - design population of 345 students at approx. 64,500 gsf, using one- and two-story building volumes (site diagram below).

Approach A-2: This is similar to Approach A-1 –. This would have a similar site diagram but would increase in volume.

It has not been determined which school site receives the two-section school vs a three-section school.

- 1. A replacement (larger) building will fit on the current site, in the current building location +/-. This would require a swing space school.
- 2. A replacement (larger) building will fit on the current site, either partially or fully on the playfield and playground areas. This would allow the existing school to remain in operation during the construction of the new building.



Riverdale Elementary School Site (cont.)

Approach B-1: Replace the current Riverdale School with a larger school building using MSBA guidelines = Three Section School - design population of 345 students at approx. 64,500 gsf, or a four section School - design population of 460 students at approx. 76,000 gsf., two- and three-story building volumes (site diagram below).

It has not been determined is which school site receives the three-section school vs a four-section school.

Approach B-2: This is similar to Approach B-1 – except both schools would be Four Section Schools - design population of 460 students at approx. 76,000 gsf. This would have a similar site diagram but would increase in volume.

- 1. A replacement (larger) building will fit on the current site, in the current building location +/-. This would require a swing space school.
- 2. A replacement (larger) building will fit on the current site, either partially or fully on the playfield and playground areas. This would allow the existing school to remain in operation during the construction of the new building.



Riverdale Elementary School Site (cont.)

Approach C-1: Replace the current Riverdale School with a larger school building using MSBA guidelines = Seven Section School - design population of 782 students at approx. 114,500 gsf, two- and three-story building volumes (site diagram below).

Approach C-2: This would provide for a larger = Eight Section School - design population of 920 students at approx. 132,000 gsf. This would have a similar site diagram but would increase in volume.

- 1. A replacement (larger) building will fit on the current site, in the current building location +/-. This would require a swing space school.
- 2. A replacement (larger) building will fit on the current site, either partially or fully on the playfield and playground areas. This would allow the existing school to remain in operation during the construction of the new building.



Oakdale Elementary School Site

- Site area: 7.00 +/- acres
- Current building area: 53,524 gsf, one- and three-story building volumes

Approach A-1: Replace the current Oakdale School with a slightly larger school building using MSBA guidelines = two section school - design population of 230 students at approx. 51,000 gsf, or a three section school – design population of 345 students at approx. 64,500 gsf, using one- and two-story building volumes (site diagram below).

Approach A-2: This is similar to Approach A-1 –. This would have a similar site diagram but would increase in volume.

It has not been determined is which school site receives the two-section school vs a three-section school.

- 1. It is assumed that the original 1902 portion of the current Oakdale School building would remain and be returned to the Town for reuse. The 1951 addition would be demolished to accommodate vehicular circulation, parking or play fields.
- 2. A replacement (larger) building will fit on the current site, either partially or fully on the playfield and playground areas. This would allow the existing school to remain in operation during the construction of the new building.



Oakdale Elementary School Site (cont.)

Approach B-1: Replace the current Oakdale School with a larger school building using MSBA guidelines = three section school - design population of 345 students at approx. 64,500 gsf, or a four section school – design population of 460 students at approx. 76,000 gsf., two- and three-story building volumes (site diagram below).

It has not been determined is which school site receives the three-section school vs a four-section school.

Approach B-2: This is similar to Approach B-1 – except both schools would be four section schools - design population of 460 students at approx. 76,000 gsf. This would have a similar site diagram but would increase in volume.



Oakdale Elementary School Site (cont.)

Approach C-1: Replace the current Oakdale School with a larger school building using MSBA guidelines = seven section school - design population of 782 students at approx. 114,500 gsf, two- and three-story building volumes (site diagram below).

Approach C-2: This would provide for a larger = eight section school - design population of 920 students at approx. 132,000 gsf. This would have a similar site diagram but would increase in volume.

- 1. It is assumed that the original 1902 portion of the current Oakdale School building would remain and be returned to the Town for repurposing. The 1951 addition would be demolished to accommodate vehicular circulation, parking or play fields.
- 2. A replacement (larger) building will fit on the current site, either partially or fully on the playfield and playground areas. This would allow the existing school to remain in operation during the construction of the new building.



Greenlodge Elementary School Site

- Site area: 16 acres
- Current building area: 51,000 gsf, one and two-story building volumes

Approach A-1: Replace the current Oakdale School with a slightly larger school building using MSBA guidelines = two section school - design population of 230 students at approx. 51,000 gsf, or a three section school – design population of 345 students at approx. 64,500 gsf, using one- and two-story building volumes (site diagram below).

Approach A-2: This is similar to Approach A-1 –. This would have a similar site diagram but would increase in volume.

It has not been determined is which school site receives the two-section school vs a three-section school.

- 1. A replacement (larger) building will fit on the current site, in the current building location +/-. This would require a swing space school.
- 2. A replacement (larger) building will fit on the current site, either partially or fully on the playfield and playground areas. This would allow the existing school to remain in operation during the construction of the new building.



Greenlodge Elementary School Site (cont.)

Approach B-1: Replace the current Greenlodge School with a larger school building using MSBA guidelines = Three Section School - design population of 345 students at approx. 64,500 gsf, or a Four Section School – design population of 460 students at approx. 76,000 gsf., two-and three-story building volumes (site diagram below).

It has not been determined is which school site receives the three-section school vs a four-section school.

Approach B-2: This is similar to Approach B-1 – except both schools would be Four Section Schools - design population of 460 students at approx. 76,000 gsf. This would have a similar site diagram but would increase in volume.

- 1. A replacement (larger) building will fit on the current site, either partially or fully on the playfield and playground areas. This would allow the existing school to remain in operation during the construction of the new building.
- 2. A replacement (larger) building will fit on the current site, either partially or fully on the playfield and playground areas. This would allow the existing school to remain in operation during the construction of the new building.



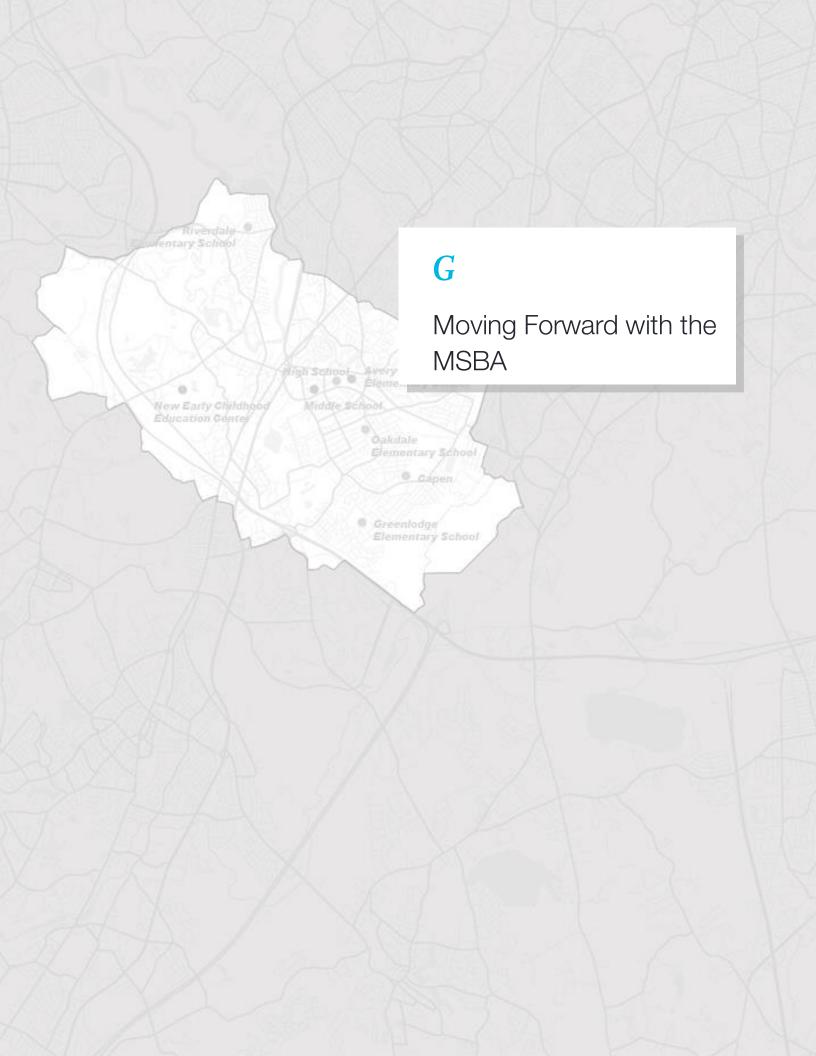
Greenlodge Elementary School Site (cont.)

Approach C-1: Replace the current Greenlodge School with a larger school building using MSBA guidelines = Seven Section School - design population of 782 students at approx. 114,500 gsf, two- and three-story building volumes (site diagram below).

Approach C-2: This would provide for a larger = Eight Section School - design population of 920 students at approx. 132,000 gsf. This would have a similar site diagram but would increase in volume.

- 1. A replacement (larger) building will fit on the current site, either partially or fully on the playfield and playground areas. This would allow the existing school to remain in operation during the construction of the new building.
- 2. A replacement (larger) building will fit on the current site, either partially or fully on the playfield and playground areas. This would allow the existing school to remain in operation during the construction of the new building.





Section G

Moving Forward with the Massachusetts School Building **Authority (MSBA)**

The MSBA Process

Engagement with the MSBA is formally initiated through the submission of an SOI, followed by an Eligibility Period and a Feasibility Study. This section describes those initial steps in detail, after which a prescriptive design and construction process follows.

Statement of Interest Process (SOI)

- 1. Submitting an SOI is the first critical step in the MSBA's program to partially fund the construction, renovation, addition or repair of municipally owned school facilities located in cities, towns and regional school districts.
- 2. The SOI allows districts to inform the MSBA about deficiencies that may exist in a local school facility and how those deficiencies inhibit the delivery of the district's educational program.
- 3. The district either submits under the Core (Capital) Program or the Accelerated Repairs program.
- 4. The SOI must identify one school for the Core Program, but the District or MSBA may request to include all three schools in the evaluation. (Even if multiple schools are studied, the one school identified must be improved or replaced through the Core Program).

MSBA Statement of Interest (SOI) Priorities

The SOI submitted by the District must identify which of the following SOI Priorities are relevant for their project.

- 1. Replacement or renovation of a building which is structurally unsound or otherwise in a condition seriously jeopardizing the health and safety of school children;
- 2. Elimination of existing severe overcrowding;
- 3. Prevention of the loss of accreditation;
- 4. Prevention of severe overcrowding expected to result from increased enrollments, which must be substantiated:
- 5. Replacement, renovation or modernization of school facility systems, such as roofs, windows, boilers, heating and ventilation systems, to increase energy conservation and decrease energy related costs in a school facility;
- 6. Short term enrollment growth;
- 7. Replacement of or addition to obsolete buildings in order to provide a full range of programs consistent with state and approved local requirements; and
- 8. Transition from court-ordered and approved racial balance school districts to walk-to, socalled, or other school districts.

Of the seven SOI Priorities, the Dedham Public Schools intends to submit under the two priorities (underlined above), Priorities Five and Seven.

MSBA Statement of Interest (SOI) Timeframe (Core Program)

January 2020: SOI period opened

April 8, 2020: SOI period closes for the core program

- Review SOI for Completeness
- Review SOI and accompanying documents for content
- · Conduct Senior study visits if required
- Recommend SOIs for initiation into Eligibility Period

Typically, MSBA releases eligible Accelerated Repair projects in June/July and Core Program (CP) Projects in December.

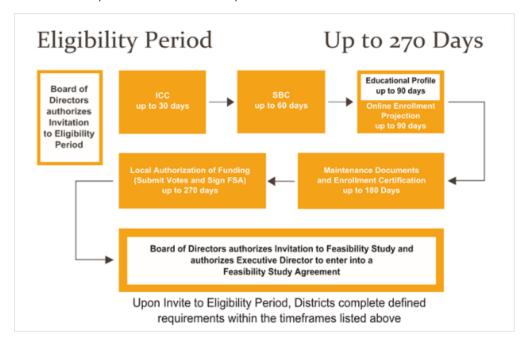
MSBA Eligibility Period (Module 1)

After acceptance into the Core Program, the District must successfully complete the following steps before they are authorized to commence with the Feasibility Study. The District has up to 10 months to complete these steps.

- Initial Compliance Certificate
- Form the School Building Committee

In place with the permanent SBRC

- 1. Complete educational profile
- 2. Submit District's Maintenance Practices
- 3. Certify Design Enrollment
- 4. VOTE the Feasibility Study Phase funding
- 5. Execute Feasibility Study Agreement (FSA)
- 6. Receive authorization to begin Feasibility Study
- 7. Process has up to 10 Months to complete



MSBA Feasibility Study (Module 3)

With the Owner's Project Manager and Designer in place, the District and its team collaborate with the MSBA to document their educational program / initial space summary, document existing conditions, develop and evaluate alternatives, and recommend the most cost effective and educationally appropriate preferred solution.

- 1. Test alternative sites, site solutions
- 2. Possibly explore alternative school sizes (populations)
- 3. Select a preferred solution
- 4. At this stage, the project becomes reimbursable

After the preferred solution (one site, one design/construction approach) is selected by the District and all local approvals are in place, the District and design team represent the preferred solution at the Facilities Assessment Subcommittee (FAS). The FAS makes their recommendation to the MSBA Board of Directors and the project then commences with Schematic Design of the preferred solution.

Schematic Design and Project Funding Agreement (Modules 4 and 5)

Following the Feasibility Study and the approval of the preferred solution by the MSBA Board of Directors, the District and design team commence with the design of that preferred solution. It is at the conclusion of Schematic Design that the first detailed cost estimate is available that is used to set the project budget for the remainder of the project lifetime. The Schematic Design, its program and budget must be approved by the District and Community and put forward to the MSBA Board of Directors once again. The MSBA uses this program and budget to finalize their Scope and Budget and Project Funding Agreements. At this point in time, the total reimbursable amount to the Town is known.

After all votes, approvals and funding (for Detailed Design through Construction) have been obtained, the project can move forward into Detailed Design and Construction.

Complete Grant and Implementation Timeframe

The following outline of phases and times represents an average proposed school building project that is part of the Massachusetts School Building Authority (MSBA) Capital Grant Program.

Statement of Interest (SOI) Process: 12 months Eligibility Period: 10 months Feasibility Study: 9 months Schematic Design: 6 months Development Design: 5 months Construction Documents: 8 months Construction: 24 months Close Out: 3 months

77 months¹ (all timeframes are approximate) Total:

¹ (6.5 years) - Assumes an "Invitation" based on the SOI initial submission

MSBA Building Process

Steps primarily for:



SOI Priorities – Oakdale

Based on the findings of the Master Plan to date, as well as the school's ranking in the MSBA Facilities Assessment (being in a higher priority category than Riverdale and Greenlodge), it is recommended to submit the SOI with the Oakdale School identified as that which should be substantially repaired or replaced through the Core Program.

The following section identifies the applicable MSBA SOI Priorities with relevant information from the Oakdale School existing conditions.

Priority Five - Replacement, renovation or modernization of school facility systems, such as roofs, windows, boilers, heating and ventilation systems, to increase energy conservation and decrease energy related costs in a school facility:

 Obsolete mechanical heating and ventilation system, no air conditioning (frequently too hot / too cold for teaching and learning)

From The EMG 2016 Report:

- The original three-story1902 building has a central steam boiler connected to a passive steam heating system and steam radiators. The building has steam heated Air Handler Units (AHUs) that appear to bring in fresh outdoor air to mix with internally heated air to classrooms.
- The 1952 wing has a central steam dual boiler system connected to unit ventilators and radiators.
- Supplemental units in the 1902 building include fan-driven exhaust ducts connected to the chimney to pull air up through the building and multiple unit heaters
- Supplemental units in the 1952 wing include vent fans and unit heaters
- Supplemental units in the 1960 end additions include electric baseboard and unit ventilators

- Inadequate electrical systems (see EMG Report)
- Window replacement needed all windows are listed as fair to poor in the EMG report. All but those in the basement of the 1092 building are singe glazed
- Lack of handicapped access to significant parts of the building and other accessibility issues
 - Door widths and clearances
 - Door hardware
 - Toilet fixtures and configurations
 - Vertical access to all teaching and learning spaces
 - Signage
 - Stair and handrail configurations



Stair connecting the 1902 original building with the 1951 and 1960 additions, no elevator or ramp connection

The 2016 EMG Report lists the following items as the most significant short term and modernization recommendations:

- · Replace tile flooring in the original multi-story building
- · Install backflow preventers on the two town water supply lines
- · Install additional exterior lighting for safety and security
- · Install a complete fire suppression system
- · Replace unit ventilators in classrooms based on life cycle
- · Replace all windows
- · Replace boilers when they reach the end of their useful life
- · Replace lighting fixtures based on life cycle
- · Maintain courtyard pavement
- · Cut and patch pavement on the west side
- · Modernize obsolete electrical panels
- · Replace failed fuel oil tank monitoring and alarm systems
- · Install fire-rated interior doors
- · Replace exterior doors as they pass the end of their useful life
- · Install a video monitoring system
- Replace original iron water supply piping with copper
- · Heat balancing and control system upgrade

- When at the end of their useful life, replace the underground No.2 fuel oil tanks
- · Repair and paint plaster ceilings and walls in the original multi-story building
- The building and inhabitants are not protected by a fire suppression system. Due to its construction date, the facility is most likely "grandfathered" by code and the installation of fire sprinklers not required until major renovations are performed. Regardless of when or if installation of facility-wide fire suppression is required by the governing municipality, EMG recommends a retrofit be performed. A facility-wide fire suppression retrofit is recommended for additional safety and security and to reduce liability and the cost of insurance. A budgetary cost is included.

The 2016 EMG Report also includes:

SPECIAL ISSUES AND FOLLOW-UP RECOMMENDATIONS

As part of the FCA, a limited assessment of accessible areas of the building(s) was performed to determine the presence of mold, conditions conducive to mold growth, and/or evidence of moisture. Property personnel were interviewed concerning any known or suspected mold, elevated relative humidity, water intrusion, or mildew-like odors. Sampling is not a part of this assessment.

Areas of suspect mold growth were observed along the masonry structure in the following areas:

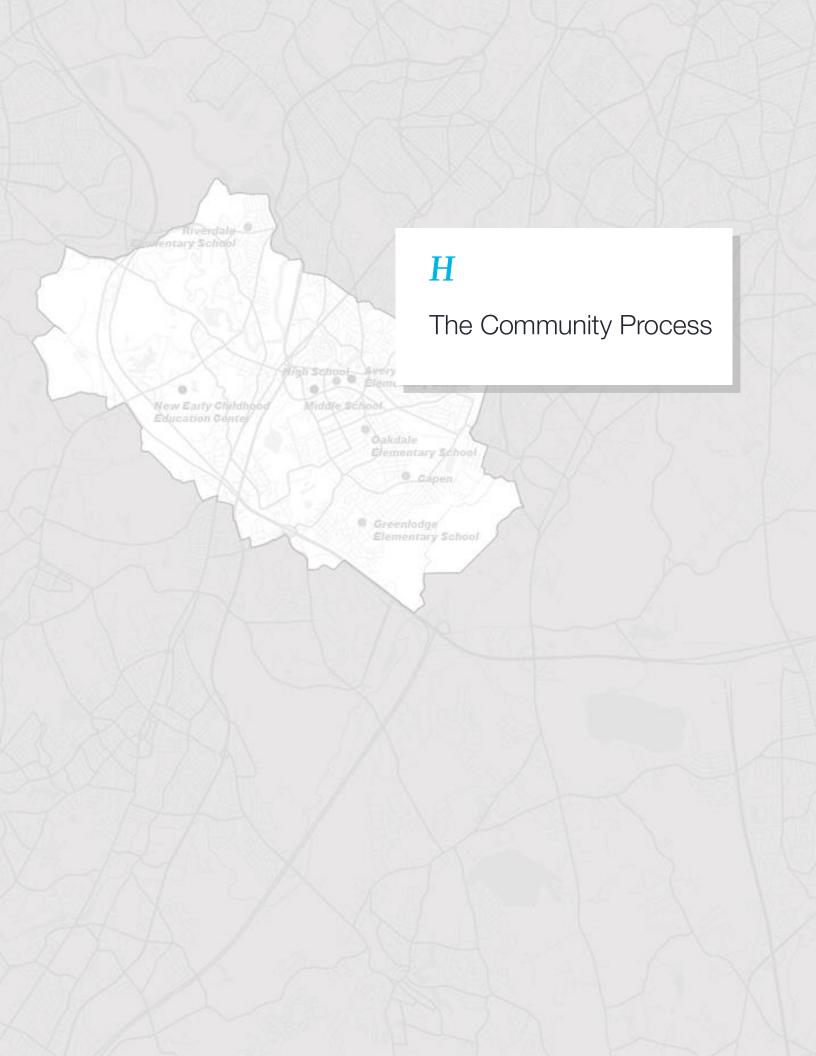
- · Outdoor alley between rooms 20 and 22, low on the walls and foundation
- Outdoor corner indent near the boiler room door where damaged gutter drains (north of classroom 14). Mold is low on the brick wall and concrete foundation.
- Outdoor wall near classrooms 21 and 22. Mold is on the brick wall and concrete foundation.

The mold appears to be the result of condensation from a stack of plywood in an area with limited ventilation. Exposure to mold or mold producing materials can be hazardous and should be avoided. The presence of mold does not necessarily constitute an exposure. This assessment does not constitute a comprehensive mold survey of the Project, and any conclusions are based solely on conditions readily observable in accessed areas.

Exterior mold occurs in the alley between rooms 20 and 22. Since mold is not evident in interior areas of the Project, there does not appear to be a significant health threat to the occupants of the Project. The affected exterior materials should be cleaned or removed as part of the property's routine maintenance program. The cost of this work is not included in the cost tables.

Priority Seven - Replacement of or addition to obsolete buildings in order to provide a full range of programs consistent with state and approved local requirements:

- Typical classrooms in the original building are significantly undersized, most others undersized
- No cafeteria (meals in classrooms)
- Undersized gym & library/media center
- Numerous issues with building conditions that impede teaching and learning:
 - antiquated lighting
 - control of the temperature in classrooms and other occupied spaces
 - ventilation
 - acoustics window single glazing; room materials and engineering system noise all contribute to higher than desirable background noise levels
- Issues related to safe and secure learning environments
 - Entry into the school is dependent on a phone/camera. The main office is located in a different portion of the building with no view of the accessible entrance. This means there is no control of a person once they are "buzzed in".
 - There is no way of automatically locking down portions of the building in a lock down condition.
- Need for additional Special Education spaces



SMMA

Section H

The Community Process, Summary of Community Meetings

SMMA, in collaboration with the School Department, School Committee and Dedham School Building Rehabilitation Committee, conducted a series of community forums, a Visioning workshop and listening events. (Note: PowerPoint presentations from each of the Community Meetings can be found in Appendix 2 of this report). A summary of each meeting/session has been provided below.

December 11, 2018

Dedham School Committee & School Rehabilitation Committee Joint Meeting

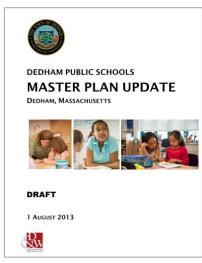
The December meeting was a kick-off to the Master Plan Update. It was an introduction to SMMA, the principal investigators, our portfolio of school district Master Plans, and our design experience with addition and renovation school projects and new school projects. The presentation included:

- Work done to date including data collection and review of previous studies
- Review of MSBA data Dedham Schools
- Educational Facility Effectiveness of schools
- Building Conditions of schools
- First review of classroom needs vs. classrooms available
- Initial review of district options

June 5, 2019

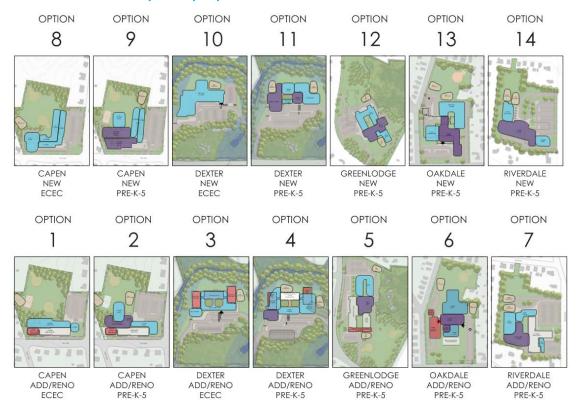
Community Kickoff Meeting

The June presentation included a review of prior school studies followed by SMMA's findings.



2013 Master Plan Update, by Dore and Whittier Architects

2015 ECEC Feasibility Study, by KBA Architects



$2016\ Facility\ Condition\ Assessment,\ by\ the\ EMG\ Corp.$



SMMA Reported Findings

- Findings from the Massachusetts School Building Authority (MSBA) 2016 School Survey Report
- 2. Review of the Capen building and site conditions and discussion of future (re)use
- 3. Dedham High School and its' many uses including the many District uses, beyond those of the high school academics
 - i DPS Central Administration including Business Office
 - ii DPS Facilities Department use
 - iii DPS Commissary Kitchen for all schools
 - iv Youth Commission Offices
 - v Athletics and Fitness Center
- 4. The high school is 307,300 square feet. A new high school using the MSBA Guidelines would be in the range of 159,000 GSF
- 5. The Educational Facilities Effectiveness of each school see Section D of this report
- 6. 2018-19 Enrollment Projections (note more recent projections are discussed in Section C)

October 15, 22 and 23, 2019

Individual School Update and Input Gathering Meetings

In mid-October, 2019, individual school update and input gathering meetings were held at each of Riverdale, Oakdale and Greenlodge Elementary Schools.

The agenda included:

- 1. Background on each School Facility
- 2. SMMA discussion on:
 - i Educational Facility Assessments
 - ii Enrollment Analysis
 - iii Space needs in the future for the anticipated population enrollments
 - iv The MSBA process moving forward towards a Capital Grant application
- 3. Community Engagement and Input much of the meeting was devoted to the School Department and Master Plan team listening to the concerns of the school community and answering questions of attendees. Some of the issues discussed included: District demographics; neighborhood schools; schedule; school size and culture, etc. These discussions set the framework for the December Community Workshop and January "Test Fit" exercises.

December 9, 2019

Dedham Public Schools Community Workshop #2

The December workshop included two primary components:

- 1. Environments for Learning: A presentation of photos of new and renovated school spaces that represent quality environments for delivering next generation learning. Schools shown are from Massachusetts and around the country.
- 2. Visioning: A workshop where attendees worked collaboratively on a range of issues / table topics specific to Dedham schools and the opportunities and challenges ahead for implementing one or multiple new or renovated schools.



Workshop Format Community Workshop #2 Agenda

In more detail, the meeting included the following information:

Introduction and Master Plan Goals – the School Committee, School Building Rehabilitation Committee (SBRC) and School Administration had previously identified their collective goals for the Master Plan project. Attendees were asked to keep these in mind as they worked on the Table Topics.

Goals

- Comprehensively rebuild or replace Oakdale, Riverdale and Greenlodge Elementary Schools
- Create a plan for schools that will meet the needs of all our students in the future and have the flexibility to accommodate them
- Develop a master plan where the elementary schools can serve the community well into the future with flexibility to accommodate changing educational needs

- Provide equity of facilities for all elementary children within the town
- To the extent possible, plan for school(s) that foster a small school / neighborhood environment and feeling
- Develop project(s) that are fiscally responsible and politically viable for the community

The following were also presented and opened for discussion

- The timeline for the completion of the Master Plan
- Development of a Statement of Interest (SOI) and submission to the Massachusetts School Building Authority (MSBA)
- Potential timeline for the design and construction of a or multiple school capital project(s). This is presented in years without tying to a calendar.

Educational Precedents – During the three sessions of the Community Meetings conducted in October 2019, attendees expressed an interest in seeing images of what new schools look like today. SMMA presented a slide show of renovated and new schools from both Massachusetts and across the country.

The focus was to understand show how buildings can not only embrace new teaching and learning methodologies but, in many cases, enhance experiences in the buildings. Areas of presentation included:

- Classroom arrangements and adjacencies that enhance the 21st Century Skills:
 - Communication
 - Collaboration
 - Creativity
 - Critical thinking and problem solving
- Flexible, light weight and ergonomic student and teacher furniture
- The Third Teacher the buildings' ability act as a teaching tool by showcasing how it is constructed; sustainable design components, graphics that are both aesthetic and instructional
- How learning commons can enhance classroom experiences
- Small group and pull over spaces that can be used by individuals to varying sizes of small groups for Special education, EL, differentiated and personalized learning
- The advantages of interior transparency
- Introduction of large amounts of natural light
- Fun spaces in which to learn
- Outdoor learning spaces
- etc.

A workshop format focused around eight (8) Table Topics – following a brief introduction of each table topic, attendees chose which topic they were most interested in.

- The charge was to "brainstorm" thoughts, ideas and concerns on the topic, no barriers. All thoughts were captured on large format flip chart paper and included in this report.
- Tables were asked to prioritize the thoughts and list three +/- with their highest priority. Also capture on flip chart paper.
- Each table presented, to the entire group, their prioritized list
- Final exercise each person was given three sticky dots: a green highest priority; yellow – next highest and red – third highest priority. All went on a "gallery walk" to identify individual priorities. These flip chart pages are also included in this report.

Table Topics Workshop

- **Topic 1:** Walkable / Neighborhood Schools (do we want to insert graphics for each Topic the slide introducing the topic from the PPT)
- **Topic 2:** Environmentally Responsible / Net Zero (Ready)
- **Topic 3:** Community Uses (Current / Potential)
- **Topic 4:** Cost and Schedule
- **Topic 5:** Renovation vs. New Building
- Topic 6: School Size / Culture
- **Topic 7:** Swing Space / Adjacent Construction
- **Topic 8:** Demographics

Participants prioritized and presented their three top issues, take ways or recommendations from each table.

Topic 1: Walkable/Neighborhood

Prioritized list of brainstorming thoughts, ideas and concerns

- 1. Maintain property values
- 2. Walkability
 - Community, environmentally friendly, health benefits and fewer transport costs
- 3. Creates a sense of community
 - You know the families, see the same folks/get to know them

- · Cozy, warm environment
- Neighborhood school good for property values
- Maintain district policies and parent preference on class six (small)
- Walkability (property values)
- Town funding for 3 schools (equity for kids...21 years out for last neighborhood school?
- Creates sense of community
 - o You "know" the kids around the neighborhood
- Environmentally friendly, good exercise (walking)
- School transport is expensive
- Traffic in Neighborhoods (not more)
- Bridge St/Riverdale 2020 sidewalks & bike lanes (leverage state funding)
- Invest in good elementary schools (e.g. ECEC grade schools...needs to feel "same")
 - Dedham is a desirable town
- Parking in the neighborhood (vs ECEC issue)
- Flexibility for future growth (limited with consolidation)

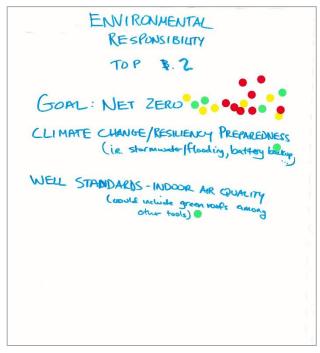


Topic 2: Environmental Responsibility/Net Zero (Ready)

Prioritized list of brainstorming thoughts, ideas and concerns

- 1. Goal: Net Zero
- 2. Climate change/resiliency preparedness (i.e. stormwater/flooding, battery backup etc.).
- 3. Well standards indoor air quality (could include green roofs among other tools).

- Stormwater Management / Plan For Climate Change
- Greywater collection
- Solar/Electric no gas
 - Explore geothermal, wind, battery backup
 - Green canopies
- EV charging stations
- Green roofs
- Efficient drop-off and pickup design and policy to decrease idling
- Smart lighting (adjust automatically to sunlight)
- Net-Zero or better GOAL
- WELL standards indoor air quality systems



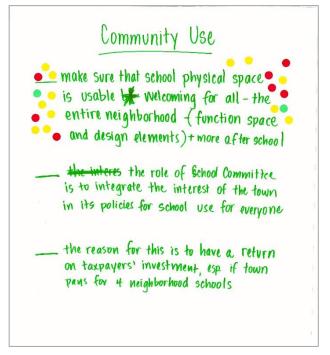


Topic 3: Community Use

Prioritized list of brainstorming thoughts, ideas and concerns

- 1. Make sure that school physical space is usable, welcoming for all the entire neighborhood (function space and design elements) + more after school.
- 2. The role of School Committee is to integrate the interest of the town in its policies for school use for everyone.
- 3. The reason for this is to have a return on taxpayers' investment, especially if town pays for 4 neighborhood schools.

- Additional uses for school use
 - Girl scouts, Boy scouts
 - Evening classes
- An adult education programs
- Consider current and possible uses of gym
- After school options enhanced like music in the school buildings and arts, athletics, maker spaces – more spaces for more variety in after school programming (+before school)
- Inter-generational activities and separate areas for inter-generational e.g. the chess and plants programs.
- Use the spaces as much as you can
- Schools are accessible and open to multi-use
- Schools that belong to everyone in the neighborhood and not just the kids in the neighborhood
- Design should be welcoming to people after hours
- Breaking down silos of town departments for multi-use of school (=town) property
- Better outreach to community members who don't have kids
- Community gardens
- Community walking paths
- Examine school district policies to encourage neighborhood use (custodial fee paid by out of town agencies)
- School committee responds to the interests of the entire community





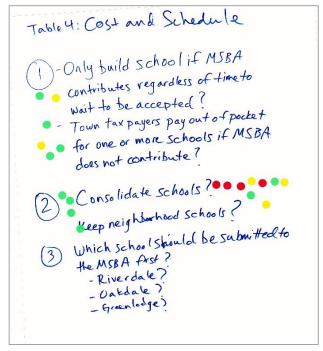


Topic 4: Cost and Schedule

Prioritized list of brainstorming thoughts, ideas and concerns

- 1. Only build school if MSBA
 - Contributes regardless of time to wait to be accepted.?
 - Town taxpayers pay out of pocket for one or more schools if MSBA does not contribute?
- 2. Consolidate schools?
 - Keep neighborhood schools?
- 3. Which school should be submitted to the MSBA first?
 - · Riverdale?
 - · Oakdale?
 - · Greenlodge?

- Neighborhood schools are high priority
- Public safety building may preclude town funded building
- Who pays what?
- Concern about qualifying for MSBA funding... if we keep area schools w/pop <300 students
- Oakdale has most available space
- Concern about overlapping costs of multiple buildings
- Robin Reyes fund help with funding
- State funding w/their rules vs Town funding and our rules and plans





Topic 5: Renovation vs New Building

Prioritized list of brainstorming thoughts, ideas and concerns

- 1. Combine Greenlodge/Oakdale (new) (1)
 - · Riverdale (new) (2)
 - · Avery (exists) (3)
 - · Close 1 existing school
- 2. One MSBA funded (new) / one town-funded (reno) Greenlodge to speed up timeline of completion
- 3. Grade configuration changes
 - 1-4
 - . 5-6-7
 - . 8-12

- New vs Old parts of buildings always playing catch up
- Is Greenlodge more conducive to renovation?
- Do the footprints allow for new being built while other building remains?
- Parking with renovation or new?
- Footbridges for traffic?
- Field space large enough for building new?
- What are the conditions of the current land around the schools for building?
- Does it make sense to discuss combining schools so as not to risk funding?
- Opportunity to drop to 3 elementary schools?
- One Large & Avery?
- Combine
 - Greenlodge\Oakdale (new)
 - o Oakdale (new)/ Riverdale(new)
 - Avery
- Consideration of grades
 - 0 1-4
 - o 5-6-7 MS
 - o 8-12 HS
- One MSBA funded / One Town funded quicker timeline



Topic 6: School Size/Culture

Prioritized list of brainstorming thoughts, ideas and concerns

- 1. Neighborhood schools build culture and improve access/walkability and close community engagement.
- Getting construction/updates done as soon as possible will improve equity of educational experiences for all neighborhoods.
- 3. Potential efficiency of scale in larger school

Full list of brainstorming thoughts, ideas and concerns

Smaller School

Advantage

- Proximity to neighborhood/walkability
- School pride / culture
- · Knowing every kid / relationship
- Relationships with parents

Disadvantage

- Project timeline
- Cost harder to adjust to changing demographics / redistricting
- Deciding order of renovation/rebuilding

Larger School

Advantages

- Done faster
- Less money (\$)
- Flexible spaces?
- Professional support

Disadvantages

- Distance
- Traffic/Cost
- Fewer walking
- Less community

Neighborhood schools build culture.

and improve access/walkability and close community engagement.

Getting construction/updates done as soon as possible will improve equity of educational experiences for all neighborhoods.

Potential efficiency of scale in larger school



Topic 7: Swing Space

Prioritized list of brainstorming thoughts, ideas and concerns

- 1. Swing Space
 - · Modulars
 - Build behind existing
 - · Reno of Capen (or modulars on Capen)
 - Divide students of one school into other 3 while under construction
- 2. Considerations
 - Compromising education
 - Consolidating from 3 to 2 or rebuilding 3 schools (or 1 mega school)
 - · Cost of each plan

Full list of brainstorming thoughts, ideas and concerns

Questions

- Is there space on each of the existing school's property to build while keeping students in the school?
- Is there space to set-up modulars?
- Would we reno Capen to use as swing space?
- If consolidating into 2 schools, would student body be split into swing space?

Modulars are not reimbursed by MSBA Reno of Capen could be cost or more of modulars.

- Modulars
- Build behind existing
- Reno of capen (or modulars on capen)
- Divide students of one school into other 3 schools while under construction

Options for Swing Space

- Modulars on site
- New construction on site while stay in old building
- Reno of Capen-swing
- Modular school on alternate site-swing
- Split students into other schools





Topic 8: Demographics

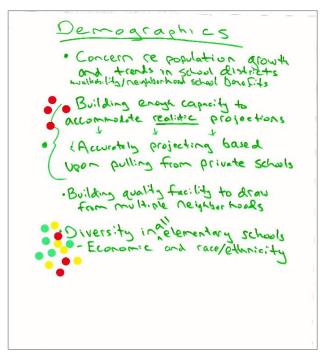
Prioritized list of brainstorming thoughts, ideas and concerns

- 1. Concern RE population growth and trends in school districts walkability/neighborhood school benefits
- 2. Building enough capacity to accommodate realistic projections
 - Accurately projection based upon pulling from private schools
- 3. Building quality facility to draw from multiple neighborhoods
- 4. Diversity in all elementary schools
 - Economic and race/ethnicity

Full list of brainstorming thoughts, ideas and concerns

Considerations

- Compromising education
- Consolidating from 3 to 2 or rebuilding 3 schools (or 1 mega school)
- · Cost of each plan



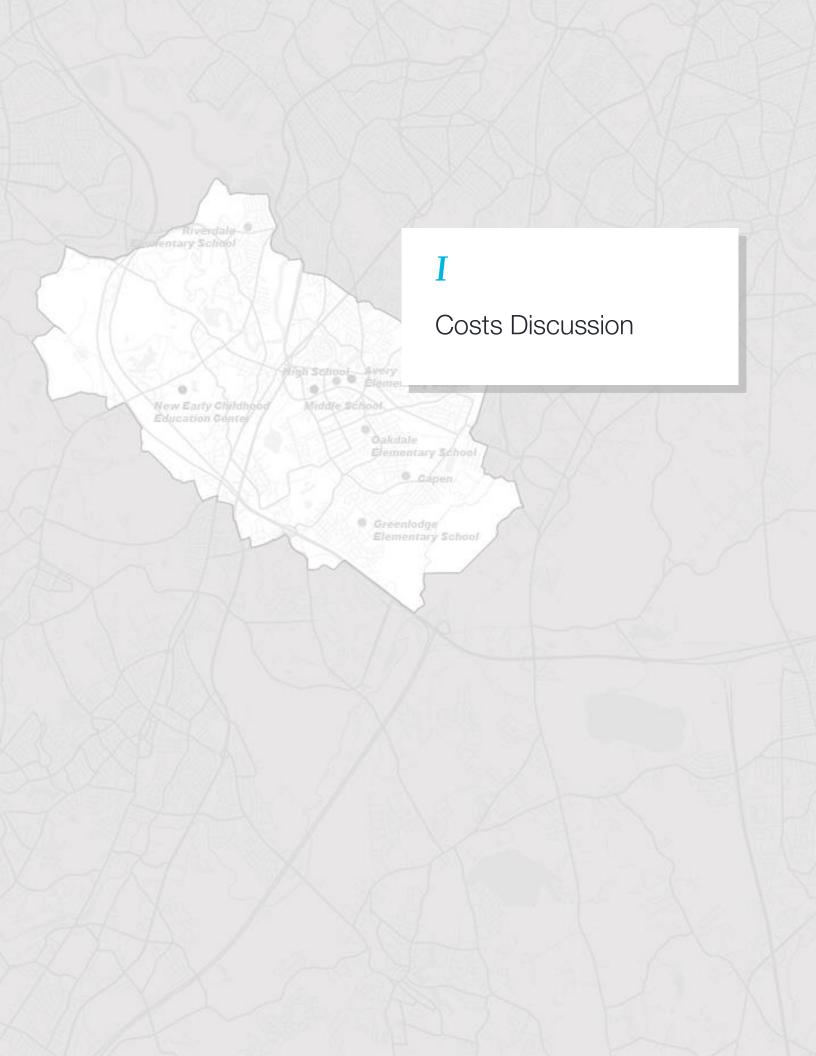


January 13, 2020

Test Fitting - Three Existing School Sites

The final workshop held in January 2020 focused on the three elementary school sites and their ability to accommodate: (see Section F for all Conceptual Approaches explored)

- A new building of varying building sizes and populations were explored for each school site
- Arrival and dismissal drive lanes for busses and parents
- Parking for staff, visitors and handicapped
- Age appropriate playgrounds
- Playfields to the extent possible





Section I

Costs Discussion

Probable costs are a function of a number of factors including but not limited to construction schedule, market conditions, complexity, and what is known as the project delivery method. This Section is intended to capture factors and decisions that can impact costs at a very high level and to provide an understanding of design and construction cost vocabulary.

Cost Considerations

Construction Schedule, Escalation and Market Conditions

The **Construction Schedule** is important in order to determine the escalation that must be applied to the present-day cost estimate and to inform the construction contractor's level of effort. A compressed schedule may require overtime or weekend work which may cause the contractor to submit a higher bid. A schedule that is very long may also cause higher bid costs because the management and oversight for that contract is drawn out for a longer period of time. The project team will advise the Town of what construction duration may be anticipated based on the size and nature of the project and will discuss schedule impact and influences with the project team in detail after the scope is defined.

Escalation, over the past few years, escalation has run in the range of 4% annually. This escalated pricing should be applied to the mid-point of construction and is evaluated with each design submission. The closer the project gets to the bid date, the lower the escalation will be.

Market Conditions are an important influence to construction costs. When the construction industry is saturated, it may be harder to find labor which can result in higher costs, material costs may be influenced by availability and the political climate or tariffs. The professional cost estimators take these factors into consideration but cannot predict what will happen.

Project Complexity

The project complexity can have an impact on the construction cost in many ways. Phased projects may have schedule/delay risks because they are relying on being able to move from one area to the next. Renovation projects may have schedule/delay and scope risks depending on the amount of information that the design team was able to collect on the existing conditions. A more recent complexity is the endeavor to ask for Passive House and Netzero buildings. These sustainability goals are raising the bar for workmanship and quality control during construction that contractors may, due to their current "novelty," feel the need to increase bids for to protect themselves from risk.

Construction Delivery Method

There are two options for MSBA construction contract procurement in Massachusetts. They are referred to as Chapter 149 and Chapter 149a which is a reference back to the section of the Massachusetts General Law that defines the two methods.

A **Chapter 149a** project is a "Construction Manager at Risk" delivery method, which means that you share project cost/construction risk with the construction contractor / construction

manager. This is done by bringing a construction manager on board during the design phase (typically after Schematic Design is complete but before Design Development documents are complete). The contractor provides input during the design process that should reduce change orders during construction, therefore reducing risk to the town. They can also provide advice on construction alternatives that may result in cost savings. This method is typically selected for occupied or phased renovation or addition/renovation projects because of their complexity. It allows for early start of construction for some phases and can expedite a project schedule. Due to this early involvement, and the fact that the contractor is to submit a Guaranteed Maximum Price to construct the project before the design is complete, this procurement method has a higher cost. In an ideal scenario, these costs may be offset by being able to complete the project more quickly and with fewer change orders.

A **Chapter 149** project is a "design-bid-build" delivery method which means that you have completed the design documents entirely before putting the project out for contractors to bid. After the bid, the *build* commences. Using this delivery method is known to have less upfront costs because you are not paying for the involvement and risk of the Construction Manager, but the Town does assume more risk for change orders. It becomes of high importance to have high quality design documents for bid to reduce this risk.

There are many pros and cons to consider when selecting your construction delivery method and this is typically not decided until the project has been defined in the Feasibility Study, at which time the project team will weigh the two options in much more detail.

Vocabulary

Construction Costs vs, Project Costs

Construction Costs refers to the bid / contract amount paid to the contractor or Construction Manager - "the cost of bricks and mortar".

Project Cost refers to the construction cost and includes other necessary related and Soft Costs needed for a complete project. It includes items such as:

- Furnishings and Equipment
- Owners Project Management fees
- Design fees including architects, engineers, specialty consultants, cost estimating, site survey, geotechnical and many others.
- Note that debt service and other financial costs are not included in the Project Costs

Contingency

Contingencies may appear in estimates in as many as three places. The construction cost estimate that will include an "estimating" or "design contingency" that is high at the beginning of the design phase (typically 15% in Feasibility and Schematic Design) and decreases to 0% when the design documents are complete. This contingency is intended to cover unknowns during the design process. As the design becomes more defined and detailed, the unknowns are eliminated. "Owner's contingency" is there to cover change orders during construction. Construction Manager (CM) contingency is to cover the CM for unknowns when they submit their bid for the project.

All of these factors will be weighed by your project team, discussed with you, and will be used to inform the project estimate.



SMMA

Appendices

Appendix 1 - NESDEC Enrollment Projections

Appendix 2 - Communities Meetings and Visioning

- December 11, 2018
 Dedham School Committee & School Rehabilitation Committee Joint Meeting
- June 5, 2019
 Community Kickoff Meeting
- October 15, 22, 23, 2019 Individual School Update and Input Gathering Meetings
- December 9, 2019
 Dedham Public Schools Community Workshop #2 Environments for Learning
- January 13, 2020
 Test Fitting Three Existing School Sites

Appendix 3 – Summary of Spaces

- 2 Section School
- 3 Section School
- 4 Section School
- 7 Section School
- 8 Section School

Appendix 4 – Glossary of Terms for School Planning and Design



Dedham, MA Historical Enrollment

School District: Dedham, MA 10/29/2019

	Historical Enrollment By Grade																		
Birth Year	Births	School Year	PK	К	1	2	3	4	5	6	7	8	9	10	11	12	UNGR	K-12	PK-12
2004	302	2009-10	131	199	231	233	228	205	234	217	204	242	206	218	201	161	0	2779	2910
2005	246	2010-11	131	189	214	235	233	226	205	231	211	201	224	190	196	197	0	2752	2883
2006	276	2011-12	124	197	207	206	234	227	234	201	233	215	179	215	191	199	0	2738	2862
2007	271	2012-13	116	233	209	204	210	233	232	228	192	227	181	179	214	202	0	2744	2860
2008	280	2013-14	99	212	231	208	205	213	225	239	223	196	187	183	181	217	0	2720	2819
2009	266	2014-15	109	194	238	237	204	210	204	230	233	217	165	180	184	171	0	2667	2776
2010	263	2015-16	112	182	186	225	243	202	213	213	223	230	185	162	186	185	0	2635	2747
2011	259	2016-17	96	186	177	193	219	244	205	203	213	215	208	180	159	191	0	2593	2689
2012	256	2017-18	95	171	199	174	199	220	255	197	198	207	186	198	188	162	0	2554	2649
2013	270	2018-19	98	200	176	205	183	209	215	255	194	198	170	188	203	187	0	2583	2681
2014	297	2019-20	129	229	196	186	207	182	211	221	258	195	169	170	178	199	6	2607	2736

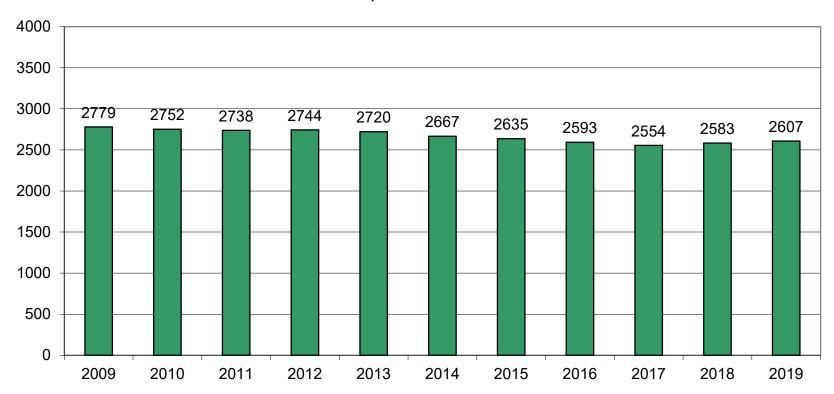
	Historical Enrollment in Grade Combinations										
Year	PK-K	1-5	K-5	K-8	5-8	6-8	7-8	7-12	9-12		
2009-10	330	1131	1330	1993	897	663	446	1232	786		
2010-11	320	1113	1302	1945	848	643	412	1219	807		
2011-12	321	1108	1305	1954	883	649	448	1232	784		
2012-13	349	1088	1321	1968	879	647	419	1195	776		
2013-14	311	1082	1294	1952	883	658	419	1187	768		
2014-15	303	1093	1287	1967	884	680	450	1150	700		
2015-16	294	1069	1251	1917	879	666	453	1171	718		
2016-17	282	1038	1224	1855	836	631	428	1166	738		
2017-18	266	1047	1218	1820	857	602	405	1139	734		
2018-19	298	988	1188	1835	862	647	392	1140	748		
2019-20	358	982	1211	1885	885	674	453	1169	716		

Historica	Historical Percentage Changes								
Year	K-12	Diff.	%						
2009-10	2779	0	0.0%						
2010-11	2752	-27	-1.0%						
2011-12	2738	-14	-0.5%						
2012-13	2744	6	0.2%						
2013-14	2720	-24	-0.9%						
2014-15	2667	-53	-1.9%						
2015-16	2635	-32	-1.2%						
2016-17	2593	-42	-1.6%						
2017-18	2554	-39	-1.5%						
2018-19	2583	29	1.1%						
2019-20	2607	24	0.9%						
Change	•	-172	-6.2%						



Dedham, MA Historical Enrollment

K-12, 2009-2019





Dedham, MA Projected Enrollment

School District: Dedham, MA 10/29/2019

	Enrollment Projections By Grade*																			
Birth Year	Births		School Year	PK	K	1	2	3	4	5	6	7	8	9	10	11	12	UNGR	K-12	PK-12
2014	297		2019-20	129	229	196	186	207	182	211	221	258	195	169	170	178	199	6	2607	2736
2015	304		2020-21	130	221	234	201	192	210	184	209	219	256	166	167	171	178	6	2614	2744
2016	279		2021-22	131	203	225	239	207	195	212	183	207	217	218	164	168	171	6	2615	2746
2017	271	(prov.)	2022-23	132	197	207	230	246	210	197	210	181	205	184	215	165	168	6	2621	2753
2018	293	(prov.)	2023-24	133	213	201	212	237	250	212	196	208	180	174	182	216	165	6	2652	2785
2019	289	(est.)	2024-25	134	210	217	206	219	241	253	210	194	206	153	172	183	216	6	2686	2820
2020	287	(est.)	2025-26	135	209	214	222	212	223	244	251	208	193	175	151	173	183	6	2664	2799
2021	284	(est.)	2026-27	136	206	213	219	229	215	225	242	249	206	164	173	152	173	6	2672	2808
2022	285	(est.)	2027-28	137	207	210	218	226	233	217	223	240	247	175	162	174	152	6	2690	2827
2023	288	(est.)	2028-29	138	209	211	215	225	230	235	215	221	238	210	173	163	174	6	2725	2863
2024	286	(est.)	2029-30	139	208	213	216	222	229	232	233	213	219	202	207	174	163	6	2737	2876

Note: Ungraded students (UNGR) often are high school students whose anticipated years of graduation are unknown, or students with special needs - UNGR not included in Grade Combinations for 7-12, 9-12, etc.

Based on an estimate of births

Based on children already born

Based on students already enrolled

	Projected Enrollment in Grade Combinations*									
Year	PK-K	1-5	K-5	K-8	5-8	6-8	7-8	7-12	9-12	
2019-20	358	982	1211	1885	885	674	453	1169	716	
2020-21	351	1021	1242	1926	868	684	475	1157	682	
2021-22	334	1078	1281	1888	819	607	424	1145	721	
2022-23	329	1090	1287	1883	793	596	386	1118	732	
2023-24	346	1112	1325	1909	796	584	388	1125	737	
2024-25	344	1136	1346	1956	863	610	400	1124	724	
2025-26	344	1115	1324	1976	896	652	401	1083	682	
2026-27	342	1101	1307	2004	922	697	455	1117	662	
2027-28	344	1104	1311	2021	927	710	487	1150	663	
2028-29	347	1116	1325	1999	909	674	459	1179	720	
2029-30	347	1112	1320	1985	897	665	432	1178	746	

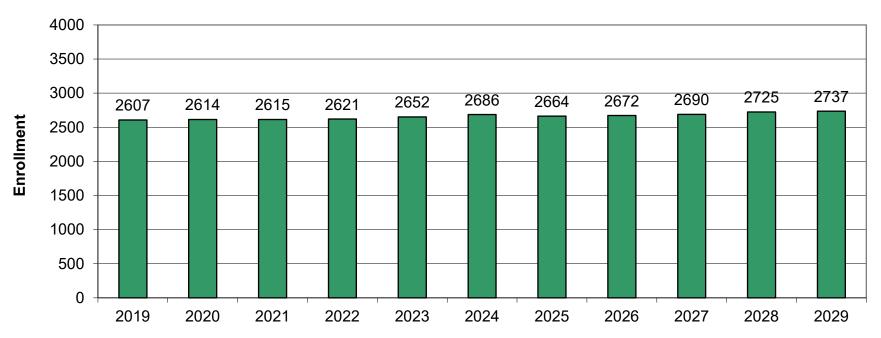
Project	Projected Percentage Changes							
Year	K-12	Diff.	%					
2019-20	2607	0	0.0%					
2020-21	2614	7	0.3%					
2021-22	2615	1	0.0%					
2022-23	2621	6	0.2%					
2023-24	2652	31	1.2%					
2024-25	2686	34	1.3%					
2025-26	2664	-22	-0.8%					
2026-27	2672	8	0.3%					
2027-28	2690	18	0.7%					
2028-29	2725	35	1.3%					
2029-30	2737	12	0.4%					
Change		130	5.0%					

^{*}Projections should be updated annually to reflect changes in in/out-migration of families, real estate sales, residential construction, births, and similar factors.



Dedham, MA Projected Enrollment

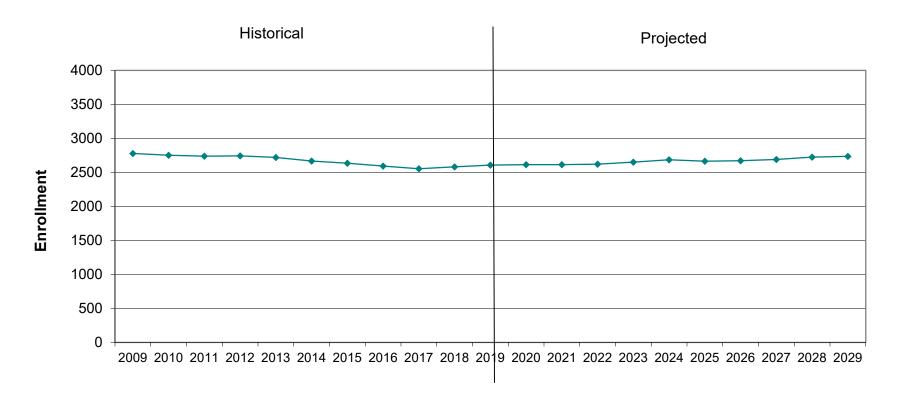
K-12 To 2029 Based On Data Through School Year 2019-20





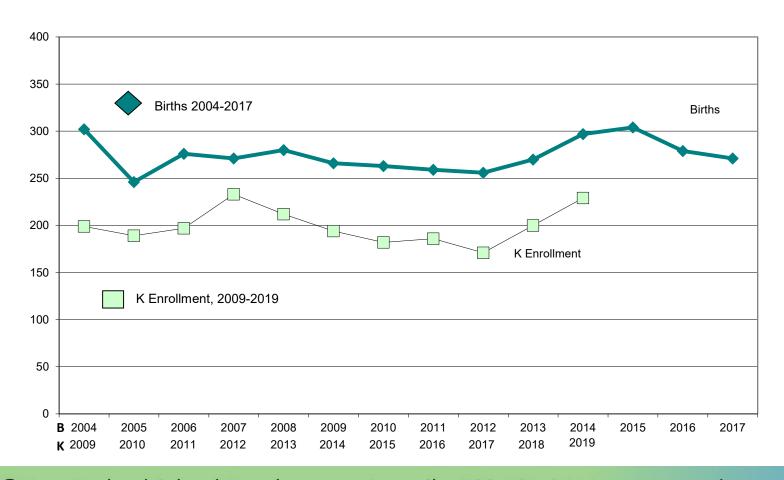
Dedham, MA Historical & Projected Enrollment

K-12, 2009-2029





Dedham, MA Birth-to-Kindergarten Relationship





Dedham, MA Additional Data

	Building Permits Issued								
Year	Single-Family	Multi-Units							
2005	16	6							
2015	14	0							
2016	10	0							
2017	19	18							
2018	15	0							
2019	17 to date	0 to date							

Source: HUE	and Building	Department

Enrollment History					
Career-Tech Non-Public Year 9-12 Total K-12 Total					
2005-06	62	606			
2015-16	110	582			
2016-17	104	558			
2017-18	101	555			
2018-19	104	555			
2019-20	113	508			

Residents in Non-Public Independent and Parochial Schools (General Education)														
Enrollments	K	1	2	3	4	5	6	7	8	9	10	11	12	K-12 TOTAL
as of Oct. 1	39	21	29	23	33	30	26	49	45	44	44	59	66	508

K-12 Home-Schooled Students				
2019	24			

K-12 Residents in Charter or Magnet Schools, or "Choiced-out"					
2019 42					

K-12 Special Education Outplaced Students				
2019 46				

K-12 Tuitioned-In, Choiced-In, & Other Non- Residents				
2019 32				

The above data were used to assist in the preparation of the enrollment projections. If additional demographic work is needed, please contact our office.

SMMA

Facilities Master Plan

Test Fitting – Three Existing School Sites

January 13, 2020, Revised February 27, 2020







Agenda

- Introductions
- Community Engagement / Input
- Demographics
- Test Fits
 - Three School Sites
 - Alternative Populations
 - Multiple School Options
- Q&A

SMMA: Who We Are



Principal-in-Charge /
Educational Planner
Philip Poinelli
FAIA, ALEP



Froject Manager
Kristen M. Olsen
AIA, MCPPO



Architecture
Cam Leandri

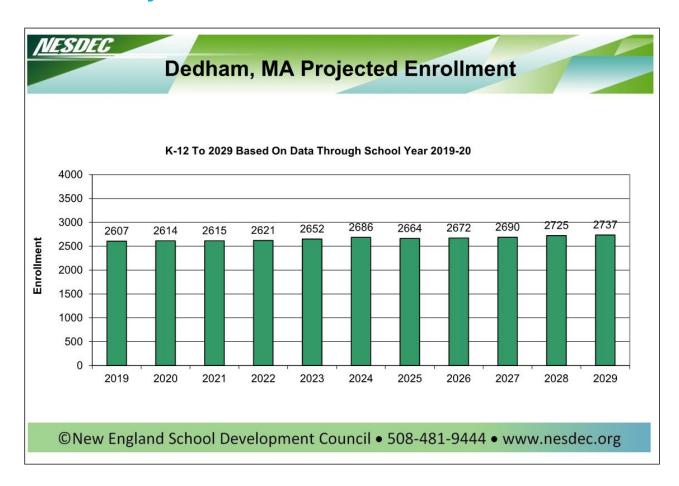


Civil Engineering
Peter Rebuck

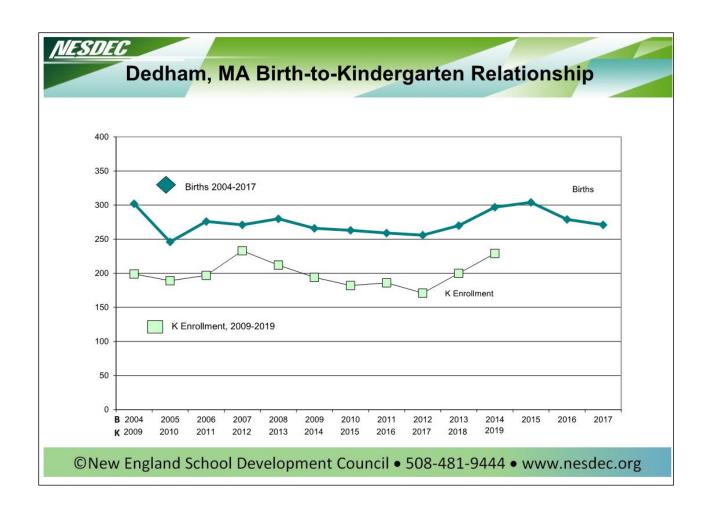
Community Engagement

- Individual School Update and Input Gathering Meetings
 - October 15 Greenlodge Elementary School
 - October 22 Riverdale Elementary School
 - October 23 Oakdale Elementary School
- Environments for Learning Workshop
 - December 9
- Test Fits Tonight
 - Three School Sites
 - Alternative Populations
 - Multiple School Options

Enrollment Projections



Birth Rate



Demographics Discussion

Planning with Flexibility in Mind

- Waiting List for PreK = Assume Increasing Demand
- New Elementary School(s) = Assume Increasing Demand
 - If you build it, they will come
- Plan for Multiple Population Projections (grades 1–5)
 - 1,125 students (NESDEC)
 - 1,250 students Alternative Projection (250 students / grade)
- Number of New Schools 1, 2 or 3 + Avery to Remain

Demographics

Total projected ES population 1,125 to 1,250 students

Population at Avery 345 students

Total for Oakdale, Riverdale, 780 to 920 students Greenlodge

How are the three schools replaced?

One School 782 students to 920 students

Two Schools 345 students to 460 students (@ each school)

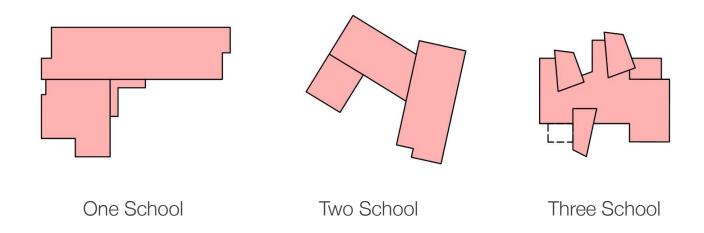
Three Schools 230 students to 345 students (@ each school)

SITE TEST FITS

(No decisions or choices will be made at this Master Planning stage)

Test Fit Variables

- Building Sizes (gross square feet) vary depending on number of students
- Two-Story or Three-Story solutions affect building footprints



Three Sites











Riverdale 6.1 acres

Oakdale 6.9 acres

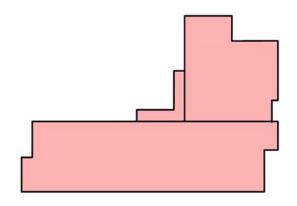
Greenlodge 16.7 acres

Approach 1 - One New or Renovated School

One school to replace the three existing schools

Two school populations / building sizes are identified

- 700 total students = 106,000 gross square feet
 or
- 925 total students = 132,000 gross square feet



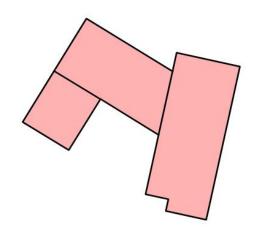
3 stories at both 106,000 or 132,000 GSF

Approach 2 - Two New or Renovated Schools

Two schools to replace the three existing schools (2 of 3 existing sites)

Two school populations / building sizes are identified

- 350 total students = 65,000 gross square feet or
- 463 total students = 77,000 gross square feet



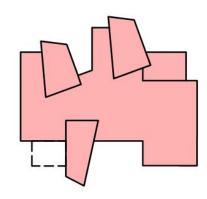
2 stories at 65,000 GSF 3 stories at 77,000 GSF

Approach 3 - Three New or Renovated Schools

Three schools to replace the three existing schools (one at each existing sites)

Two school populations / building sizes are identified

- 233 total students = 53,000 gross square feet or
- 308 total students = 60,000 gross square feet

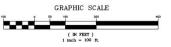


2 stories at both 53,000 or 60,000 GSF

Approach 1 – Riverdale – 782 to 920 students

114,500 to 132,000 gross square feet

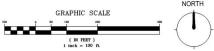




Approach 1 – Oakdale – 782 to 920 students

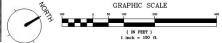
114,500 to 132,000 gross square feet





Approach 1 – Greenlodge – 782 to 920 students 114,500 to 132,000 gross square feet

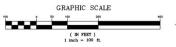




Approach 2 – Riverdale – 345 to 460 students

64,500 to 76,000 gross square feet

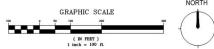




Approach 2 – Oakdale – 345 to 460 students

64,500 to 76,000 gross square feet





Approach 2 – *Greenlodge – 345 to 460 students* 64,500 to 76,000 gross square feet

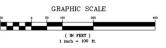




Approach 3 – Riverdale – 230 to 345 students

51,000 to 64,500 gross square feet

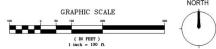




Approach 3 – Oakdale – 230 to 345 students

51,000 to 64,500 gross square feet



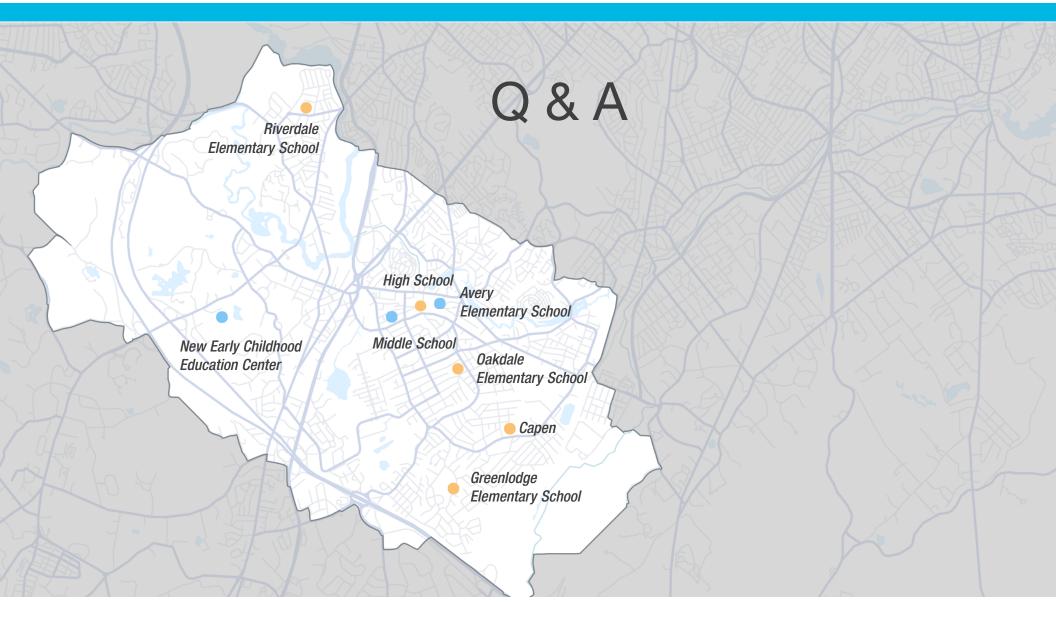


Approach 3 – Greenlodge – 230 to 345 students

51,000 to 6,500 gross square feet







SMMA

Dedham Public Schools Community Workshop #2 Environments for Learning

December 9, 2019

Table Topics Workshop

Topic 1: Walkable / Neighborhood Schools

Topic 2: Environmentally Responsible / Net Zero (Ready)

Topic 3: Community Uses (Current / Potential)

Topic 4: Cost and Schedule

Topic 5: Renovation vs. New Building

Topic 6: School Size / Culture

Topic 7: Swing Space / Adjacent Construction

Topic 8: Demographics

Schedule



Workshop Format



"Most important to you"

Dedham Master Plan Goals

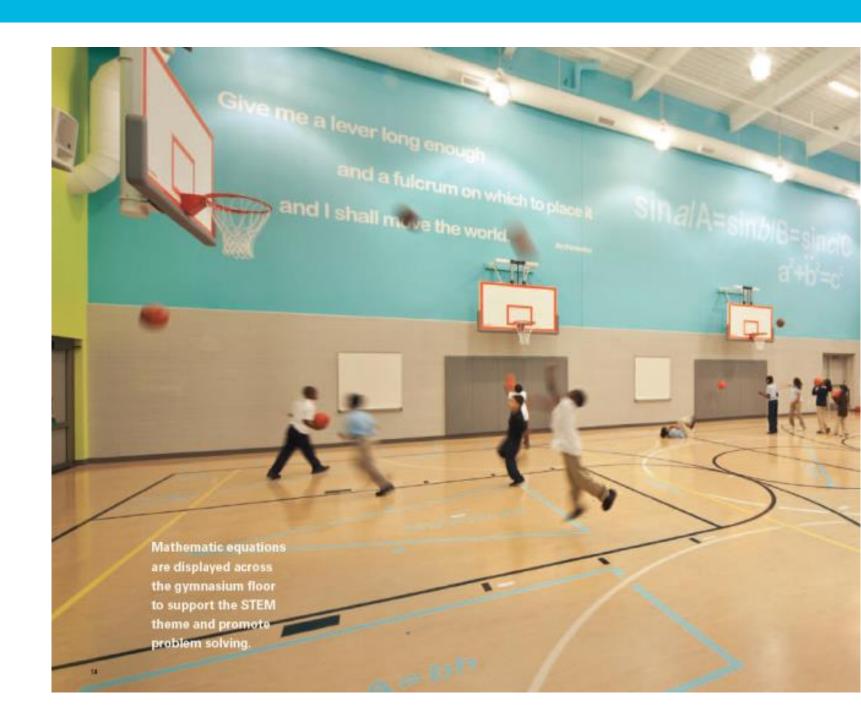
- Comprehensively rebuild or replace Oakdale, Riverdale and Greenlodge Elementary Schools
- Create a plan for schools that will meet the needs of all our students in the future and have the flexibility to accommodate them
- Develop a master plan where the elementary schools can serve the community well into the future with flexibility to accommodate changing educational needs
- Provide equity of facilities for all elementary children within the town
- To the extent possible, plan for school(s) that foster a small school / neighborhood environment and feeling
- Develop project(s) that are fiscally responsible and politically viable for the community

School Environments Designed to Promote:

- Project / Problem Based Learning
- Social Emotional Learning
- Joy
- Differentiation and Personalization
- STEM / STEAM / STREAM
- Peer to PEER Learning
- The Third Teacher
- Learning Through Play
- Universal Design for Learning

Entire Building and Site as Learning Environments

Booker T. Washington STEM Academy, Champaign IL. – Cannon Design



Flexible Learning Spaces



EXTERIOR VISUAL CONNECTION

INTERIOR VISUAL CONNECTION

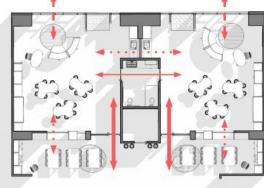
INTERIOR PHYSICAL CONNECTION

- 1) INTERACTIVE TECHNOLOGY
- (2) STUDENT STORAGE
- 3) READING NOOK
- TEACHER WASHING / RESOURCE
- (5) ENTOURAGE / GROUP DINING + ARTS
- 6 ENTOURAGE STORAGE
- (7) HANDS-ON ACTIVE LEARNING
- 8 FOCUSED GROUP LEARNING
- 9 PERFORMANCE PLATFORM
- FERIORMANCE FEATIC
- STUDENT WASHING
- (11) SHARED STUDENT TOILETS





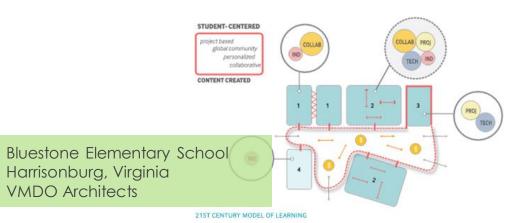




VISIBLE + PHYSICAL CONNECTIONS

Agile, Adaptable Learning Spaces

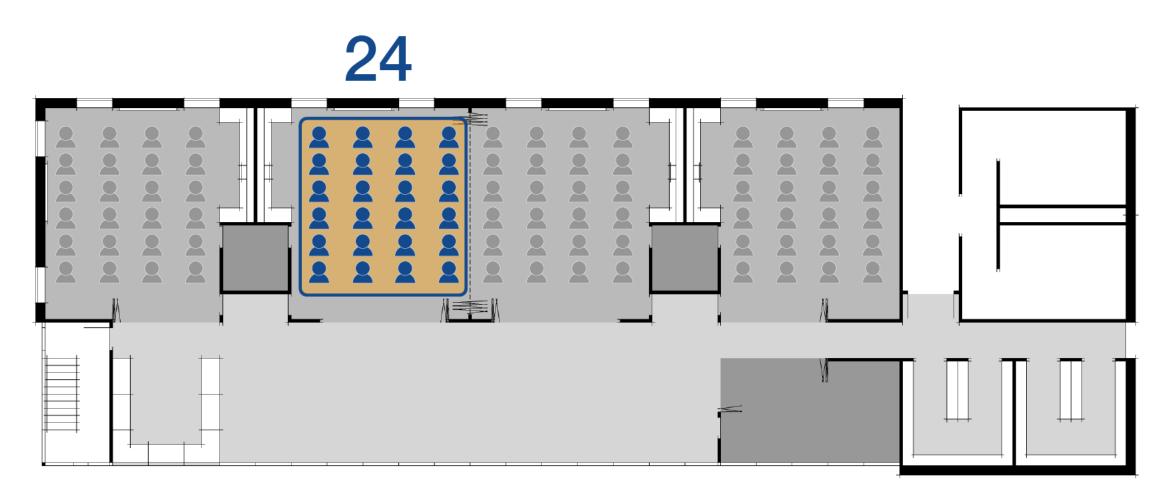
During the planning process, educators expressed a desire for team teaching. The resulting design promotes teacher and student collaboration and individualized learning by creating spatially-diverse neighborhood environments that provide a variety of flexible scales and arrangements. Breakout spaces and resource hubs are distributed throughout the neighborhood to empower one-on-one collaborations that complement the project-based work occurring in studios.

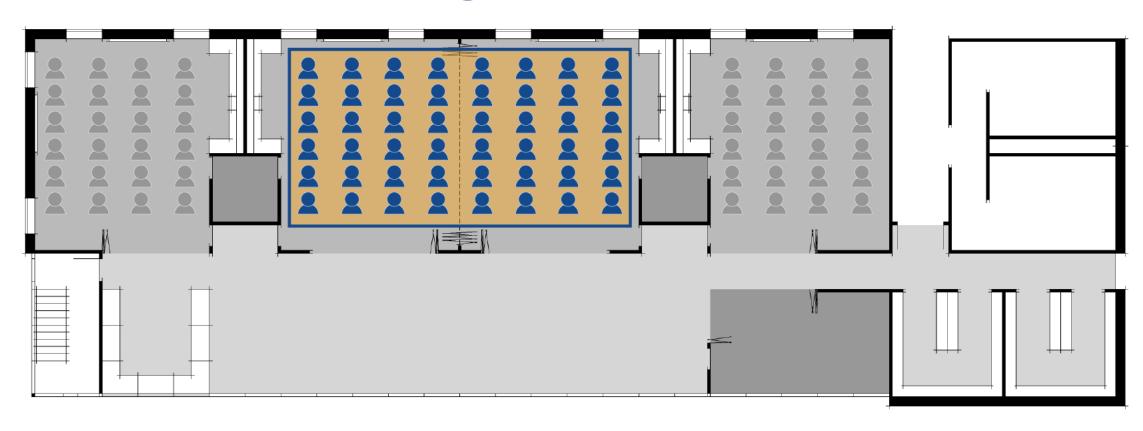


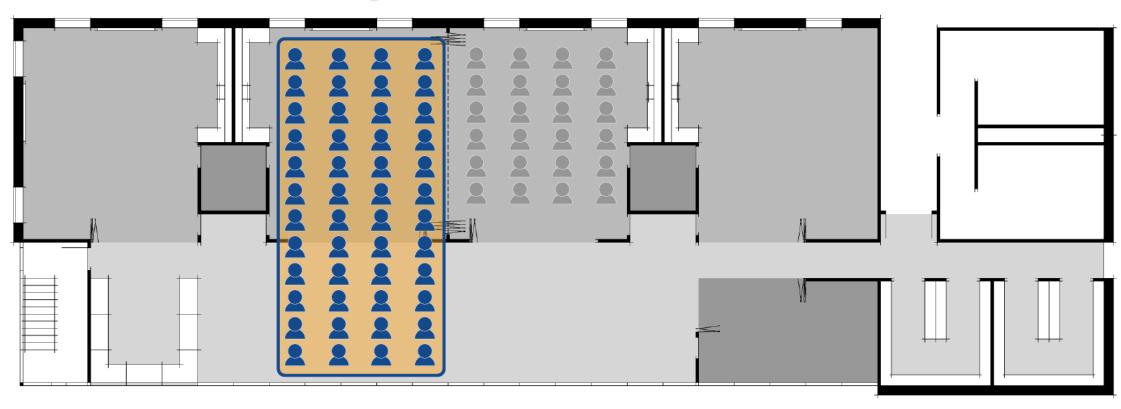




Classrooms / Learning Commons

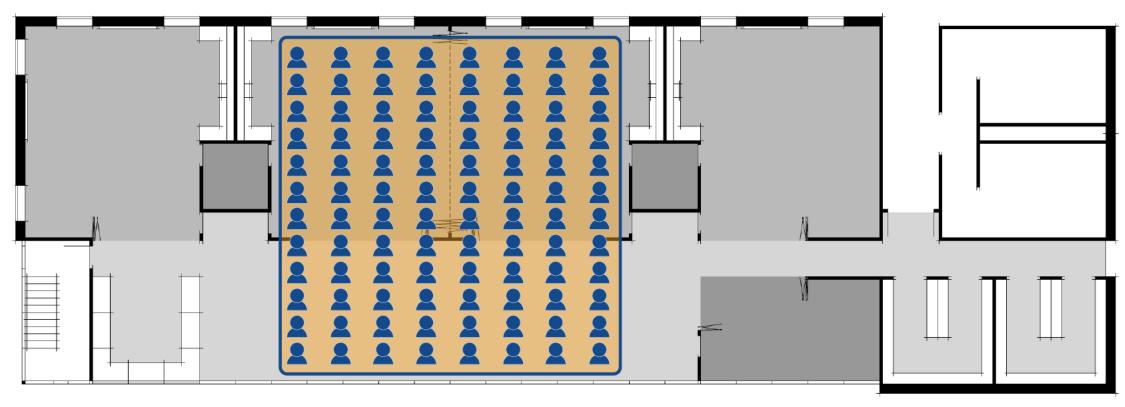






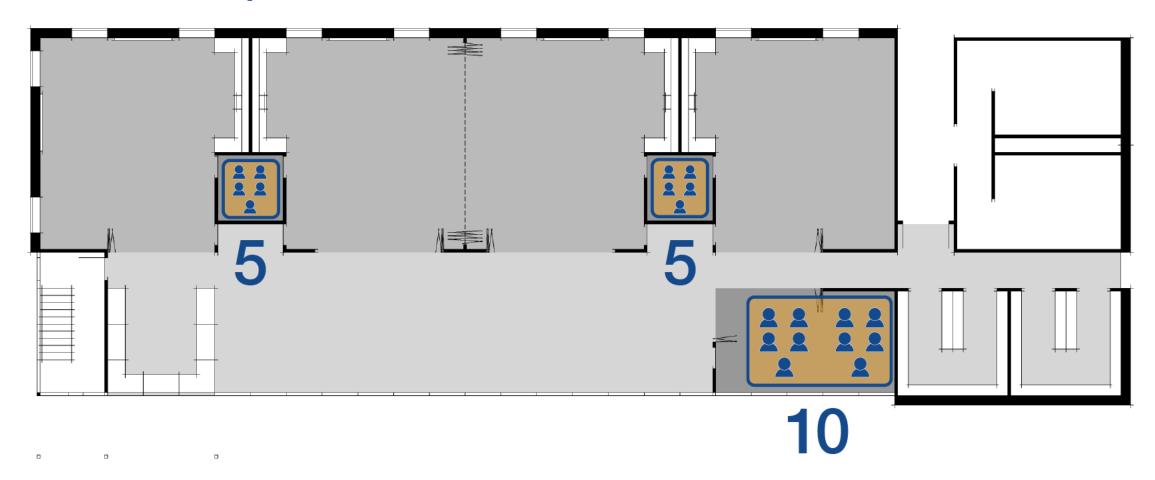
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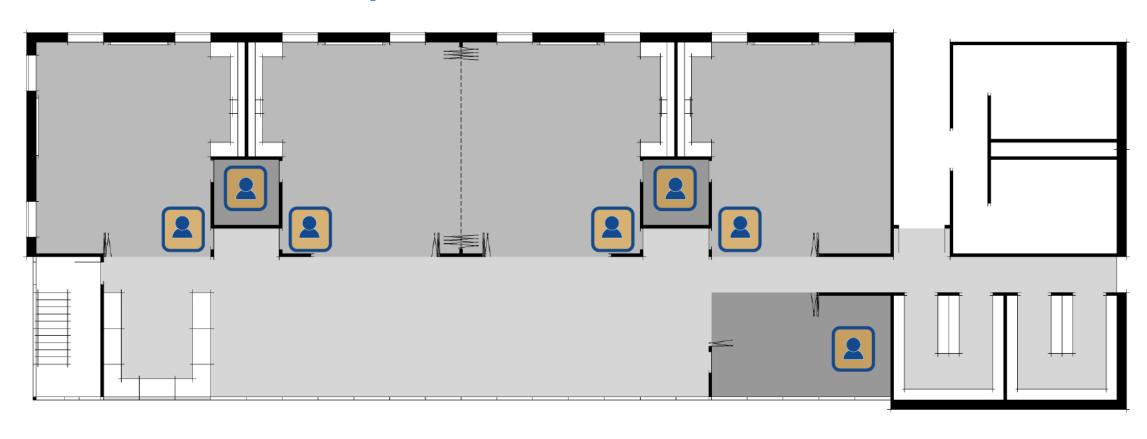


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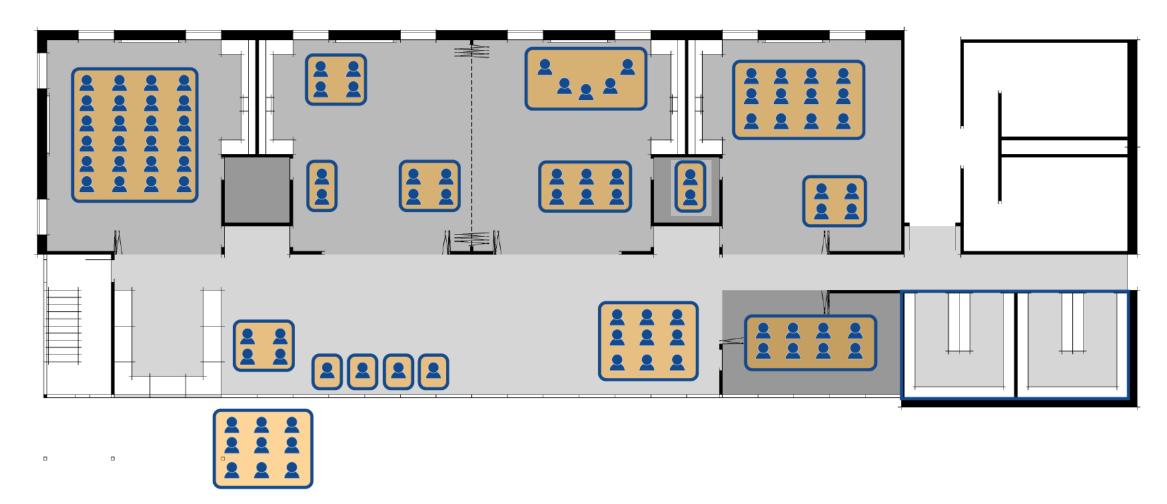
Small Group



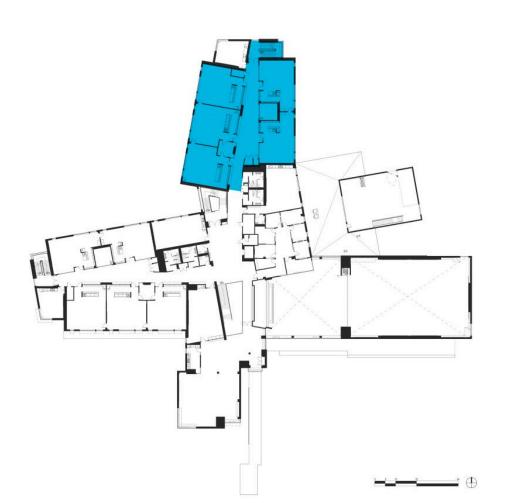
Teachers and Paraprofessionals



Teacher & Student Options



Bancroft Elementary









Arlington Elementary School Tacoma, Washington Mahlum Architects



Parker Elementary Billerica, MA SMMA





Springfield Literacy Center Springfield, PA Stantec

The Learning Commons: Lower Grades







The Learning Commons: Upper Grades





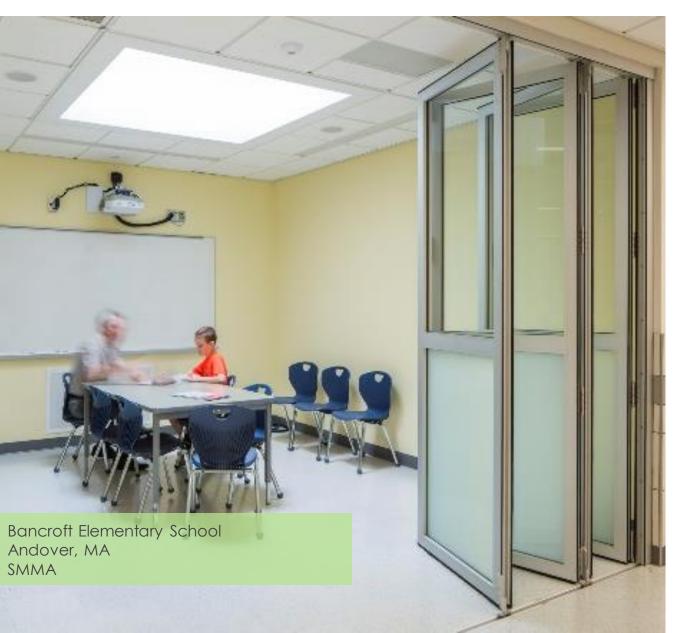




Small Group



Pull Over / Small Group









Douglas Park School Regina Saskatchewan Fielding Nair International





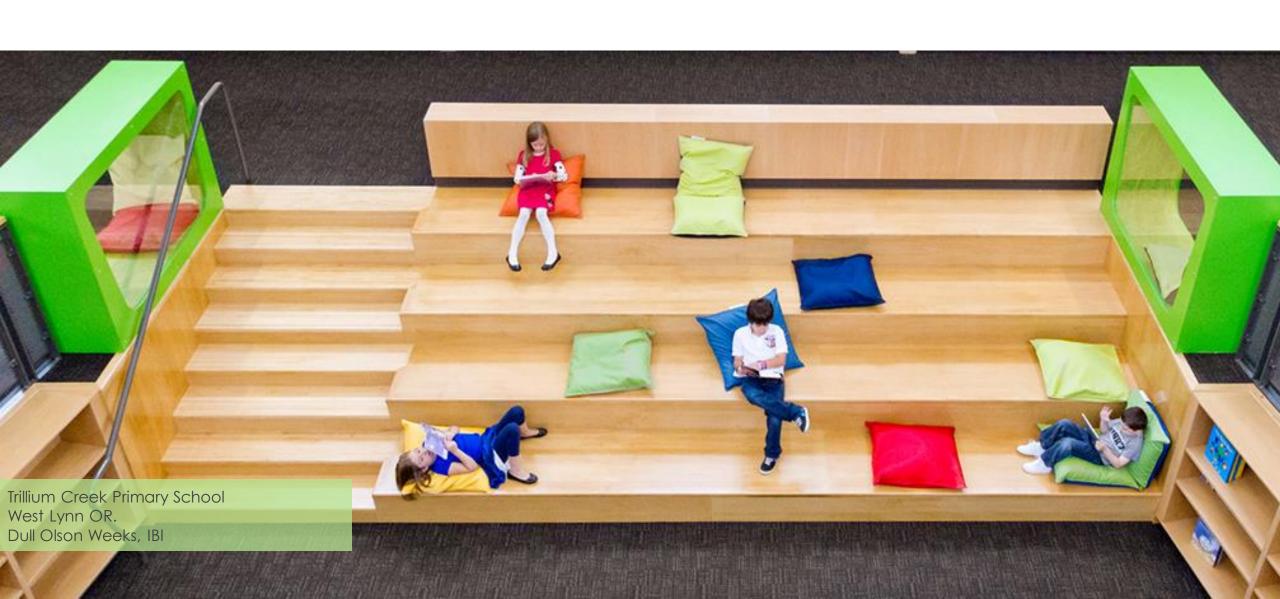
Modernizing the Media Center





















5.

The STEM Studio is located in the middle of the spine, where students connect with instructors and local universit experts to explore and create projects that express their understanding of STEM.



4.

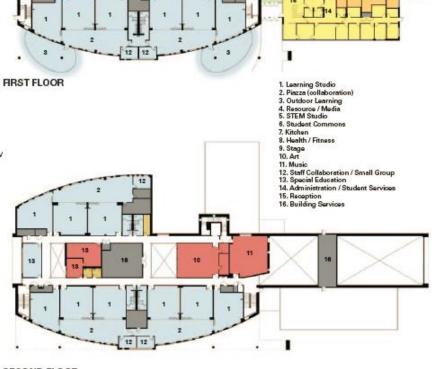
The Library bookends the center spine where students can connect with information vital to the advancement of STEM, and the Student Commons where graphics make the impacts all facets of life.

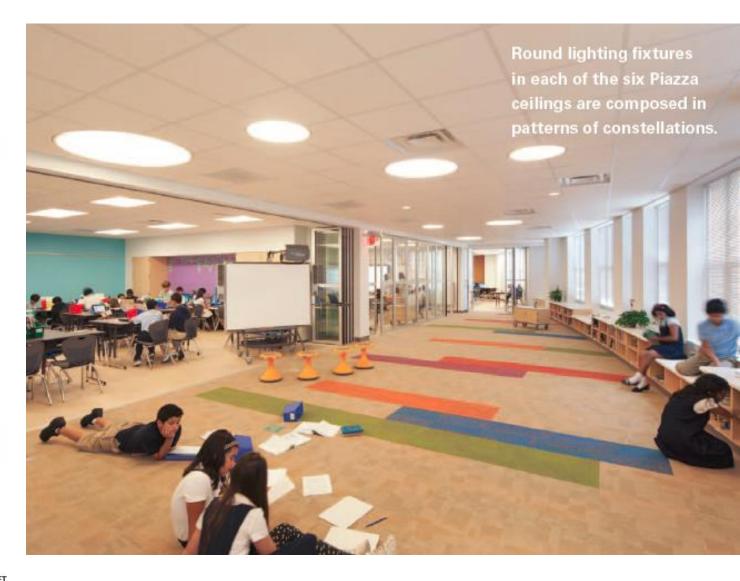
students aware of how STEN

6. The Student Commons is also where artwork, models, and graphics are prominently displayed.

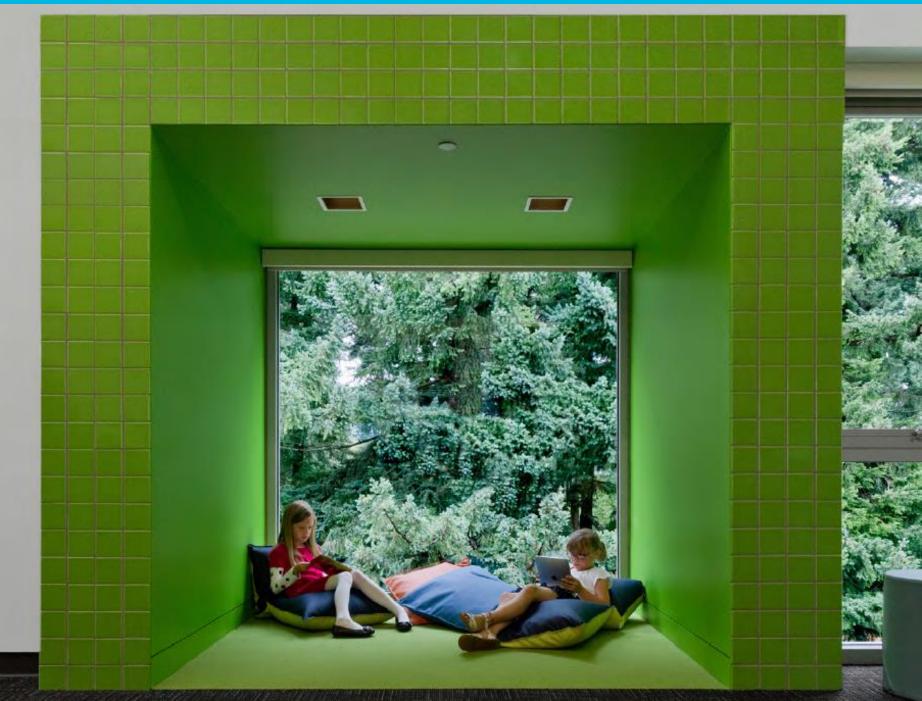
SECOND FLOOR

Booker T. Washington STEM Academy, Champaign IL. - Cannon Design







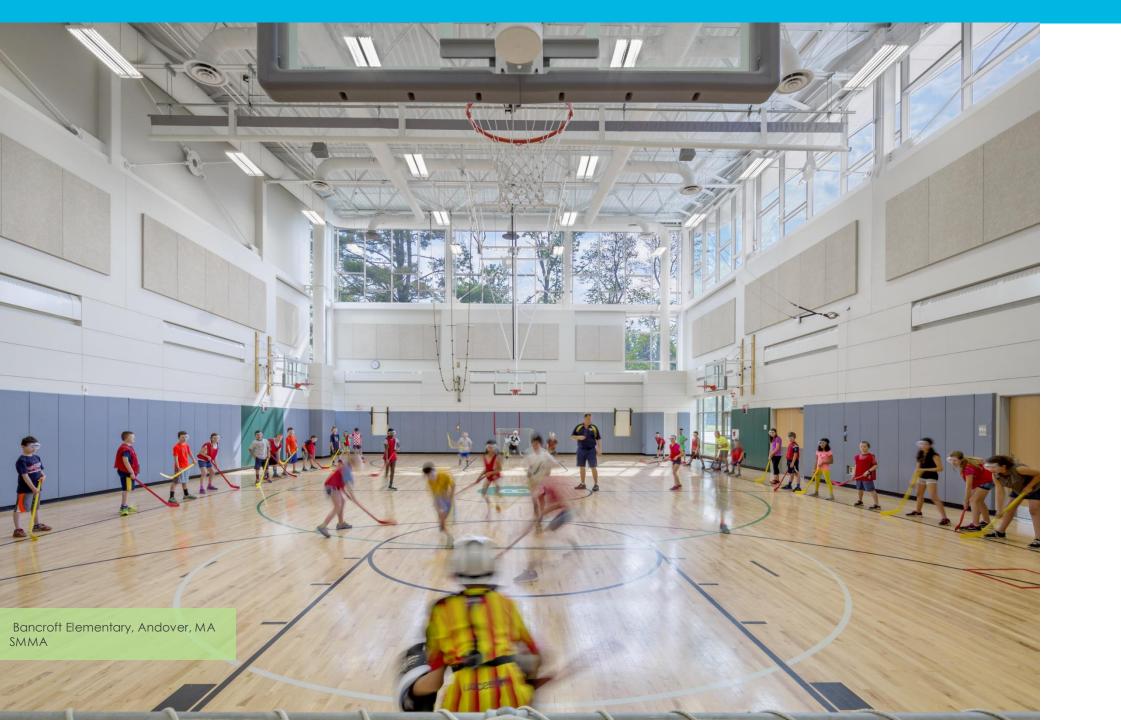


Trillium Creek Primary School West Lynn OR. Dull Olson Weeks, IBI











Transparency









Arlington Elementary School Tacoma, Washington Mahlum Architects





Arlington Elementary School Tacoma, Washington Mahlum Architects



Wilkes Elementary School Bainbridge Island, WA. Mahlum Architects

Sheltered Outdoor Learning Spaces







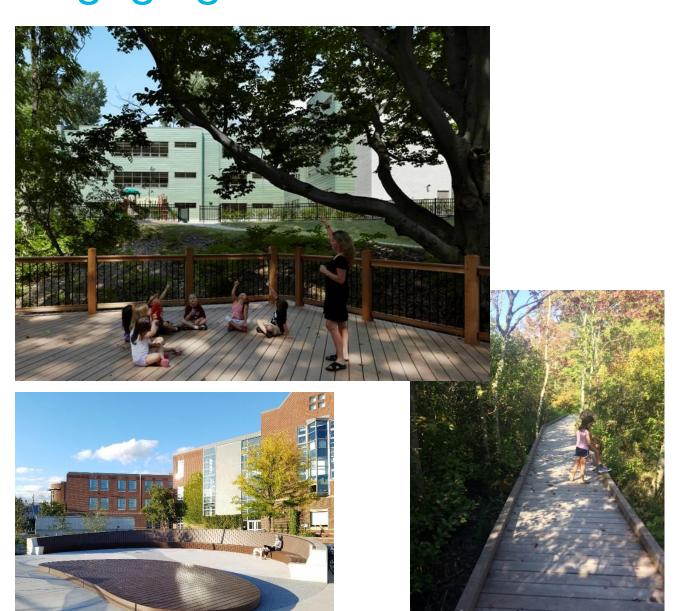


Engaging the Outdoors





Engaging the Outdoors





Hanscom Middle/Primary School - Lincoln, MA.























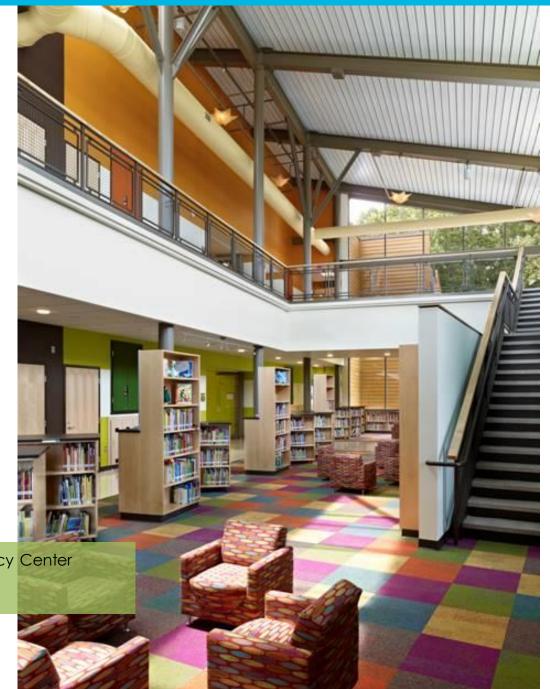
















Springfield Literacy Center Springfield, PA Stantec



Springfield Literacy Center Springfield, PA Stantec

Rockland Elementary School







Discussion



Table Topics Workshop

Topic 1: Walkable / Neighborhood Schools

Topic 2: Environmentally Responsible / Net Zero (Ready)

Topic 3: Community Uses (Current / Potential)

Topic 4: Cost and Schedule

Topic 5: Renovation vs. New Building

Topic 6: School Size / Culture

Topic 7: Swing Space / Adjacent Construction

Topic 8: Demographics

Table Topic 1: Walkable / Neighborhood Schools

- Safe Routes to Schools
- Traffic
- Walking and Biking
- Bussing
- Arrival & Dismissal









Table Topic 1: Walkable / Neighborhood Schools

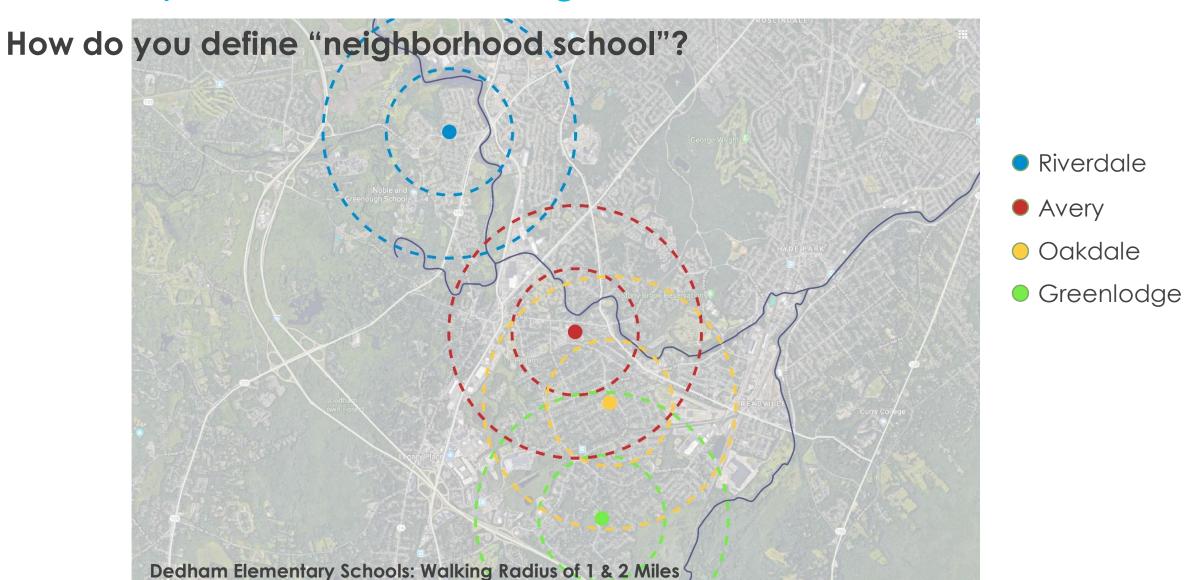


Table Topic 1: Walkable / Neighborhood Schools

DEDHAM SC POLICY (JC) ATTENDANCE AREAS

Attendance areas for the various schools of the town will be drawn up by the Superintendent and approved by the Dedham School Committee. The primary considerations that govern the establishment of a school attendance area are school capacity and transportation considerations. Generally, students will attend the school in the attendance area in which they live.

In establishing an attendance area, the following general guidelines will also be applied:

- 1. Use of safe waking conditions consistent with the Committee's transportation policies; where possible, major traffic thoroughfares and natural barriers will be used for boundaries.
- 2. Honoring community of interest; where possible, school attendance zones will incorporate community patterns.

From time to time an overcrowded condition in an existing school, the development of new residential areas, or the opening of a new school may require the establishment or change of previously established school attendance areas.

The Committee will confer with community representatives prior to setting new attendance lines. However, the Committee's primary basis for judgment must be equality of educational opportunity for all students rather than the personal desires of any one group. The Superintendent is authorized to make exceptions to attendance lines for individual children in the best interests of the student and/or the school.

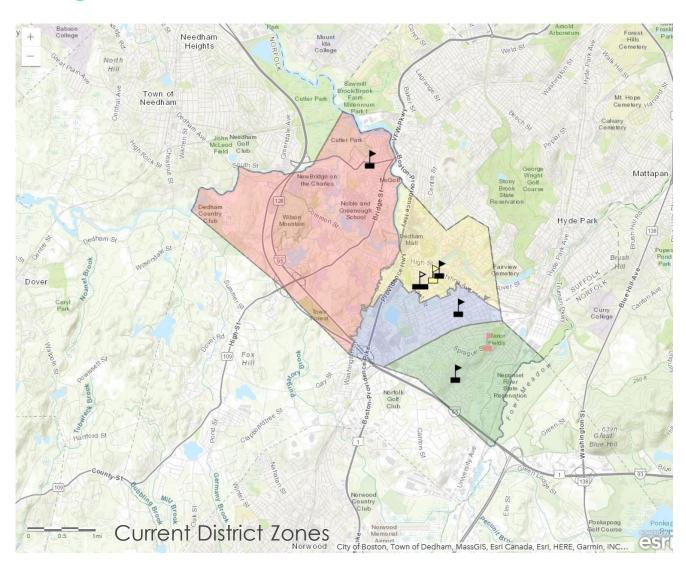
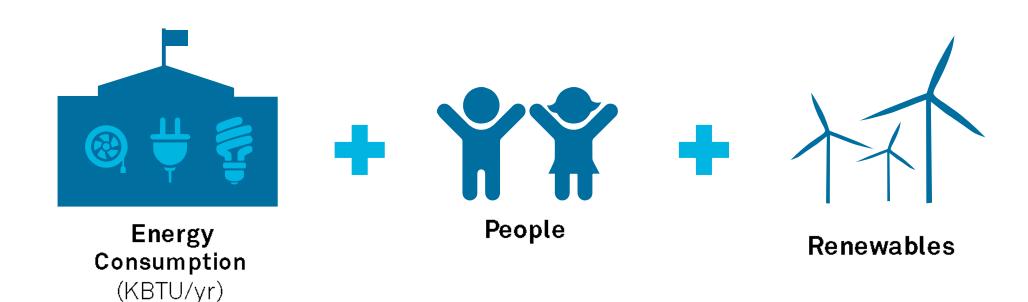


Table Topic 2: Sustainable / Net Zero (Ready)

- Sustainability, Resiliency, Net Zero (ready)
- Healthy Schools (LEED, WELL Standards)
- Low Energy Use



Energy Use Intensity Goal: 30 kBtu/SF/yr. or better

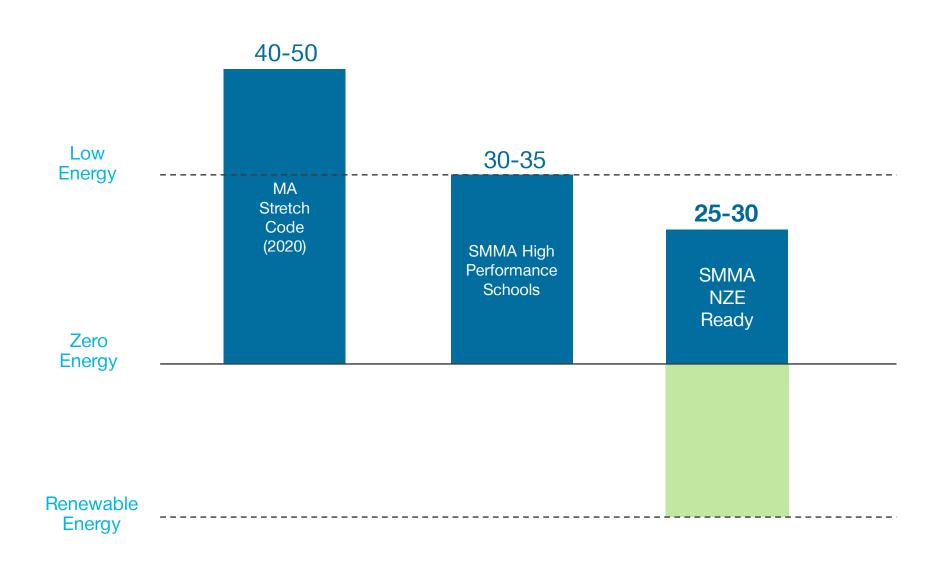


Table Topic 2: Environmentally Responsible / Net Zero (Ready)

School	School Type	Phase	Target EUI	All Electric	Zero Net Energy Goal
Cambridge - King Open	Elementary	Complete	26-28	Yes	60%
Cambridge - MLK	Elementary	Complete	26-28	No	43%
Worcester - Nelson	Elementary	Complete	25	No	No
Brookline - Coolidge Corner	K-8	Complete	23-26	Yes	Yes
Lexington - Hastings	Elementary	Under Construction	25	Yes	Yes
Westborough - Fales	Elementary	Under Construction	23	Yes	Yes
Belmont	Middle/High	Under Construction	30	Yes	Yes
Lincoln	Elementary	Under Construction	23	Yes	Yes
Arlington	High School	Under Construction	30-33	Yes	Yes
Watertown	Elementary	Design	23	?	Yes
Wellesley - Hunnewell	Elementary	Design	26-28	Yes	Yes
Acton-Boxborough	Elementary	Design	28	Yes	Yes
Swampscott – Hadley	Elementary	Design	20-30	?	?

Massachusetts Schools with Low Energy Goals

Table Topic 3: Community Uses (Current / Potential)

- Before School / After School Students
- Evening / Weekend Use Building
- Evening / Weekend Use playgrounds and site
- District Policies
 - Outside community group use of facilities
- Summer uses
- Playgrounds and fields
- Gymnasia
- Cafeterias





Table Topic 3: Community Uses (Current / Potential)

- MSBA gym reimb. 6000; typical community request 7000+
- Elementary School equity
- Typical for ES: Stage (no auditorium)
- What is the current playing field inventory and what is the need?
- New vs. add/reno
 - Dedicated/controlled public access

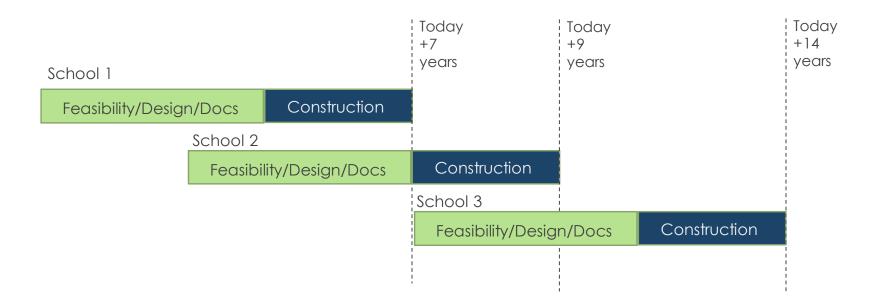




- MSBA Timelines
- Single Project or Simultaneous Multiple Projects
- Costs of Multiple Projects
- Swing Space



Potential to condense schedule if one project is not MSBA?



Square Footage using MSBA baseline

Assume 1,110 (grades 1-5) students total Assume 775 needed + Avery

SF for 1 school

114,300 gross SF

114,300 gross SF total

SF for **2 schools** (each)

68,400 gross sf x 2 =

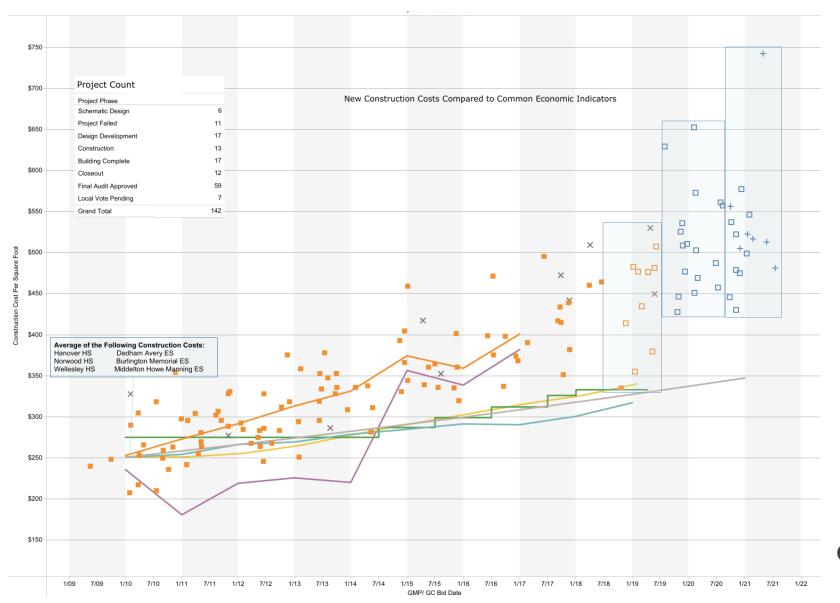
136,800 gross SF total

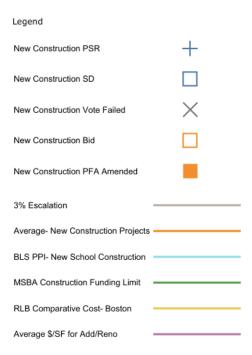
SF for **3 schools** (each)

54,500 gross sf x 3 =

163,500 gross SF total

Proposed Space Summa	ary- Ele	emen	tary Sch	ools												
						•	F	ROPOSI	ED					Date:	Enter Date	Enter Submittal
Dedham - Assume 2 Schools	2 Schools Existing Conditions		Existing	Existing to Remain/Renovated		New		Total		MSBA Guidelines (refer to MSBA Educational Program & Space Standar Guidelines)		Program & Space Standard				
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	Comments
CORE ACADEMIC SPACES			n			0			0			0		20	19.050	
(List classrooms of different sizes sep	ancafalul		0			-						-		20	13,030	
Pre-Kindergarten wittilet Kindergarten wittilet General Classrooms - Grade 1-6 STE Room- Grade 3-6	arasey)												1,200 1,200 950 1,080	3 15 1	14,250 1,080	L100 SF min - 1,300 SF max; L100 SF min - 1,300 SF max; 2 sinks min, req 300 SF min - 1,000 SF max; 2 sinks min, req Refer to STE Guidelines for Addit
STE Storage		ļ			ļ					ļ			120	1	120	Refer to STE Guidelines for Addit
SPECIAL EDUCATION (List rooms of different sizes separate Self-Contained SPED object Self-Contained SPED object Resource Room Small Group Room/ Reading	<u> </u>		0			0			0			0	950 60 500 500	3 3 2 1		300-1,300 SF equal to surrounding classrooms 1/2 size Goal. Clim. 1/2 size Goal. Clim.
ART & MUSIC			0			0			0			0			2,575	
Art Classroom - 25 seats Art Workroom wi Storage & kilin Music Classroom / Large Group - 25-50 seats Music Practice / Ensemble													1,000 150 1,200 75	1 1 1 3	1,000 150 1,200 225	assumed schedule 2 times / week / student assumed schedule 2 times / week / student
HEALTH & PHYSICAL EDUCATION			0			0			0			0			6,300	Excess PE Spaces Policy
Gymnasium Gym Storeroom Health Instructor's Office w Shower & Toilet													6,000 150 150	1	6,000 150 150	6000 SF Min. Size
MEDIA CENTER			0			0			0			0			2,416	
Media Center / Reading Room													2,416	1	2,416	
DINING & FOOD SERVICE			0			0			0			0	2.010		6,127	
Cafeteria / Dining	L	<u> </u>			<u> </u>	1		1	1	L	1	1	2,910	111	2,910	2 seatings - 15SF per seat





Current cost/sf MSBA database

Table Topic 5: Renovation vs. New Building

- Fulfillment of Educational Needs vs. Compromises?
- Student / Staff Safety
- Educational Disruption
- Handicapped Accessibility



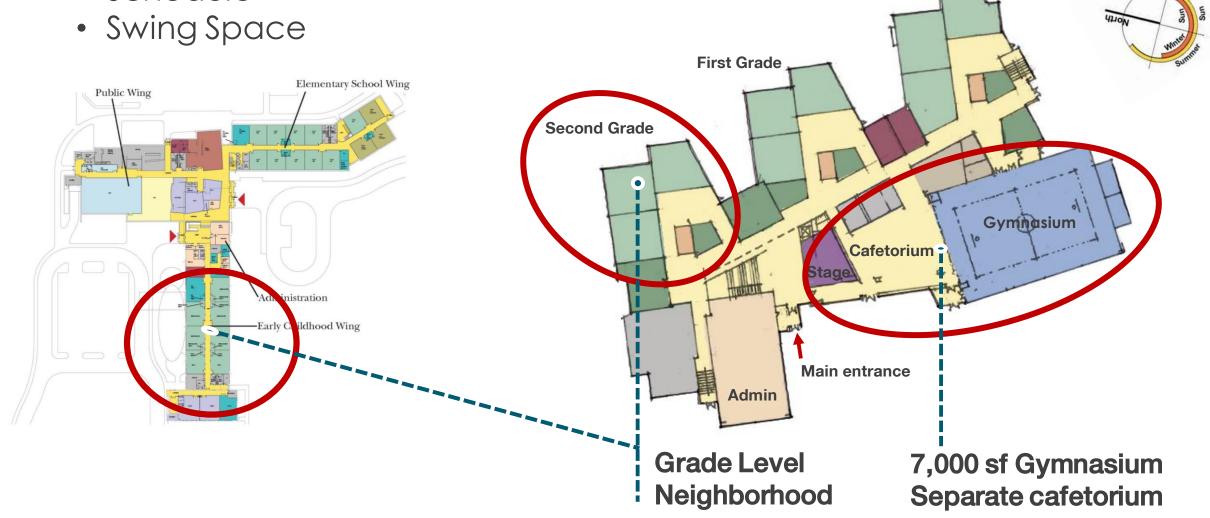




Table Topic 5: Renovation vs. New Building

Universal Design for Learning

• Schedule



Kindergarten

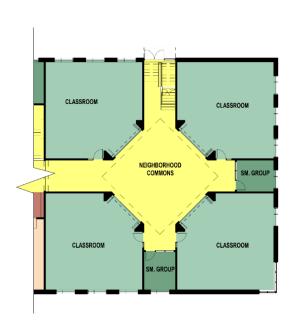
Table Topic 6: School Size / Culture

- Educational Neighborhoods
- Schools within a school
- How small is too small
- Advantages of a larger school
- Redistricting
- Operational budget



Table Topic 6: School Size / Culture

- Advantages of a larger school
- Redistricting
- Operational budget





Recent ES Projects f/ A	ASBA Web	site								
South Hadley	270		only school							
Revere	690		,							
Whitman-Hansen	800									
Athol-Royalston	545									
Newton	465									
Gloucester	355		1 of 5							
Milford	985									
Northborough	270		1 of 4							
Worcester	600									
Woburn	410									
Brookline	1,010									
New Bedford	400									
Hopkington	395									
Carver	750									
Narrahansett	580									
Granby	430									
Dedham ECEC	200									
Hanover	560									
Needham	430									
Amherst	750									
Bourne	460									
Newton	480									
Millis	515									
Clarksburg	150		only school							
Lexington	645									
Taunton	735									
Tisbury	285		only school							
Ludlow	630									
Marlborough	610									
Ipswich	775									
Harvard	445									
Northbridge	1,030									
Easthampton	1,010									
Foxborough	270		only school							
Manchester-Essex	335		only school							
Springfield	800									
				average						
				school design						
	20070	36	557.5	population						
	smallest school without Clarksburgh									

smallest school without Clarksburgh 270150 school 1,030largest school

Table Topic 7: Swing Space / Adjacent Construction



Table Topic 7: Swing Space / Adjacent Construction

- Modular Classrooms
- No Occupied Reno's



Table Topic 8: Demographics

- Universal PreK, demand for increased space
- Multi-location PreK what might that mean?
- Increased Kindergarten Population what might that mean?

Dedham, MA Birth-to-Kindergarten Relationship

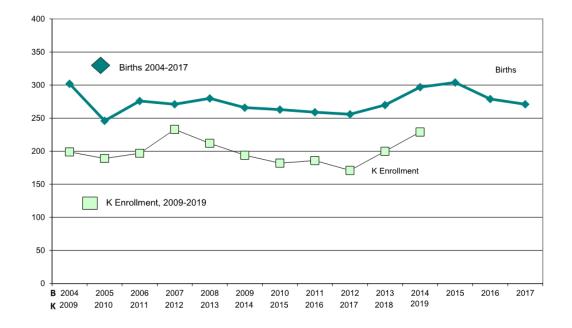
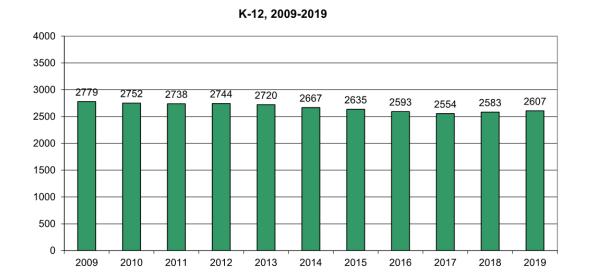


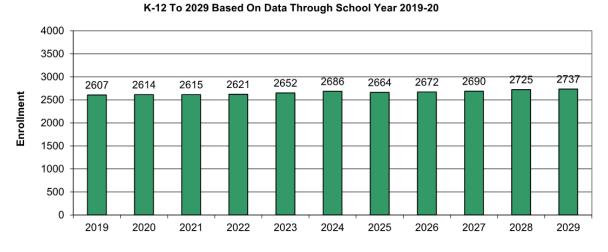
Table Topic 8: Demographics

- School Building sizes
- Neighborhoods of Growth?
- If You Build It, They Will Come





Dedham, MA Projected Enrollment

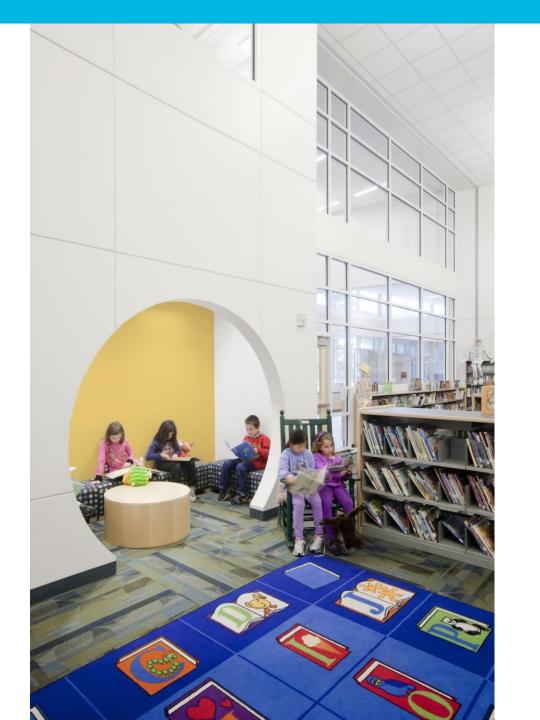


- Step 1. Brainstorm (20 min)
- Step 2. Summarize (10 min)
- Step 3. Share (20 min)
- Step 4. Prioritize Gallery Walk (10 min)
 - 1st Preference Green Dot
 - 2nd Preference Yellow Dot
 - 3rd Preference Red Dot

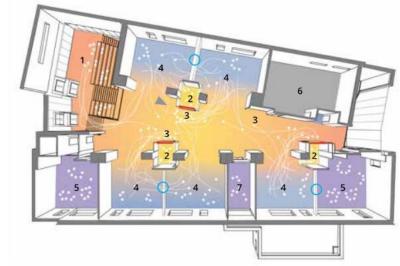
Next Steps

- SMMA to Prepare Summary of Workshop #2
- Workshop #3 Monday, January 13th
- DPS to Prepare Statement of Interest (SOI), Submit to MSBA, Spring 2020

Thank You







Wilson High School Tacoma, WA. NAC Architecture

- 1 Informal Presentation Area
- 2 Small Conference Room
- 3 Informal Collaboration Space
- 4 Flexible Classrom

- 5 Dedicated Classroom
- 6 Utility Core
- 7 Staff Room
- Operable Glass Partitions

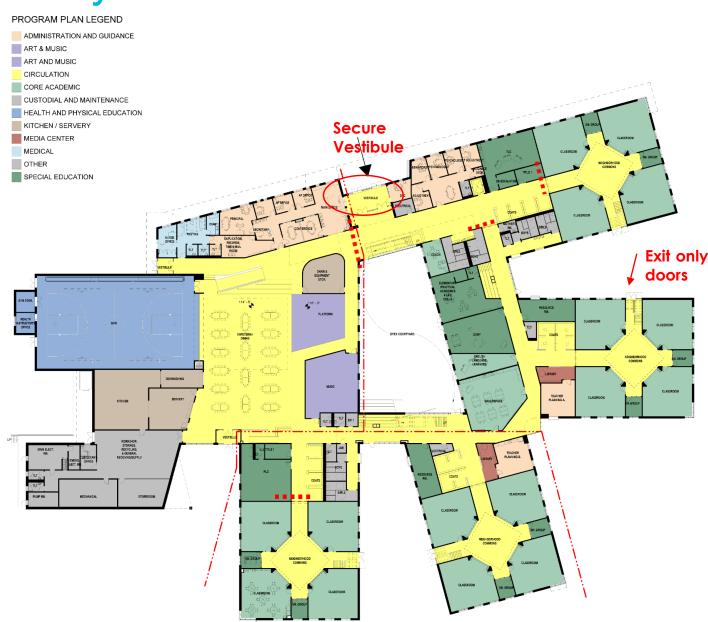


Douglas Park School Regina Saskatchewan Fielding Nair International

School Safety and Security

- Use of CPTED principles in design – property line to building edge
- Single point of entry
- Minimizing of exterior doors
- Invisible elements (zoning)
- Soft side of Safety and Security





Sheltered Outdoor Learning Spaces









Engaging the Outdoors







Trillium Creek Primary School, West Lynn OR. – Dull Olson Weeks, IBI

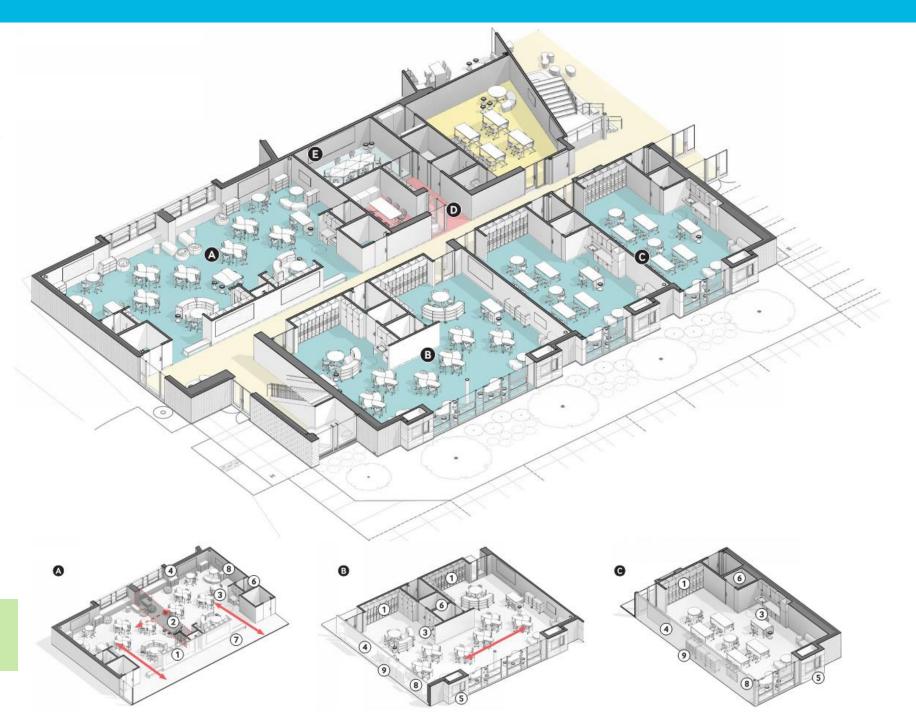
Flexible Studio Spaces

- A OPEN STUDIO
- B SUPER STUDIO
- G SINGLE STUDIO
- SHARED STAFF RESOURCE / MEETING
- SMALL GROUP RESOURCE



- MOVABLE PARTITION
- 1 STUDENT + TEACHER RESOURCE STORAGE
- 2 MOVABLE PARTITION
- 3 SINK + RESOURCE AREA
- (4) TACKABLE SURFACE
- (5) READING WINDOW NOOK
- 6 STUDIO TOILET (K/1)
- 7 THRESHOLD BENCH
- (8) INTERACTIVE TECHNOLOGY
- 9 WRITABLE WALL

Bluestone Elementary School Harrisonburg, Virginia VMDO Architects











SMMA

Facilities Master Plan

Individual School Update and Input Gathering Meetings

October 15, 22, 23, 2019







Agenda

- Introductions
- School Facility Projects Background
- Our Work Completed to Date
 - Educational Facility Assessments
 - Enrollment Analysis
- Community Engagement and Input
- Q & A

SMMA: Who We Are



Principal-in-Charge /
Educational Planner
Philip Poinelli
FAIA, ALEP



Project Manager

Kristen M. Olsen

AIA, MCPPO

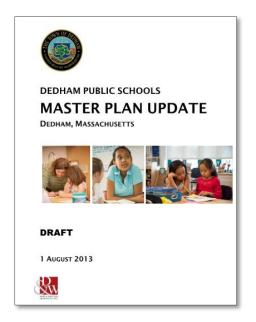
What brings us here today?



Prior Studies

2013 Master Plan Update

Dore and Whittier Architects

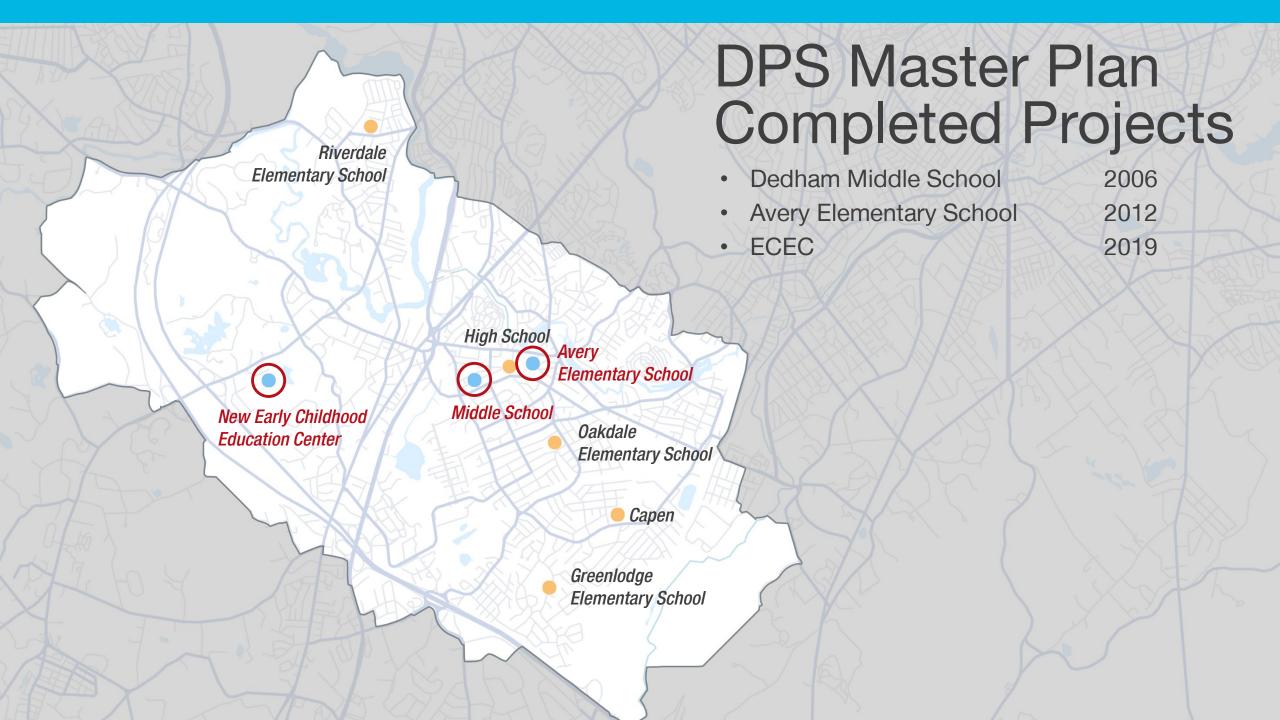


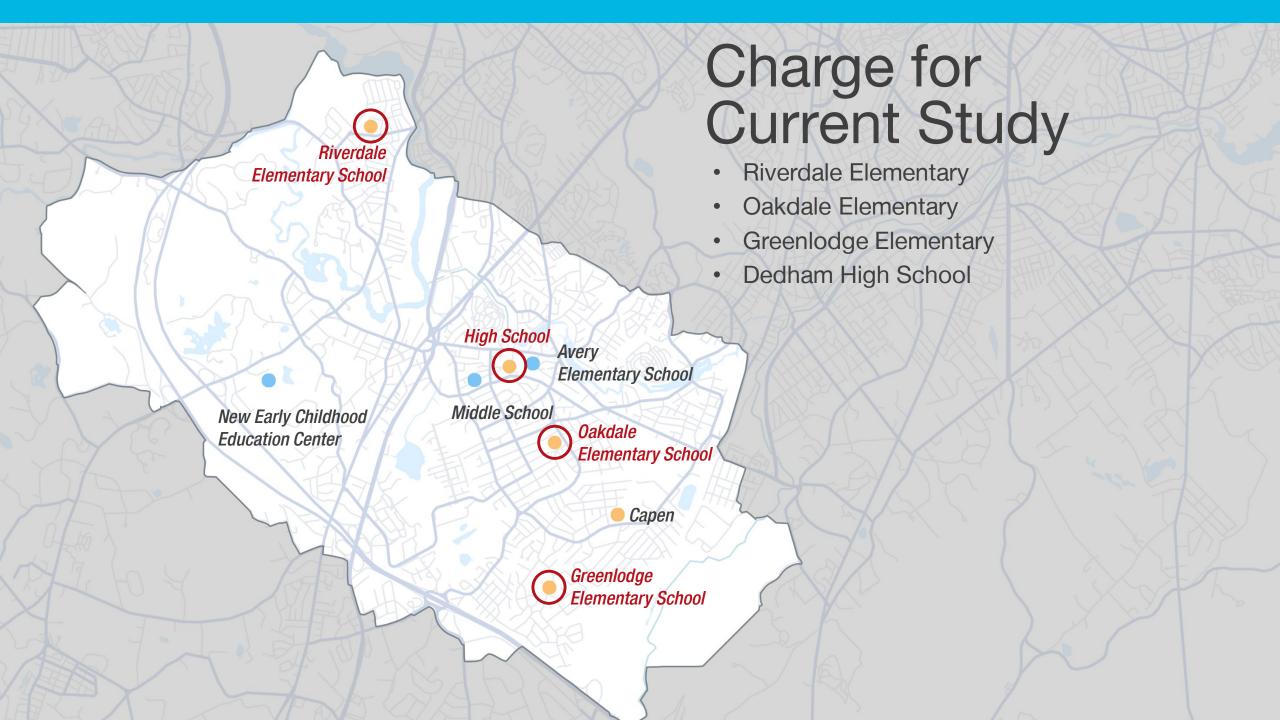
Reviewed many options!
Resulted in the successful
prioritization and completion
of the new ECEC building.

2015 ECEC Feasibility Study

KBA Architects







Massachusetts School Building Authority – 2016 School Survey Report

District	School	Туре	Year Founde d	2016/2017 Enrollment	Total GSF	SF/ Student	Classroo m Count	Students/ Classroom	Building Conditions Rating	Capacity Rating	General Environmental Rating
Dedham	Avery	ES	2012	308	61,000	116.8	-	-	-	-	-
Dedham	Dedham High	HS	1969	739	307,323	415.9	72	10.3	1	Under	1
Dedham	Dedham Middle School	MS	2006	631	162,000	256.7	-	-	-	-	-
Dedham	Early Childhood Center	PreK/K	1931	282	26,000	92.2	-	-	-	-	-
Dedham	Greenlodge	ES	1955	278	51,084	183.8	19	14.6	2	Average	1
Dedham	Oakdale	ES	1902	272	53,524	179.8	21	13.0	3	Average	1
Dedham	Riverdale	ES	1920	183	37,299	203.8	16	11.4	2	Average	1

Scoring Rubric (Ratings 1 – 4) best to poorest

- 1. Building Condition
- 2. General Environment
 - Learning Environments
 - Building Safety
 - Universal Accessibility
 - Academic Sufficiency
 - Program Sufficiency
 - Instructional Technology

- 3. Capacity Utilization
 - Underutilized (less than 80% capacity utilization
 - Average Utilization (between 80% 125% capacity utilization)
 - Over Utilization (equal to or greater than 125 % -capacity utilization)

http://www.massschoolbuildings.org/programs/school_survey

Massachusetts School Building Authority – 2016 School Survey Report

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Massachusetts School Building Authority – 2016 School Survey Report

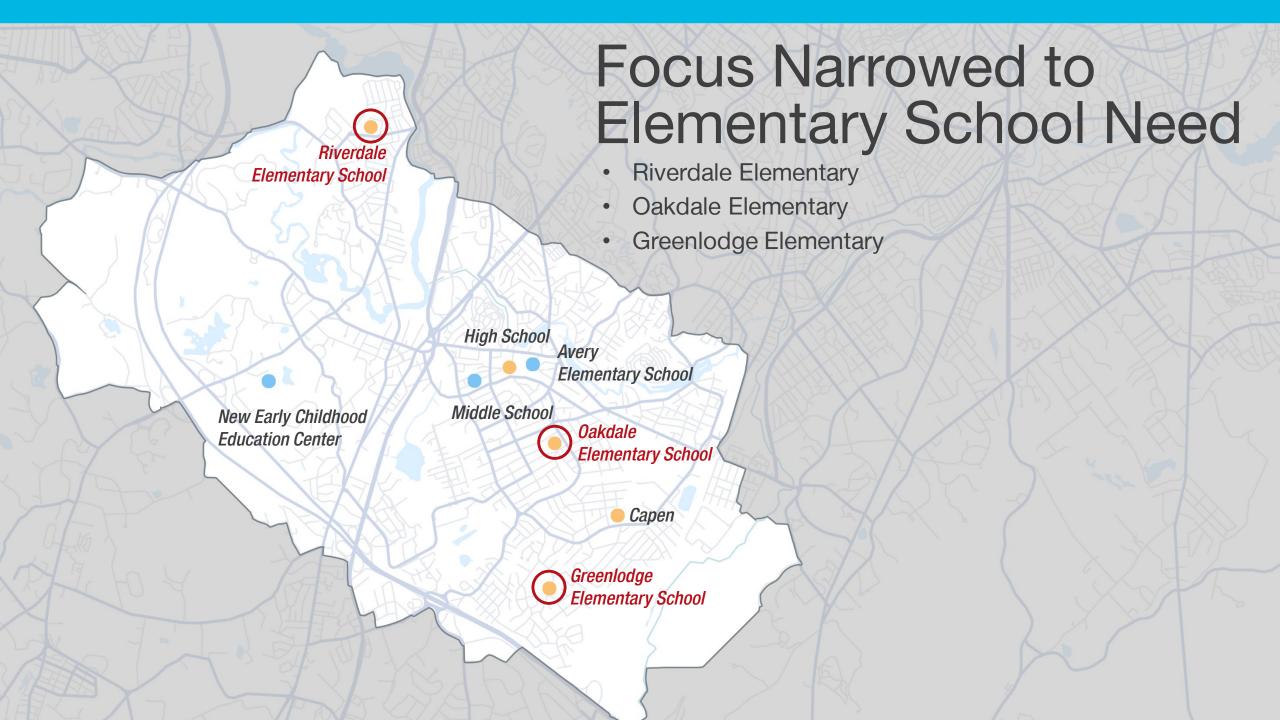
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http://www.massschoolbuildings.org/programs/school_survey



Riverdale Elementary School



Quick Facts

- Built in 1921
- Additions in 1930 & 1970
- 172 Students
- Historic Status none
- Modest Site Size
- Classrooms are undersized
- Traditional Layout



Oakdale Elementary School



Quick Facts

- Built in 1902
- Additions in 1951 & 1970
- 271 Students
- Historic Status none
- Modest Site Size
- Classrooms are undersized
- Traditional Layout



Greenlodge Elementary School



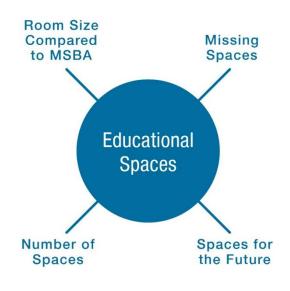
Quick Facts

- Built in 1955
- Additions 1961 &1970
- 247 Students
- Large Site (partially hilly)
- Traditional Layout

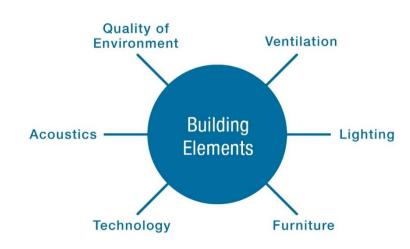


Measuring Educational Facility Effectiveness









Educational Spaces

Conditions at the three schools vary somewhat but generally:

- Classroom vary in sizes: Some meet MSBA Guidelines but oldest buildings have significantly small rooms
- No cafeteria (meals in classrooms)
- Undersized gym, undersized libraries in 2 schools
- Numerous issues with building conditions that impede teaching and learning: lighting, temperature, ventilation, acoustics
- Issues related to safe and secure learning environments
- Need for additional Special Education spaces





Building Elements

- Limited handicapped access to significant parts of the building
- Wood construction in two of the oldest buildings, including stairs
- Numerous other issues of accessibility
- Obsolete mechanical heating and ventilation system, no air conditioning frequently too hot / too cold for teaching and learning
- Inadequate electrical systems
- Obsolete plumbing systems, lack of automatic fire protection
- Window replacement needed
- Cosmetic issues floors, ceilings, walls (work might be categorized as minor)





2016 Facility Condition Assessment EMC Corp

FACILITY CONDITION ASSESSMENT

Prepared for

Town of Dedham Schools 100 Whiting Avenue Dedham, Massachusetts 02026



FACILITY CONDITION ASSESSMENT

DEDHAM-GREENLODGE ELEMENTARY SCHOOL 191 GREENLODGE STREET DEDHAM, MA 02026

FACILITY CONDITION ASSESSMENT

Prepared for

Town of Dedham Schools 100 Whiting Avenue Dedham, Massachusetts 02026



FACILITY CONDITION ASSESSMENT

DEDHAM-OAKDALE ELEMENTARY SCHOOL 147 CEDAR STREET DEDHAM, MASSACHUSETTS 02026 PREPARED BY:

10461 Mill Run Circle, Suite 110 Owings Mills, Maryland 21117 800 733.0660

EMG CONTACT:

Bill Champion Program Manager 800,733.0660 x6234 bchampion@emgcorp.com

EMG PROJECT #:

DATE OF REPORT:

ONSITE DATE:

FACILITY CONDITION ASSESSMENT

Prepared for

Town of Dedham Schools 100 Whiting Avenue Dedham, Massachusetts 02026



FACILITY CONDITION ASSESSMENT OF THE

DEDHAM-RIVERDALE ELEMENTARY SCHOOL 143 NEEDHAM STREET DEDHAM, MASSACHUSETTS 02026 PREPARED BY:

EMG 10461 Mill Rum Circle, Suite 1100 Owings Mills, Maryland 21117 800,733,0680

EMG CONTACT:

Bill Champion
Program Manager
800.733.0660.x6234
bchampion@emgcorp.com

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PREPARED BY:

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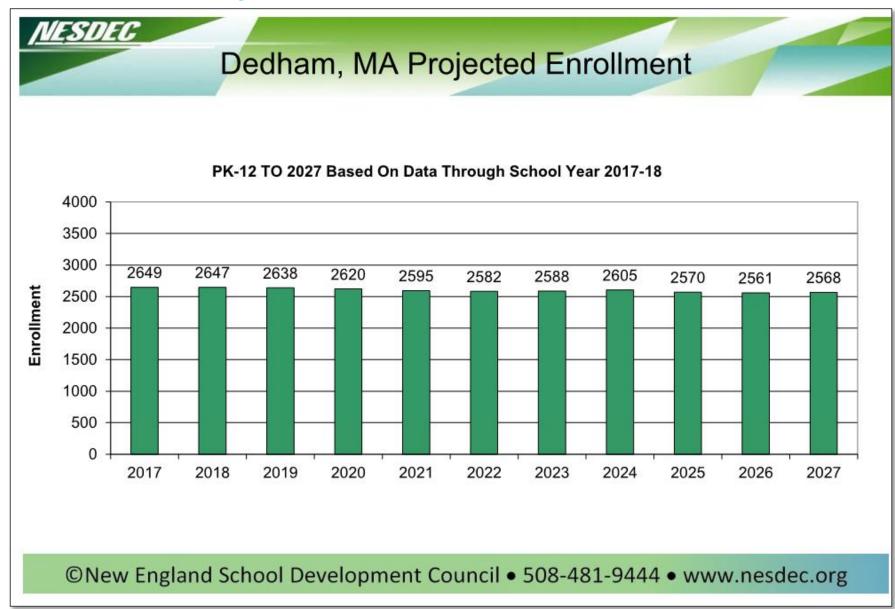
DATE OF REPORT:

ONSITE DATE:

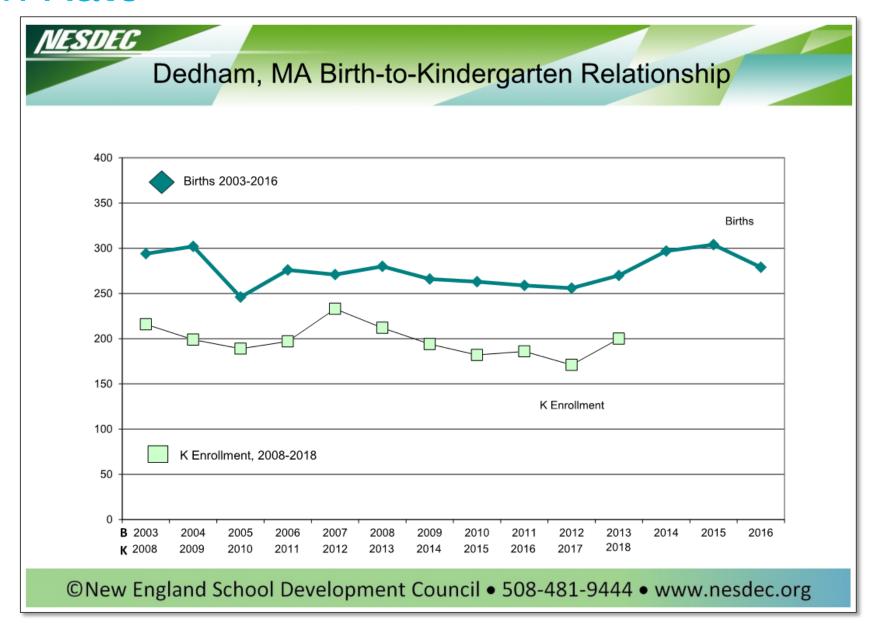




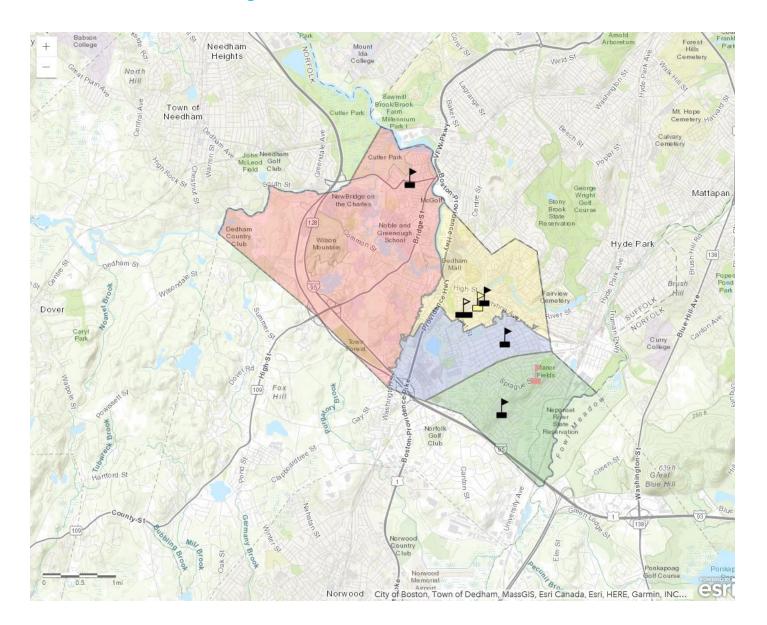
Enrollment Projections



Birth Rate



Current Elementary School Districts

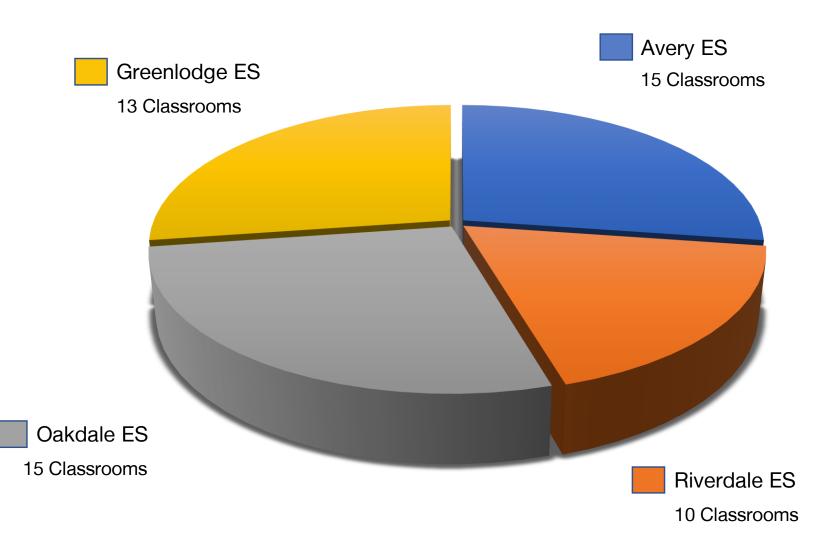


Current ES Schools/Classrooms

Mostly Undersized Classrooms

Total:

53 Classrooms 994 Students



2018-29: ES Classroom Need

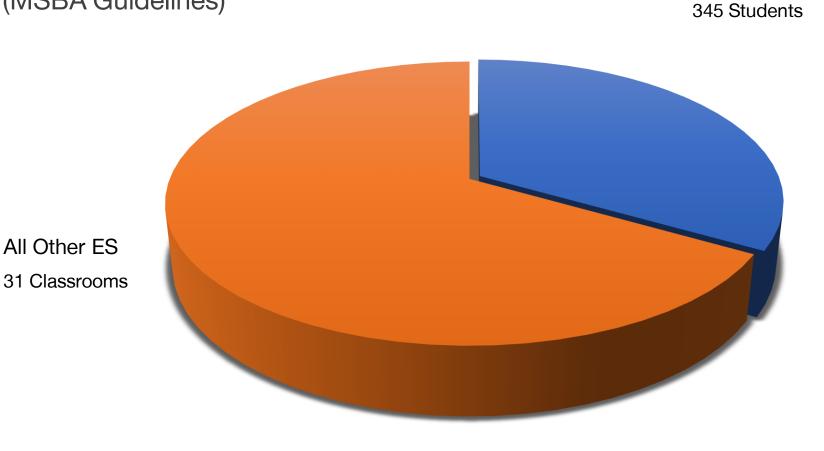
All Other ES

Assumes:

23 Students/Classroom (MSBA Guidelines)

Total:

46 Classrooms 1,060 Students



Avery ES

15 Classrooms

2018-29: ES Classroom Need

		Curi	2028 - 29 Needs w/ MSBA Criteria					
	2018-19 Classrooms / Population Grade		Total Classrooms	Average Class Size	Class Size	Classrooms / Grade	Population	
Avery	304	3	15	20.3	23	15	345	
Riverdale	172	2	10	17.2	23			
Oakdale	271	3	15	18	23	31	715	
Greenlodge	247	3	14	17.6	23			
	994	11	54	18.4		46	1,060	

What We've Learned

- Riverdale, Oakdale and Greenlodge Elementary Schools are DPS' next greatest capital improvement need
- Enrollment Projections show a recent increase at Kindergarten and warrants close monitoring
- 31 Classrooms are needed to accommodate projected Elementary School enrollment as Avery accounts for 15

MSBA Statement of Interest (SOI) Process

- Submitting an SOI is the first critical step in the MSBA's program
 to partially fund the construction, renovation, addition or repair of
 municipally owned school facilities located in cities, towns and
 regional school districts.
- The SOI allows districts to inform us (MSBA) about deficiencies that may exist in a local school facility and how those deficiencies inhibit the delivery of the district's educational program.
- Core (Capital) Program vs. Accelerated Repairs
- Initially identify one school but may be asked to document all three schools

MSBA Statement of Interest (SOI) Priorities

- 1. Replacement or renovation of a building which is structurally unsound or otherwise in a condition seriously jeopardizing the health and safety of school children.
- 2. Elimination of existing severe overcrowding;
- 3. Prevention of the **loss of accreditation**;
- 4. Prevention of **severe overcrowding expected** to result from increased enrollments, which must be substantiated;
- 5. Replacement, renovation or **modernization of school facility systems**, such as roofs, windows, boilers, heating and ventilation systems, to increase energy conservation and decrease energy related costs in a school facility;
- **6. Short term enrollment** growth;
- 7. Replacement of or addition to **obsolete buildings** in order to provide a full range of programs consistent with state and approved local requirements; and
- 8. Transition from **court-ordered** and approved racial balance school districts to walk-to, so-called, or other school districts.

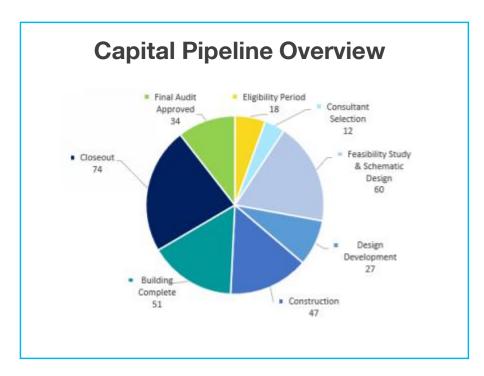
MSBA Statement of Interest (SOI) Process

January 2020: SOI period opens

April 2020: SOI period closes

- Review SOI for Completeness
- Review SOI and accompanying documents for content
- Conduct Senior study visits if required
- Recommend SOIs for initiation into Eligibility Period

Typically MSBA releases accelerated repair projects in June/July and Core Program (CP) Projects in **December**.



2018 (70) CP SOI's Submitted, 12 invited into Eligibility

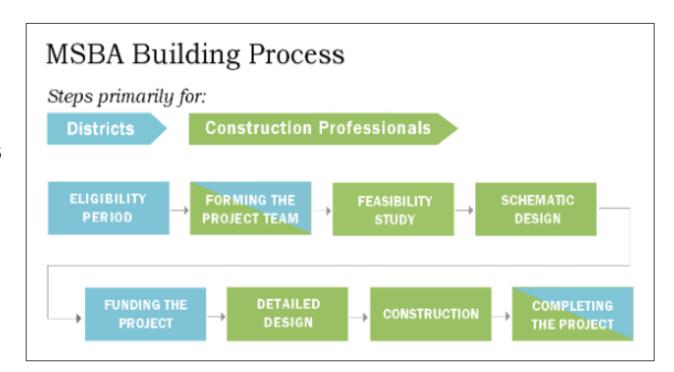
2019 (83) CP SOI's Submitted

Feasibility Study

- With the Owner's Project Management and Designer in place:
 The District and its team collaborate with the MSBA to document their educational program / initial space summary, document existing conditions, develop and evaluate alternatives, and recommend the most cost effective and educationally appropriate preferred solution
- Test alternative sites, site solutions
- Possibly explore alternative school sizes (populations)
- Select a preferred solution
- At this stage, the project becomes reimbursable

MSBA Building Process

- SOI Process: Approx. 12 months
- Eligibility Period: Approx. 10 months
- Feasibility Study: Approx. 9 months
- Schematic Design: Approx. 6 months
- Development Design: Approx.
 5 months
- Construction Documents: Approx.
 8 months
- Construction
 – Approx: 24 months
- Close Out– Approx: 3 months
- Total: 77 months (6.5 years) Assumes an "Invitation" based on the
 SOI initial submission



Community Engagement and Input

- Fall Meetings
 - Meeting 1: October 2019

at each School

Building Conditions, Site(s), Enrollment

Community Priorities and Goals

- SOI Development
 - Meeting 2: December 9, 2019

Workshop at ECEC

Review of Community Input Received

Options & Discussion

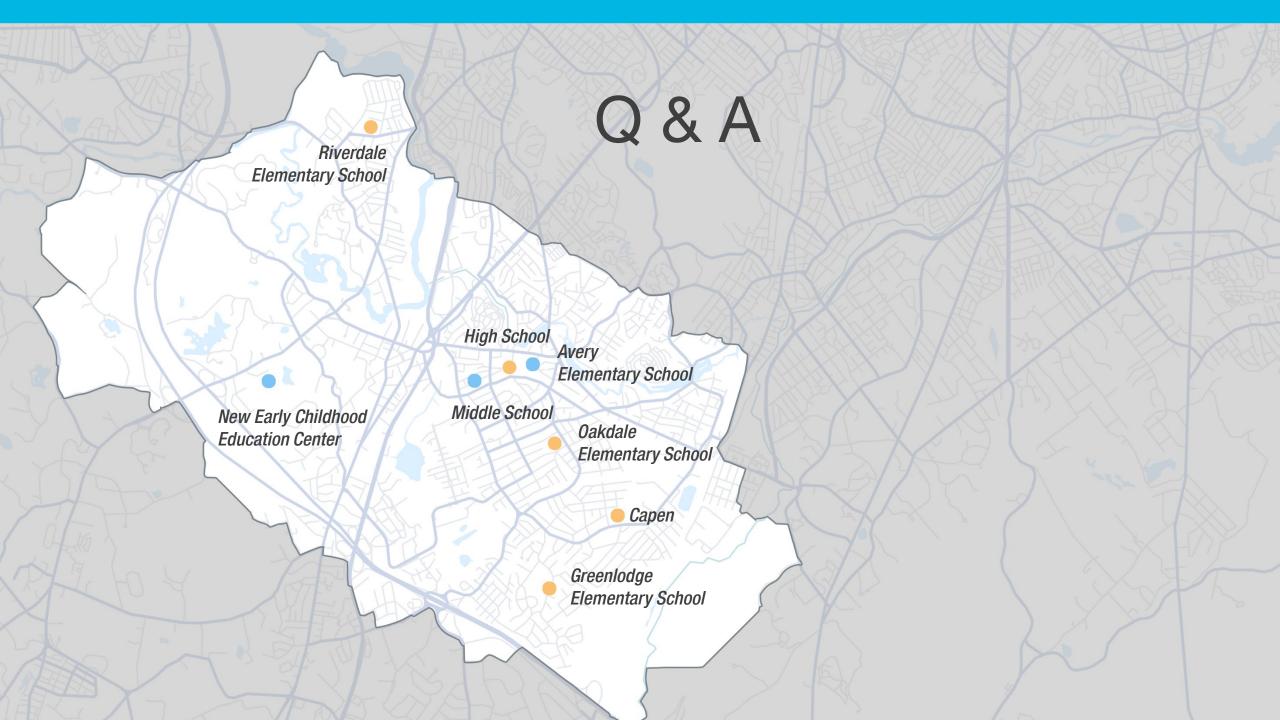
Meeting 3: January 13, 2020

Follow-up & Development of Direction

Elements of the SOI







SMMA

Facilities Master Plan

Community Kickoff Meeting

June 5, 2019







SMMA - Who We Are



Principal-in-Charge /
Educational Planner
Philip Poinelli
FAIA, ALEP

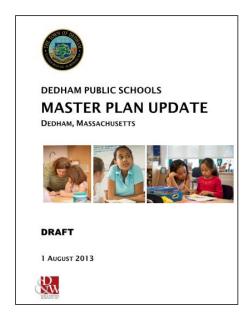


Project Manager Kristen M. Olsen AIA, MCPPO

Prior Studies

2013 Master Plan Update

Dore and Whittier Architects



Reviewed many options!

Resulted in the successful prioritization and completion of the new ECEC building.

2015 ECEC Feasibility Study

KBA Architects



Prior Studies

2016 Facility Condition Assessment EMG Corp.

FACILITY CONDITION ASSESSMENT

Prepared for

Town of Dedham Schools 100 Whiting Avenue Dedham, Massachusetts 02026



FACILITY CONDITION ASSESSMENT

DEDHAM-GREENLODGE ELEMENTARY SCHOOL 191 GREENLODGE STREET DEDHAM, MA 02026

PREPARED BY:

EMG CONTACT:

EMG PROJECT #:

DATE OF REPORT:

ONSITE DATE:

Town of Dedham Schools 100 Whiting Avenue Dedham, Massachusetts 02026

Prepared for



FACILITY CONDITION ASSESSMENT

FACILITY CONDITION ASSESSMENT

DEDHAM-OAKDALE ELEMENTARY SCHOOL 147 CEDAR STREET DEDHAM, MASSACHUSETTS 02026

PREPARED BY:

EMG 10461 Mill Run Circle, Suite 110 Owings Mills, Maryland 21117 800 733 0660

EMG CONTACT:

Bill Champion Program Manager 800,733.0660 x6234 bchampion@emgcorp.com

EMG PROJECT #:

DATE OF REPORT:

ONSITE DATE:

FACILITY CONDITION ASSESSMENT

Prepared for

Town of Dedham Schools 100 Whiting Avenue Dedham, Massachusetts 02026



FACILITY CONDITION ASSESSMENT

DEDHAM-RIVERDALE ELEMENTARY SCHOOL 143 NEEDHAM STREET DEDHAM, MASSACHUSETTS 02026

PREPARED BY

EMG 10451 Mill Run Circle, Suite 1100 Owings Mills, Maryland 21117 800 733 0660 Wash FMGcorp com

EMG CONTACT:

Bill Champion Program Manager 800,733,0650 x6234 bchampion@emgcorp.com

EMG PROJECT #:

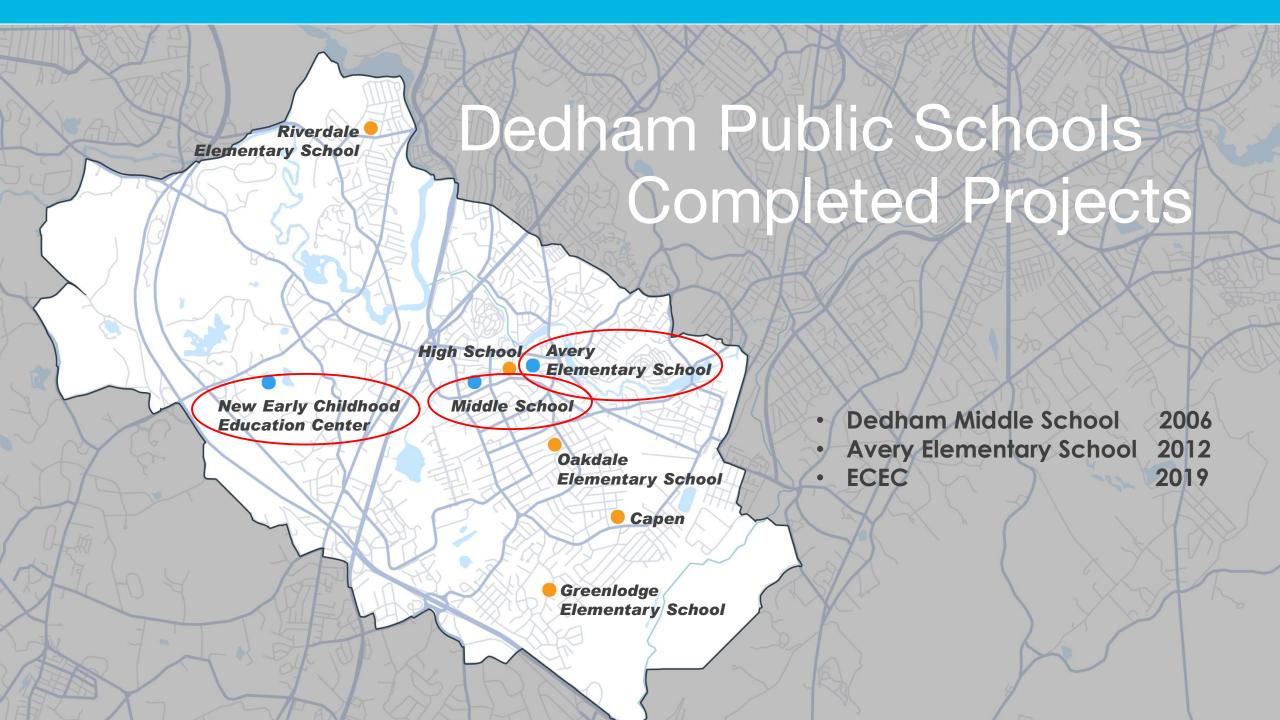
DATE OF REPORT:

ONSITE DATE:









Integrated Planning & Design

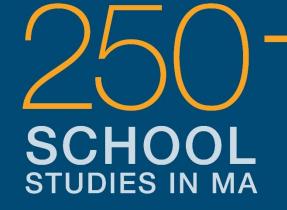


K-12 BY THE NUMBERS

MASTER PLANS IN



TOTAL CONSTRUCTION LAST 10 YEARS IN MA AND RI

























Recent Master Planning Experience



Ashland School District 5 Schools



Belmont Public Schools
6 Schools



Boston Public Schools 134 Schools, Educational & Facilities Master Plan



Brookline High School Educational Master Plan



East Longmeadow School District





Hamilton-Wenham Regional School District 5 Schools



Lawrence Public Schools 21 Schools



Lexington Public Schools 9 Schools



Sharon High School
High School Educational Master
Plan



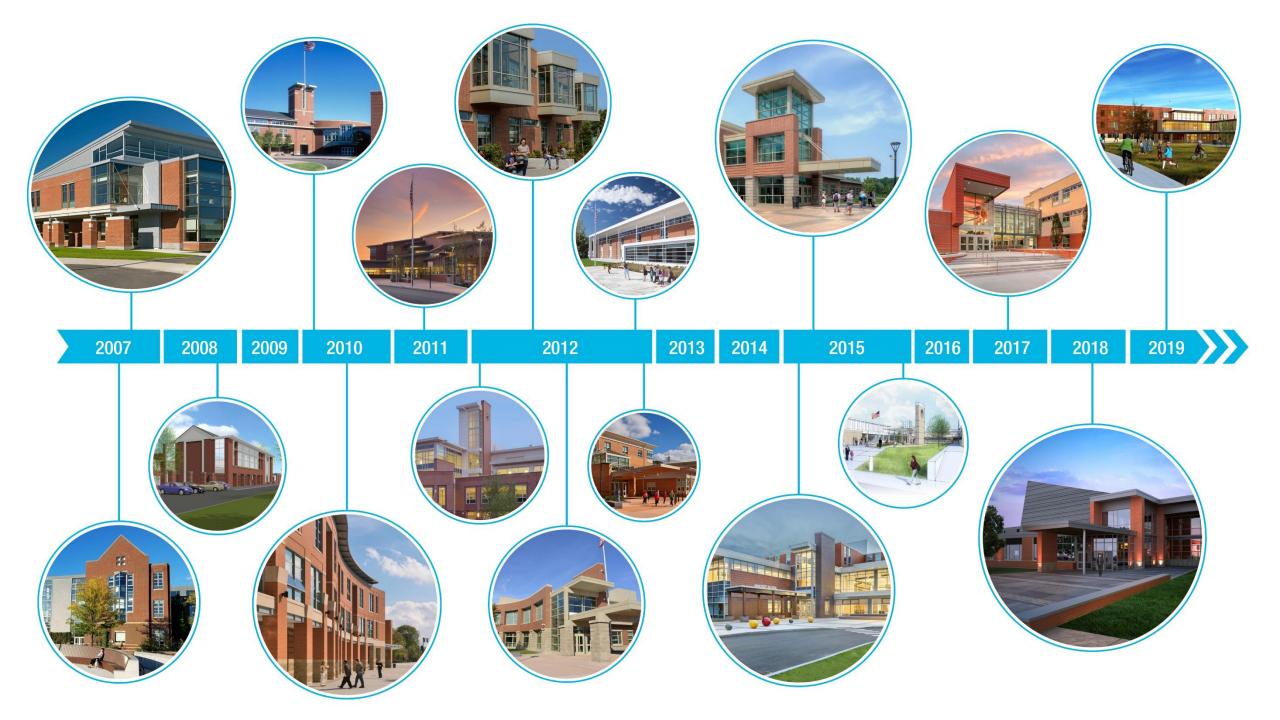
Waltham School District 9 Schools

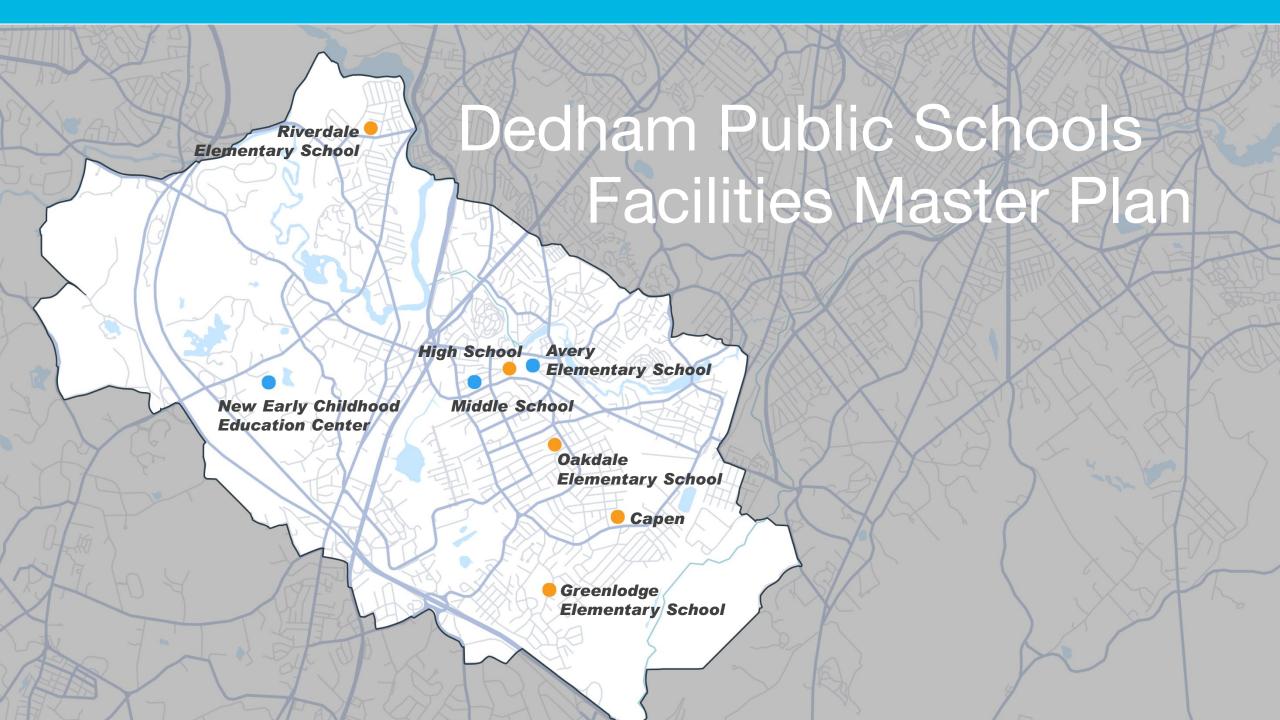


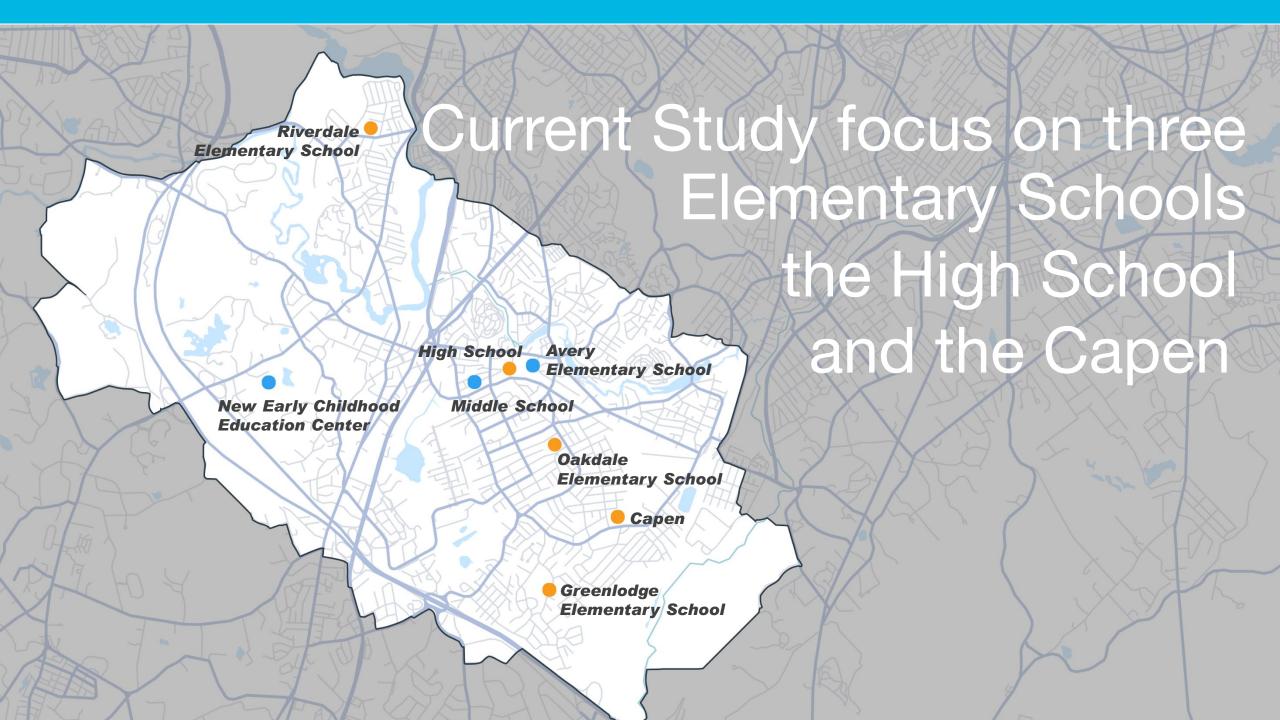
Wellesley School District 9 Schools



Westwood School District 7 Schools







District	School	Туре	Year Founded	2016/2017 Enrollment	Total GSF	SF/ Student	Classroom Count	Students/ Classroom	Building Conditions Rating	Capacity Rating	General Environmental Rating
Dedham	Avery	ES	2012	308	61,000	116.8	-	-	-	-	-
Dedham	Dedham High	HS	1969	739	307,323	415.9	72	10.3	1	Under	1
Dedham	Dedham Middle School	MS	2006	631	162,000	256.7	-	-	-	-	-
Dedham	Early Childhood Center	PreK/K	1931	282	26,000	92.2	-	-	-	-	-
Dedham	Greenlodge	ES	1955	278	51,084	183.8	19	14.6	2	Average	1
Dedham	Oakdale	ES	1902	272	53,524	179.8	21	13.0	3	Average	1
Dedham	Riverdale	ES	1920	183	37,299	203.8	16	11.4	2	Average	1

Scoring Rubric (Ratings 1-4) best to poorest

- 1. Building Condition
- 2. General Environment
 - Learning Environments
 - Building Safety
 - Universal Accessibility
 - Academic Sufficiency
 - Program Sufficiency
 - Instructional Technology

- 3. Capacity Utilization
 - Underutilized (less than 80% capacity utilization
 - Average Utilization (between 80% 125% capacity utilization)
 - Over Utilization (equal to or greater than 125 % -capacity utilization)

http://www.massschoolbuildings.org/programs/school survey

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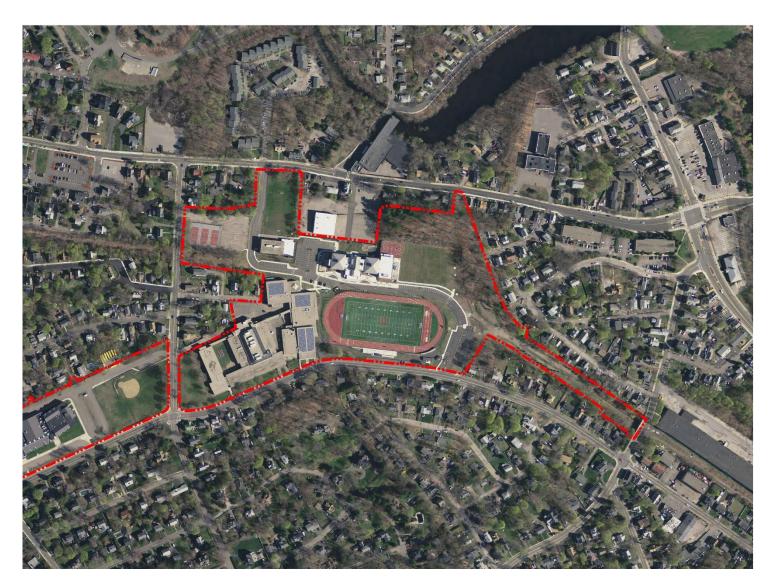
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http://www.massschoolbuildings.org/programs/school survey

Dedham High School



- Built in 1959
- Renovations in 1967 & 1974
- 767 Students
- Site 11.4 acres
- Classrooms are undersized
- Public spaces are oversized



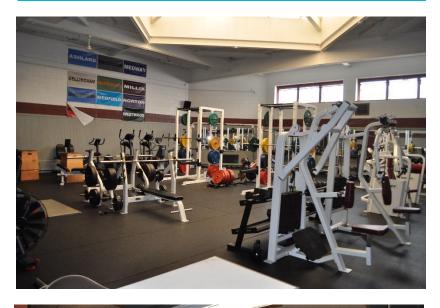
Dedham High School Uses

- High School Academics
- DPS Central Administration including Business Office
- DPS Facilities Department use
- DPS Commissary Kitchen for all schools
- Youth Commission Offices
- Athletics and Fitness Center

• If New, MSBA Guidelines: 159,000 GSF

Quick Facts:

• 307,323 square feet





Capen



- Built in 1931
- Additions in 1970
- 250 Student Capacity (PK-K)
- Historic Status none
- Modest Site Size (4-5 acres)
- Classrooms are undersized
- Traditional Layout



Capen - Building Conditions

- Lack of handicapped access to the 2nd floor + significant parts of the building
- Numerous other issues of accessibility
- Wood construction in original building
- Lack of automatic fire protection system
- Obsolete mechanical H&V system, no air conditioning
 --frequent too hot / too cold for T&L
- Inadequate electrical systems
- Window replacement needed
- Cosmetic issues
 --floors, ceilings, walls (work might be categorized as minor)





Capen - Educational Facility Effectiveness

- Typical classrooms are significantly undersized
- No cafeteria (meals in classrooms)
- Undersized gym & library/media center
- Numerous issues with building conditions that support teaching and learning:
 - --lighting; temperature; ventilation, acoustics
- Issues related to safe and secure learning environments
- Need for additional Special Education space



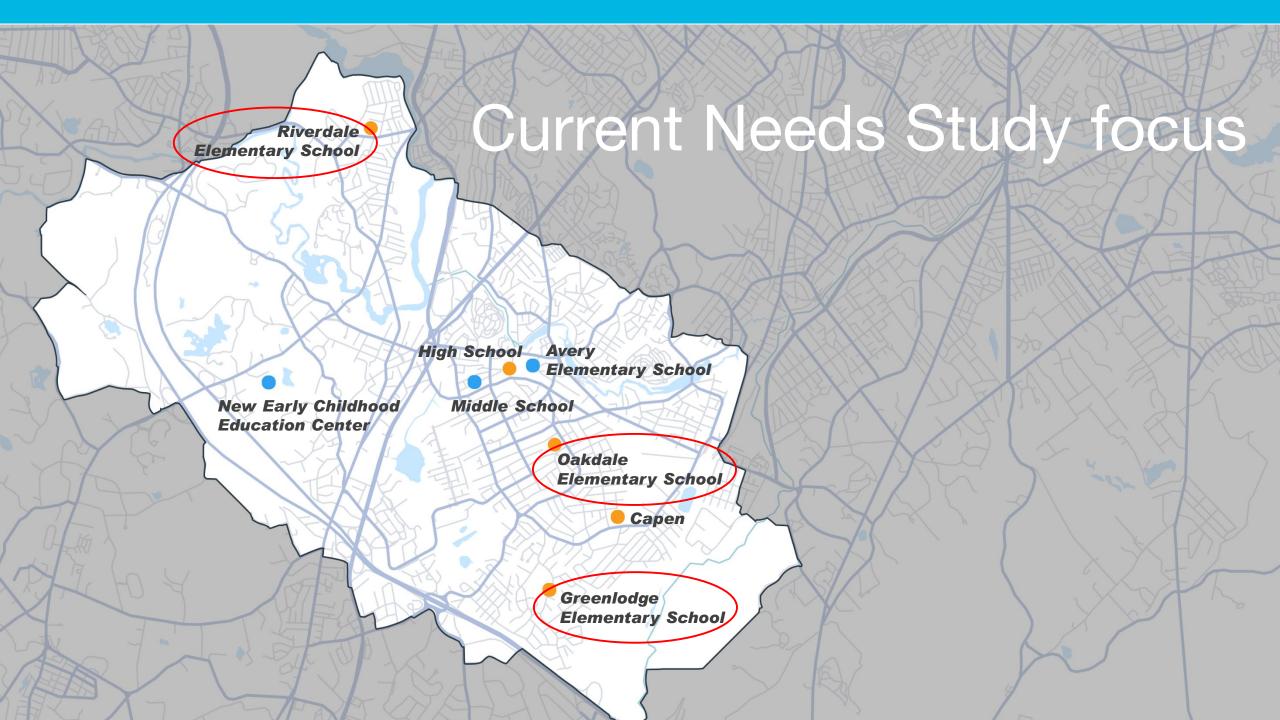
Capen as Swing Space?



- Comparable Educational Needs:
 - General Education Classrooms
 - Additional Special Education Space
 - Art Room
 - Music Room
 - Handicapped Accessibility

Schedule:

- Would not be needed for 4+ years!
- Will require heating and ventilation in "mothballed" state.



District	School	Туре	Year Founded	2016/2017 Enrollment	Total GSF	SF/ Student	Classroom Count	Students/ Classroom	Building Conditions Rating	Capacity Rating	General Environmental Rating
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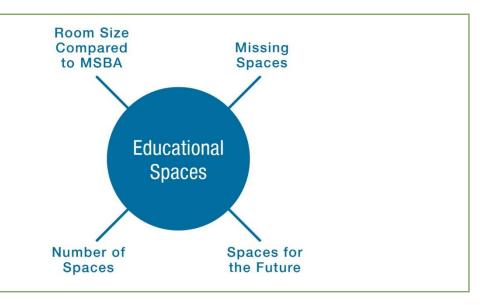
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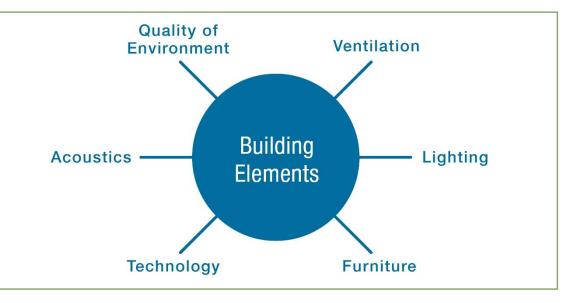
http://www.massschoolbuildings.org/programs/school survey

Elements of Educational Facility Effectiveness









Greenlodge Elementary School



- Built in 1955
- Additions 1961 &1970
- 247 Students
- Large Site (partially hilly)
- Traditional Layout



Oakdale Elementary School



- Built in 1902
- Additions in 1951 & 1970
- 271 Students
- Historic Status none
- Modest Site Size
- Classrooms are undersized
- Traditional Layout



Riverdale Elementary School



- Built in 1921
- Additions in 1930 & 1970
- 172 Students
- Historic Status none
- Modest Site Size
- Classrooms are undersized
- Traditional Layout



Educational Facility Effectiveness

Conditions at the three schools vary somewhat but generally:

- Classroom vary in sizes some meet MSBA Guidelines but oldest buildings have significantly small rooms
- No cafeteria (meals in classrooms)
- Undersized gym, undersized libraries in 2 schools
- Numerous issues with building conditions that impede teaching and learning:
 --lighting, temperature, ventilation, acoustics
- Issues related to safe and secure learning environments
- Need for additional Special Education spaces





Building Conditions Issues

- Limited handicapped access to significant parts of the building
- Wood construction in two of the oldest buildings, including stairs
- Numerous other issues of accessibility
- Obsolete mechanical heating and ventilation system, no air conditioning
 - --frequently too hot / too cold for teaching and learning
- Inadequate electrical systems
- Obsolete plumbing systems, lack of automatic fire protection
- Window replacement needed
- Cosmetic issues
 - --floors, ceilings, walls (work might be categorized as minor)





MSBA Statement of Interest (SOI) Process

- Submitting an SOI is the first critical step in the MSBA's program
 to partially fund the construction, renovation, addition or repair of
 municipally owned school facilities located in cities, towns and
 regional school districts.
- The SOI allows districts to inform us (MSBA) about deficiencies that may exist in a local school facility and how those deficiencies inhibit the delivery of the district's educational program.
- Core (Capital) Program vs. Accelerated Repairs
- Initially identify one school but may be asked to document all three schools

Massachusetts School Building Authority (MSBA) - SOI Priorities:

- 1. Replacement or renovation of a building which is structurally unsound or otherwise in a condition seriously jeopardizing the health and safety of school children.
- 2. Elimination of existing severe overcrowding;
- 3. Prevention of the loss of accreditation;
- 4. Prevention of **severe overcrowding expected** to result from increased enrollments, which must be substantiated;
- 5. Replacement, renovation or **modernization of school facility systems**, such as roofs, windows, boilers, heating and ventilation systems, to increase energy conservation and decrease energy related costs in a school facility;
- 6. Short term enrollment growth;
- 7. Replacement of or addition to **obsolete buildings** in order to provide a full range of programs consistent with state and approved local requirements; and
- 8. Transition from **court-ordered** and approved racial balance school districts to walk-to, so-called, or other school districts.

Feasibility Study

- With the Owner's Project Management and Designer in place: The District and its team collaborate with the MSBA to document their educational program / initial space summary, document existing conditions, develop and evaluate alternatives, and recommend the most cost effective and educationally appropriate preferred solution
- Test alternative sites, site solutions
- Possibly explore alternative school sizes (populations)
- Select a preferred solution
- At this stage, the project becomes reimbursable

Massachusetts School Building Authority (MSBA) - SOI Process:

January 2020 SOI period opens

April 2020 SOI period closes

Review SOI for Completeness

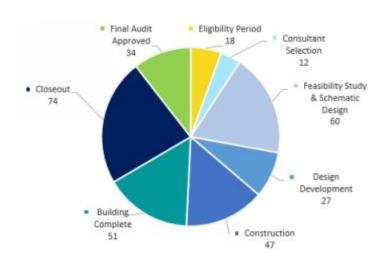
Review SOI and accompanying documents for content

Conduct Senior study visits if required

Recommend SOIs for initiation into Eligibility Period

Typically MSBA release accelerated repair projects in June/July and Core Program Projects in <u>December</u>.

Capital Pipeline Overview



2018 (70) SOI's Submitted, 12 invited into Eligibility

2019 (83) SOI's Submitted

Massachusetts School Building Authority (MSBA) - Eligibility Period:

- Initial Compliance Certificate
- Form the School Building Committee
 - In place with the permanent SBRC
- Complete educational profile
- Submit District's Maintenance Practices
- Certify Design Enrollment
- VOTE the Feasibility Study Phase funding
- Execute Feasibility Study Agreement (FSA)
- Receive authorization to begin Feasibility Study
- Process has up to 10 Months to complete

Module 1 – Eligibility Period Eligibility Period Up to 270 Days **Educational Profile** Board of up to 90 days Directors up to 60 days up to 30 days Online Enrollmen authorizes Invitation up to 90 days to Eligibility Period Local Authorization of Funding Maintenance Documents (Submit Votes and Sign FSA) and Enrollment Certification up to 270 days up to 180 Days Board of Directors authorizes Invitation to Feasibility Study and authorizes Executive Director to enter into a Feasibility Study Agreement Upon Invite to Eligibility Period, Districts complete defined

requirements within the timeframes listed above

Massachusetts School Building Authority (MSBA) - Building Process:

SOI Process – Approx. 12 months

Eligibility Period - Approx. 10 months

Feasibility Study – Approx. 9 months

Schematic Design-Approx. 6 months

Development Design-Approx. 5 months

Construction Documents—Approx. 8 months

Construction—Approx. 24 months

Close Out– Approx. 3 months

Total: 77 months (6.5 years) - Assumes an "Invitation" based on the SOI initial submission

MSBA Building Process

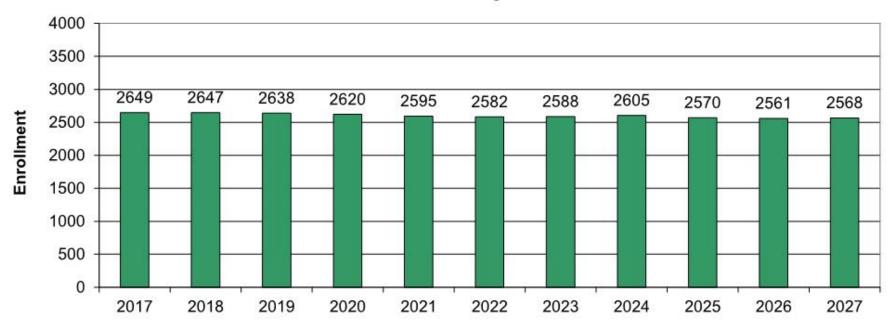


Enrollment Projections

NESDEC

Dedham, MA Projected Enrollment

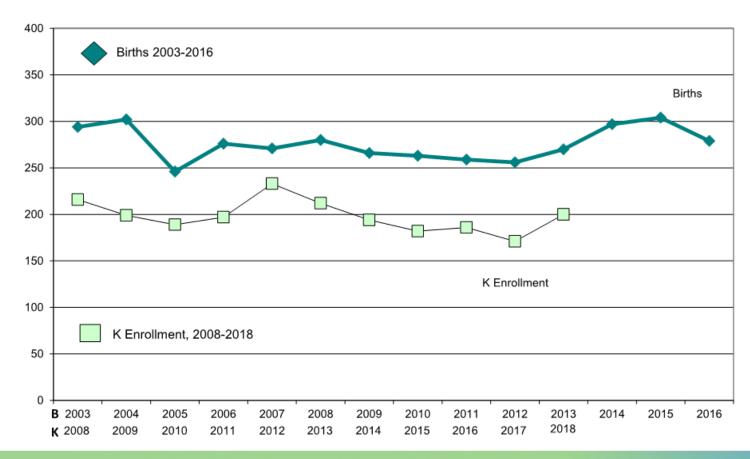
PK-12 TO 2027 Based On Data Through School Year 2017-18



Birth Rate

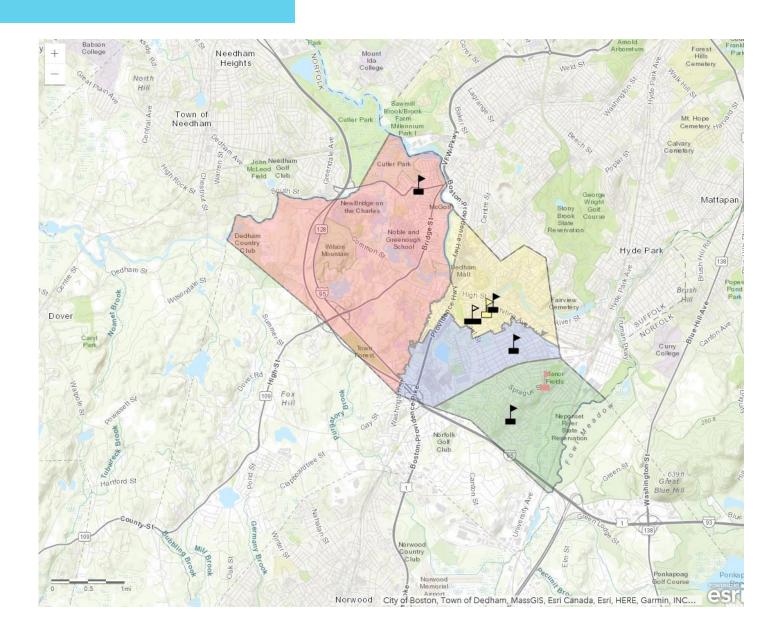
NESDEC

Dedham, MA Birth-to-Kindergarten Relationship



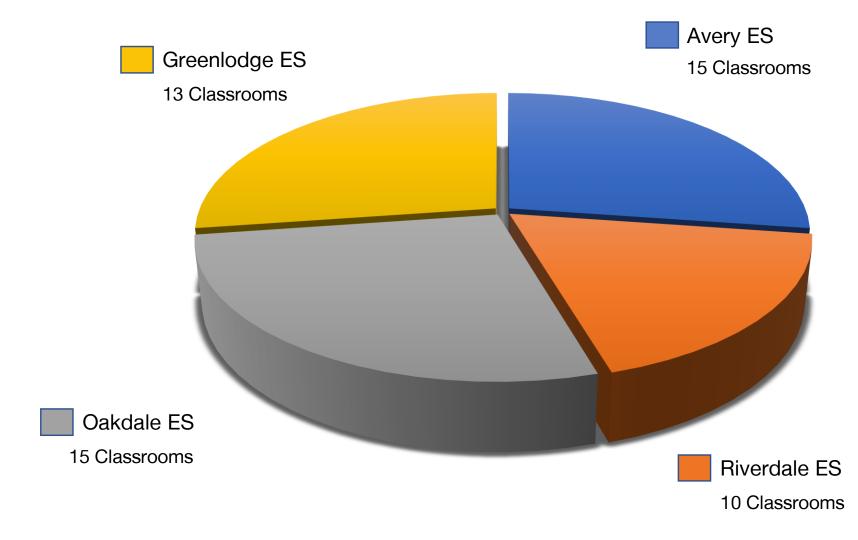
©New England School Development Council • 508-481-9444 • www.nesdec.org

Current Elementary School Districts



Current Schools Configuration / Classrooms

Mostly Undersized Classrooms



Total: 53 Classrooms 994 Students

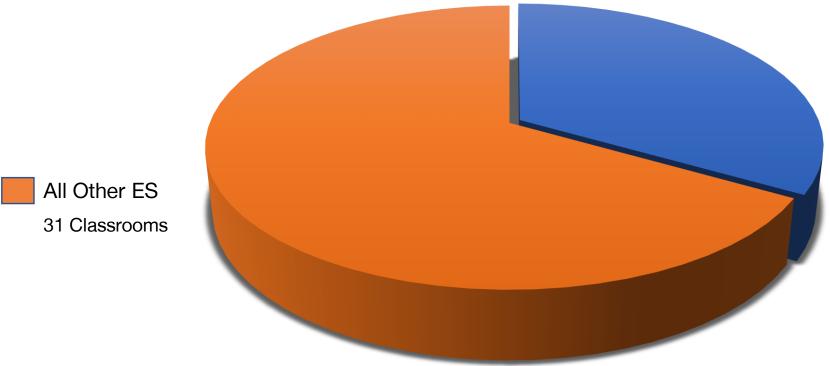
2028 - 29 School / Classroom Need

Assumes:

- Properly sized classrooms 900-950sf
- 23 Students/Classroom (MSBA Guidelines)



Avery ES



Total:

46 Classrooms

1,060 Students

Next Steps

		Curi	2028 – 29 Needs w/ MSBA Criteria					
	2018-19 Population	Classrooms / Grade	Total Classrooms	Average Class Size	Class Size	Classrooms / Grade	Population	
Avery	304	3	15	20.3	23	15	345	
Riverdale	172	2	10	17.2	23			
Oakdale	271	3	15	18	23	31	715	
Greenlodge	247	3	14	17.6	23			
	994	11	54	18.4		46	1,060	

Community Engagement and Input

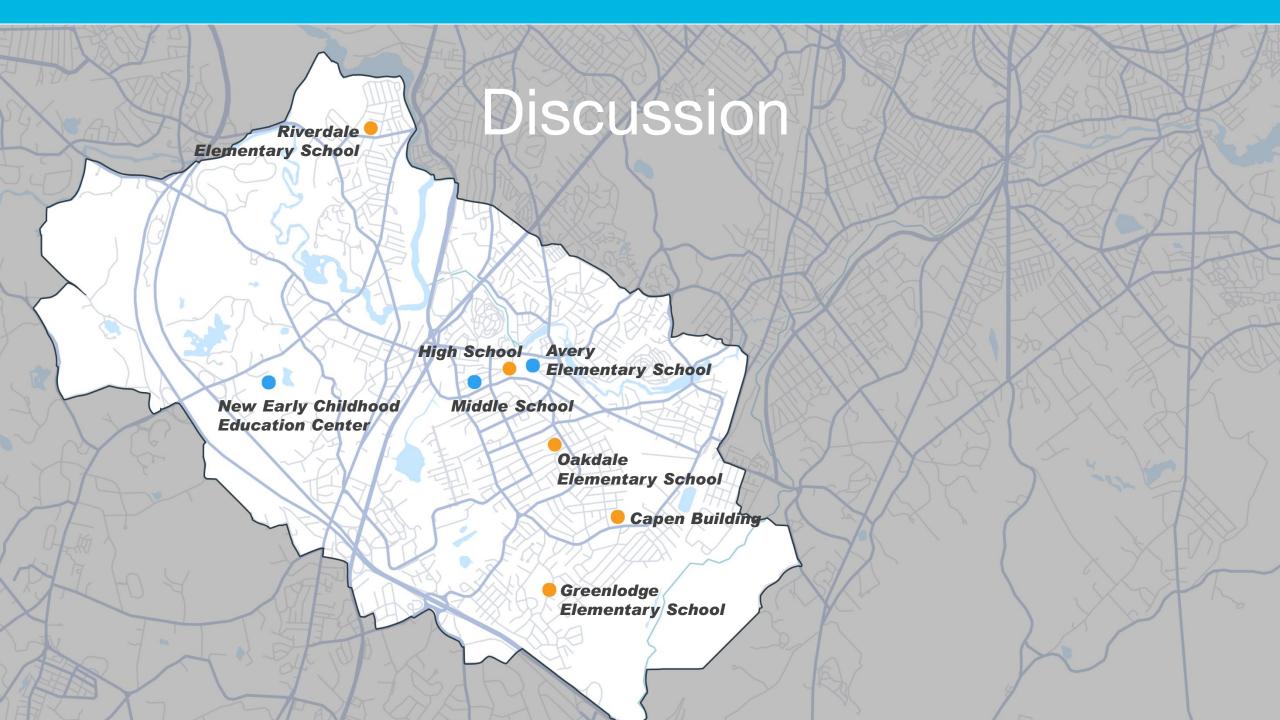
- Fall Meetings
 - Meeting 1 September 2019

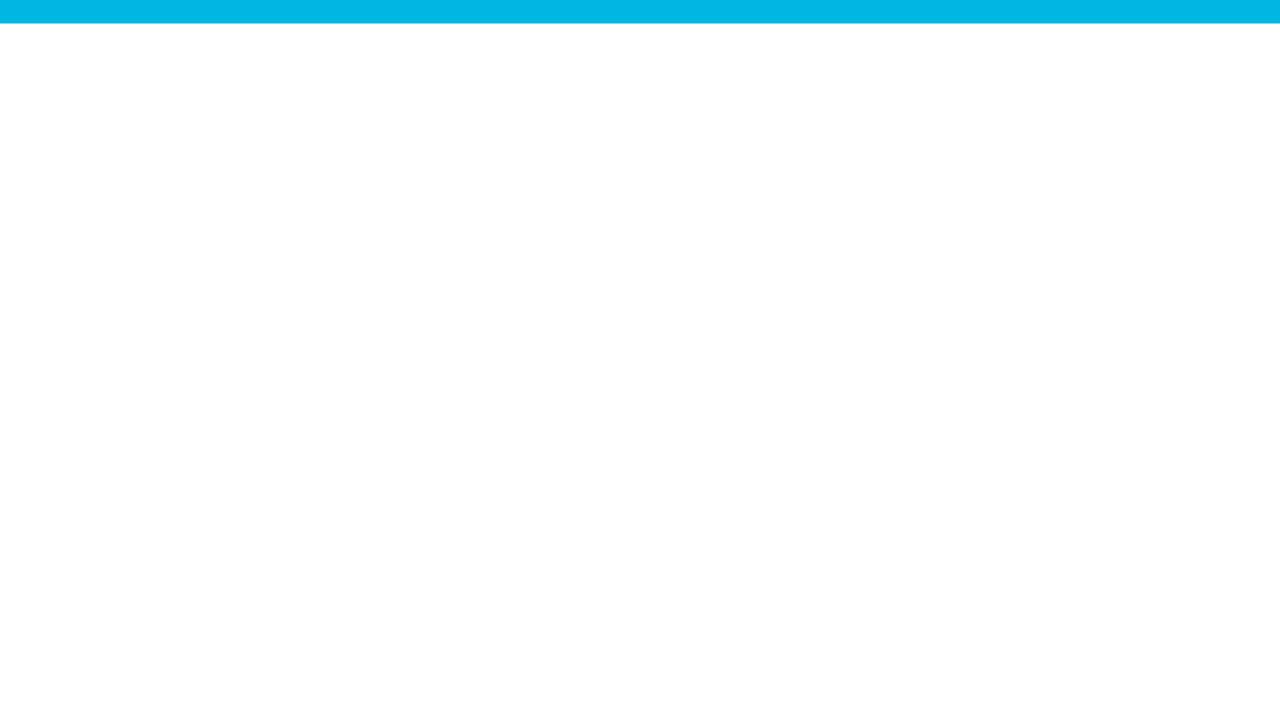
 at each School

 Building Conditions, Site(s), Enrollment
 Community Priorities and Goals
- SOI Development
 - Meeting 2 October 2019Options & Discussion
 - Meeting 3 Early December 2019
 Follow-up & Development of Direction
 Elements of the SOI









SMMA

Facilities Master Plan - Progress Report

Dedham School Committee & School Rehabilitation Committee Joint Meeting December 11, 2018







Who We Are



Principal-in-Charge /
Educational Planner
Philip Poinelli
FAIA, ALEP



Project Manager Kristen M. Olsen AIA, MCPPO

Integrated Planning & Design

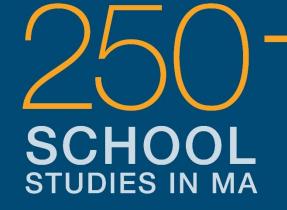


K-12 BY THE NUMBERS

MASTER PLANS IN



TOTAL CONSTRUCTION LAST 10 YEARS IN MA AND RI

























Recent Master Planning Experience



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Belmont Public Schools
6 Schools



Boston Public Schools 134 Schools, Educational & Facilities Master Plan



Brookline High School Educational Master Plan



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Hamilton-Wenham Regional School District 5 Schools



Lawrence Public Schools 21 Schools



Lexington Public Schools
9 Schools



Sharon High School
High School Educational Master
Plan



Waltham School District 9 Schools



Wellesley School District 9 Schools



Westwood School District 7 Schools

Recent New and Renovation Experience



Bancroft Elementary School



North Middlesex Regional High School



Parker Elementary School



Quincy High School



The Center Elementary School



Somerville High School



Ayer Shirley High School



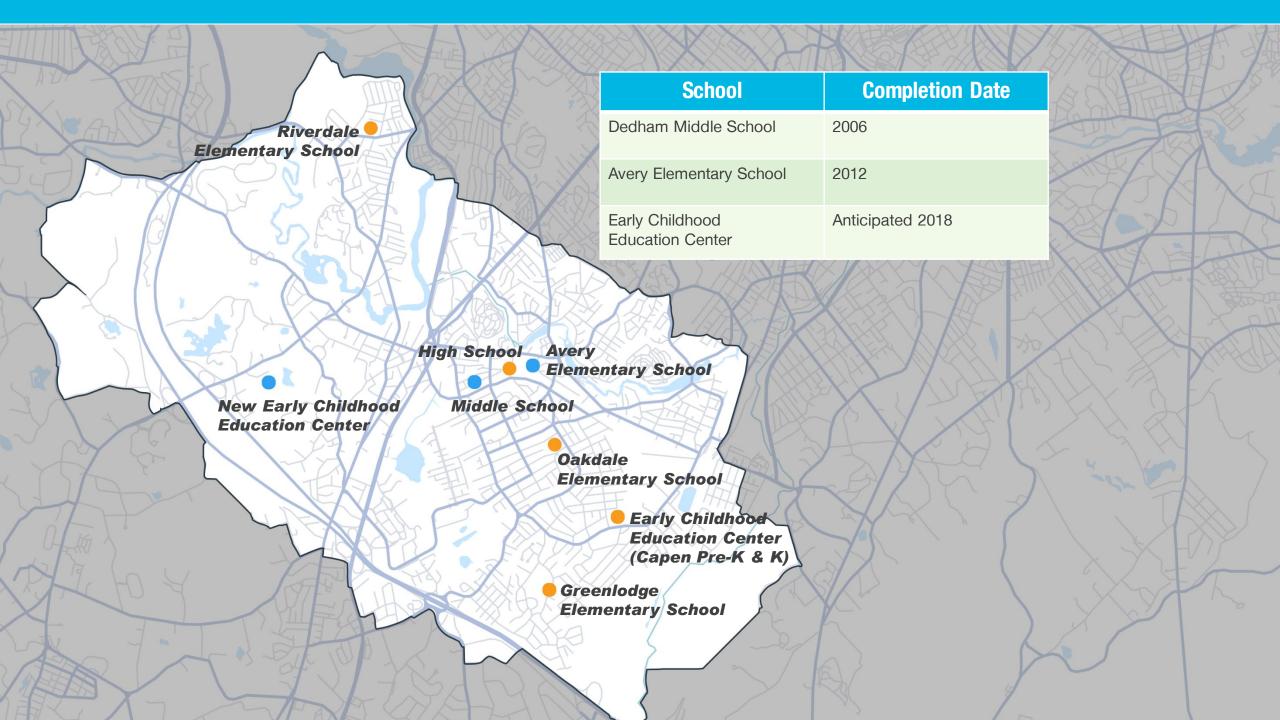
Wellesley High School



Grafton High School

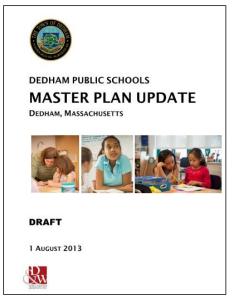


Winchester High School



Data Collection & Analysis

2013 Master Plan Update



Capital Improvement Program

Option 1:

Reno/Add to each Elementary and ECEC on existing site.

Option 1a:

Reno/Add to each Elementary on existing site. Add/Reno of Dexter for ECEC.

Option 2:

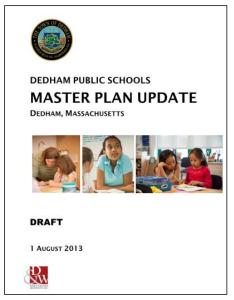
Demo each Elementary and ECEC. Build each new on existing sites.

Option 2a:

Demo each Elementary and build new on existing sites. Demo Capen/Curran and build new ECEC on Dexter School site.

Data Collection & Analysis

2013 Master Plan Update



Capital Improvement Program

Option 1:

Reno/Add to each Elementary and ECEC on existing site.

Option 1a:

Reno/Add to each Elementary on existing site. Add/Reno of Dexter for ECEC.

Option 2:

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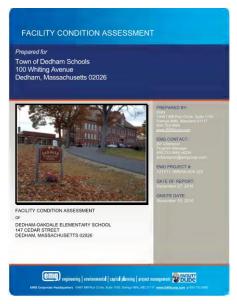
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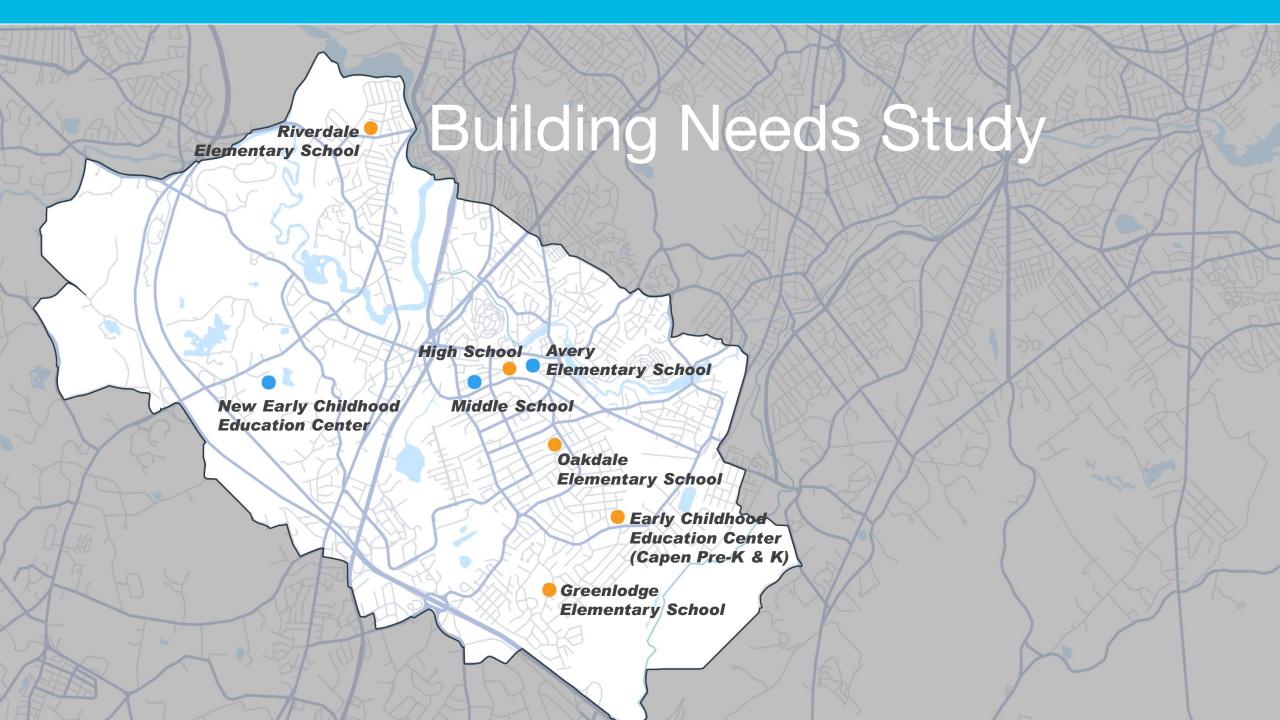


Data Collection & Analysis

2016 Facility Condition Assessments



PROPERTY INFORMATION						
Address:	147 Cedar Street, Dedham, Norfolk, Massachusetts 02026					
	1902 Main multi-story building					
Year Constructed/Renovated:	1952 Southern wing including gymnasium					
	1960 Two end additions, two classrooms each (14, 15, 21, 22)					
Current Occupants:	Approximately 275 students and 40 faculty					
Percent Utilization:	95					
Management Point of Contact:	Denise Moroney, 781-310-1141 phone					
Property Type:	Classrooms, Offices					
Site Area:	Approximately 7.00 acres					
Building Area:	53,524 SF					
Number of Buildings:	4					
Number of Stories:	3					
Parking Type and Number of Spaces:	47 spaces in open lots					
Building Construction:	Conventional wood frame structure on concrete slab. Masonry bearing walls and wood-framed roofs. Steel frame with concrete-topped metal decks. Concrete till-up bearing walls and wood panel roof.					
Roof Construction:	Gabled roofs with asphalt shingles. Flat roofs with built-up membrane.					
Exterior Finishes:	Brick Veneer					
	The original three-story1902 building has a central steam boiler connected to a passive steam heating system and steam radiators. Th building has steam heated Air Handler Units (AHUS) that appear to bring in fresh outdoor air to mix with internally heated air to classrooms.					
Heating, Ventilation & Air	The 1952 wing has a central steam dual boiler system connected to un ventilators and radiators.					
Conditioning:	Supplemental units in the 1902 building include fan-driven exhaust ducts connected to the chimney to pull air up through the building and multiple unit heaters					
	Supplemental units in the 1952 wing include vent fans and unit heaters					
	Supplemental units in the 1960 end additions include electric baseboard and unit ventilators					
Fire and Life/Safety:	Smoke detectors, heat detectors, alarms, strobes, extinguishers, manual pull stations, alarm panel, exit signs.					
Dates of Visit:	November 10, 2016					



MSBA 2016 School Survey

Massachusetts School Building Authority - 2016 School Survey Report

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Dedham	Dedham High	HS	1959	739	307,323	415.9	72	10.3	1	Under	1
Dedham	Dedham Middle School	MS	2006	631	162,000	256.7	*	*	*	*	*
Dedham	Early Childhood Center	PreK/K	1931	282	26,000	92.2	*	*	*	*	*
Dedham	Greenlodge	ES	1955	278	51,084	183.8	19	14.6	2	Average	1
Dedham	Oakdale	ES	1902	272	48,909	179.8	21	13.0	3	Average	1
Dedham	Riverdale	ES	1920	183	37,299	203.8	16	11.4	2	Average	1

Scoring Rubric (Ratings 1-4) best to poorest

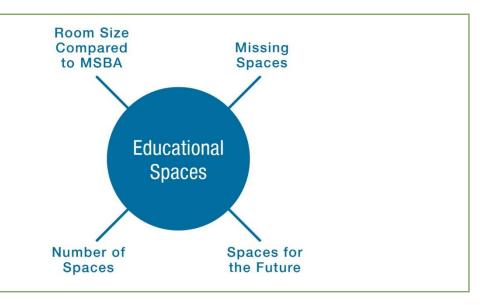
- 1. Building Condition
- 2. General Environment
 - Learning Environments
 - Building Safety
 - Universal Accessibility
 - Academic Sufficiency
 - Program Sufficiency
 - Instructional Technology

- 3. Capacity Utilization
 - Underutilized (less than 80% capacity utilization
 - Average Utilization (between 80% 125% capacity utilization)
 - Over Utilization (equal to or greater than 125 % -capacity utilization)

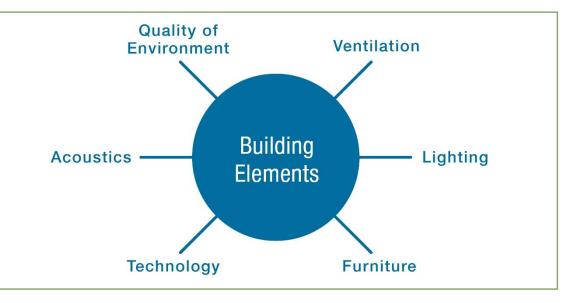
http://www.massschoolbuildings.org/programs/school survey

Elements of Educational Facility Effectiveness









Greenlodge Elementary School



Quick Facts

- Built in 1955
- Additions 1961 &1970
- 247 Students
- Large Site (partially hilly)
- Traditional Layout



Greenlodge - Educational Facility Effectiveness

Classroom sizes generally meet MSBA Guidelines with exceptions

No cafeteria (meals in classrooms)

Undersized gym

Numerous issues with building conditions that impede teaching and learning:

--lighting, temperature, ventilation, acoustics

Issues related to safe and secure learning environments

Need for additional Special Education spaces





Greenlodge - Building Conditions Issues

Limited handicapped access to significant parts of the building

Numerous other issues of accessibility

Obsolete mechanical heating and ventilation system, no air conditioning

--frequently too hot / too cold for teaching and learning

Inadequate electrical systems

Obsolete plumbing systems

Window replacement needed

Cosmetic issues

--floors, ceilings, walls (work might be categorized as minor)





Oakdale Elementary School



Quick Facts

- Built in 1902
- Additions in 1951 & 1970
- 271 Students
- Historic Status none
- Modest Site Size
- Classrooms are undersized
- Traditional Layout



Oakdale - Educational Facility Effectiveness

Typical classrooms in the original building are significantly undersized, most others undersized

No cafeteria (meals in classrooms)

Undersized gym & library/media center

Numerous issues with building conditions that impede teaching and learning:

--lighting, temperature, ventilation, acoustics

Issues related to safe and secure learning environments

Need for additional Special Education spaces





Oakdale - Building Conditions Issues

Lack of handicapped access to significant parts of the building and other accessibility issues

Wooden stair construction / steel fire escapes

Wood construction in original building

Lack of automatic fire protection system

Obsolete mechanical heating and ventilation system, no air conditioning

--frequently too hot / too cold for teaching and learning

Inadequate electrical systems

Window replacement needed

Cosmetic issues

--floors, ceilings, walls (work might be categorized as minor)





Riverdale Elementary School



Quick Facts

- Built in 1921
- Additions in 1930 & 1970
- 172 Students
- Historic Status none
- Modest Site Size
- Classrooms are undersized
- Traditional Layout



Riverdale - Educational Facility Effectiveness

Typical classrooms in the original building are significantly undersized, most are undersized

No cafeteria (meals in classrooms)

Undersized gym & library/media center

Numerous issues with building conditions that support teaching and learning:

--lighting; temperature; ventilation, acoustics

Issues related to safe and secure learning environments

Need for additional Special Education space





Riverdale - Building Conditions Issues

Lack of handicapped access to significant parts of the building

Numerous other issues of accessibility

Wooden stair construction

Wood construction in original building

Lack of automatic fire protection system

Obsolete mechanical H&V system, no air conditioning --frequent too hot / too cold for T&L

Inadequate electrical systems

Window replacement needed

Cosmetic issues

--floors, ceilings, walls (work might be categorized as minor)



Capen-Curran (Current ECEC) Site



Quick Facts

- Built in 1931
- Additions in 1970
- 250 Students (PreK-K)
- Historic Status none
- Modest Site Size (4-5 acres)
- Classrooms are undersized
- Traditional Layout



Capen-Curran - Educational Facility Effectiveness

Typical classrooms are significantly undersized

No cafeteria (meals in classrooms)

Undersized gym & library/media center

Numerous issues with building conditions that support teaching and learning:

--lighting; temperature; ventilation, acoustics

Issues related to safe and secure learning environments

Need for additional Special Education space



Capen-Curran - Building Conditions Issues

Lack of handicapped access to the 2nd floor + significant parts of the building

Numerous other issues of accessibility

Wood construction in original building

Lack of automatic fire protection system

Obsolete mechanical H&V system, no air conditioning

--frequent too hot / too cold for T&L

Inadequate electrical systems

Window replacement needed

Cosmetic issues

--floors, ceilings, walls (work might be categorized as minor)





Capen-Curran – As Swing Space



Comparable Educational Needs:

General Education Classrooms

Additional Special Education Space

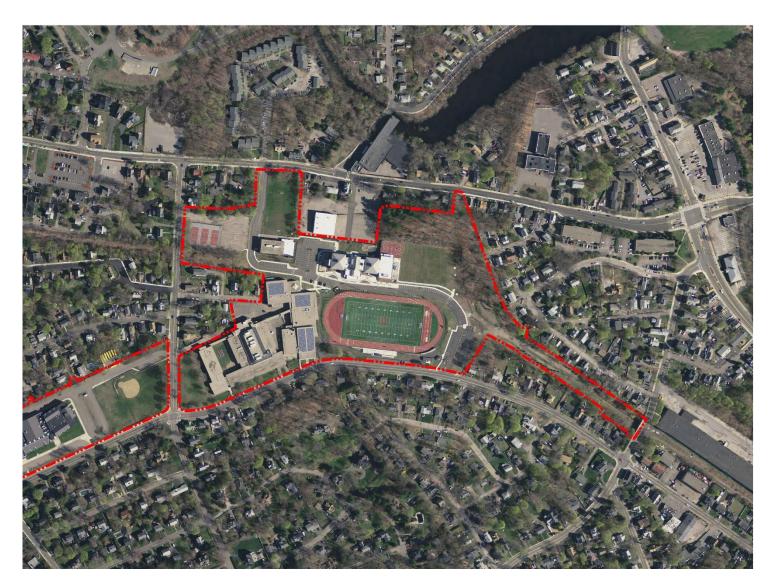
Art Room

Music Room

Handicapped Accessibility

Will require heating and ventilation in mothballed state

Dedham High School



Quick Facts:

- Built in 1959
- Renovations in 1967 & 1974
- 767 Students
- Site 11.4 acres
- Classrooms are undersized
- Public spaces are oversized



Dedham High School Uses

- High School Academics
- DPS Central Administration including Business Office
- DPS Facilities Department use
- DPS Commissary Kitchen for all schools
- Youth Commission Offices
- Athletics and Fitness Center

Quick Facts:

• 307,323 square feet





MSBA 2016 School Survey

Massachusetts School Building Authority - 2016 School Survey Report

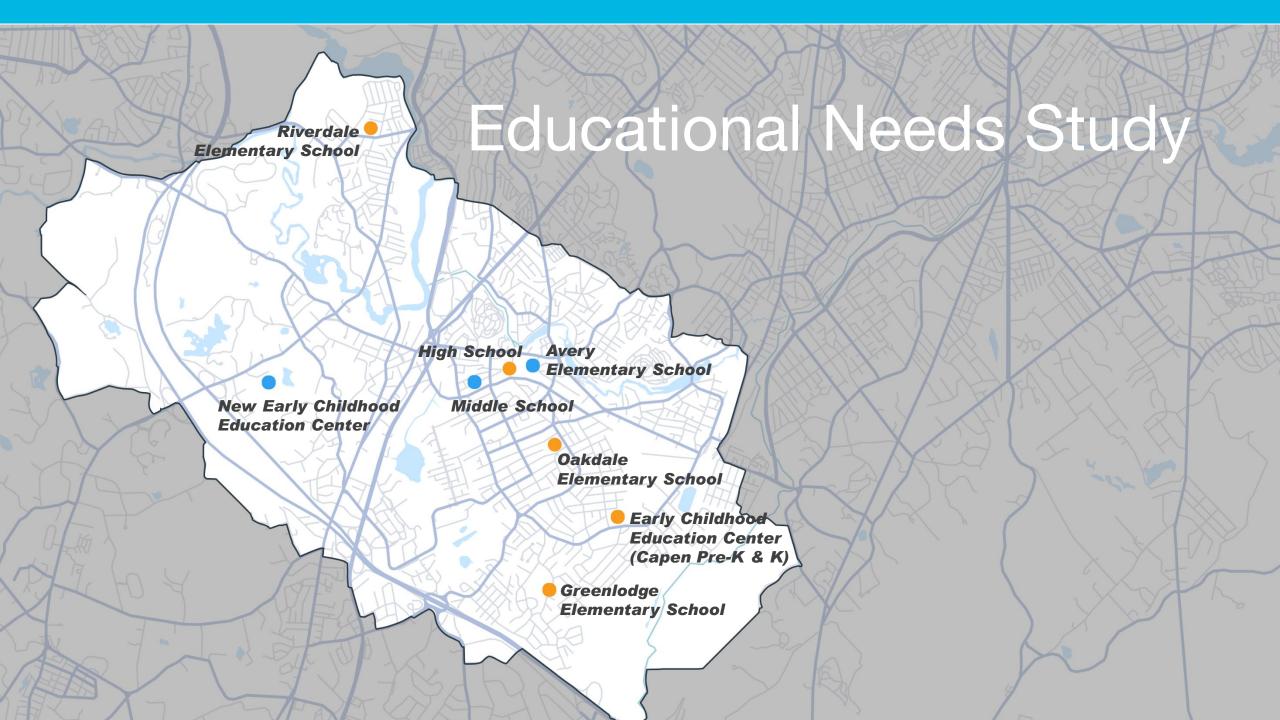
District	School	Туре	Year Founded	2016/2017 Enrollment	Total GSF	SF/ Student	Classroom Count	Students/ Classroom	Building Condition Rating	Capacity Rating	General Environment Rating
Dedham	Avery	ES	2012	308	35,964	116.8	*	*	*	*	*
Dedham	Dedham High	HS	1959	739	307,323	415.9	72	10.3	1	Under	1
Dedham	Dedham Middle School	MS	2006	631	162,000	256.7	*	*	*	*	*
Dedham	Early Childhood Center	PreK/K	1931	282	26,000	92.2	*	*	*	*	*
Dedham	Greenlodge	ES	1955	278	51,084	183.8	19	14.6	2	Average	1
Dedham	Oakdale	ES	1902	272	48,909	179.8	21	13.0	3	Average	1
Dedham	Riverdale	ES	1920	183	37,299	203.8	16	11.4	2	Average	1

Scoring Rubric (Ratings 1-4) best to poorest

- 1. Building Condition
- 2. General Environment
 - Learning Environments
 - Building Safety
 - Universal Accessibility
 - Academic Sufficiency
 - Program Sufficiency
 - Instructional Technology

- 3. Capacity Utilization
 - Underutilized (less than 80% capacity utilization
 - Average Utilization (between 80% 125% capacity utilization)
 - Over Utilization (equal to or greater than 125 % -capacity utilization)

http://www.massschoolbuildings.org/programs/school survey

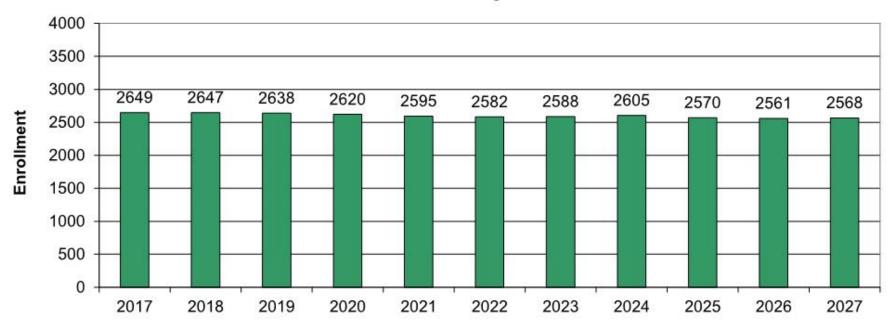


Enrollment Projections

NESDEC

Dedham, MA Projected Enrollment

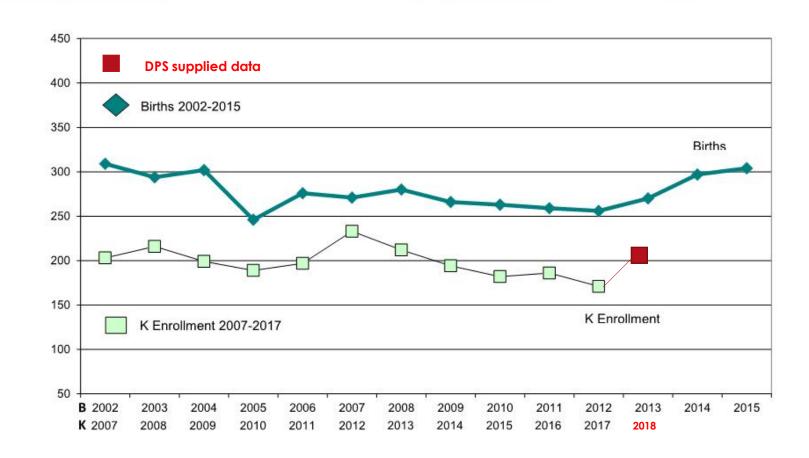
PK-12 TO 2027 Based On Data Through School Year 2017-18



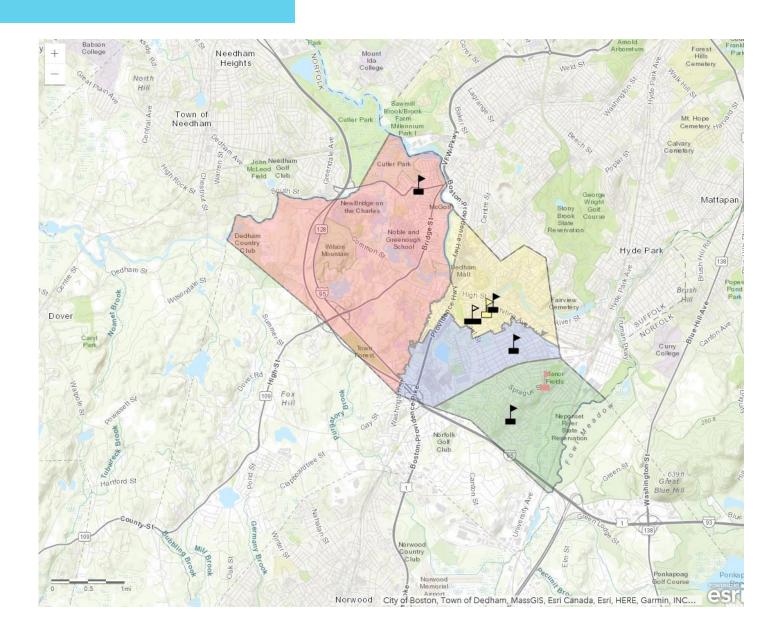
Birth Rate

NESDEC

Dedham, MA Birth-to-Kindergarten Relationship

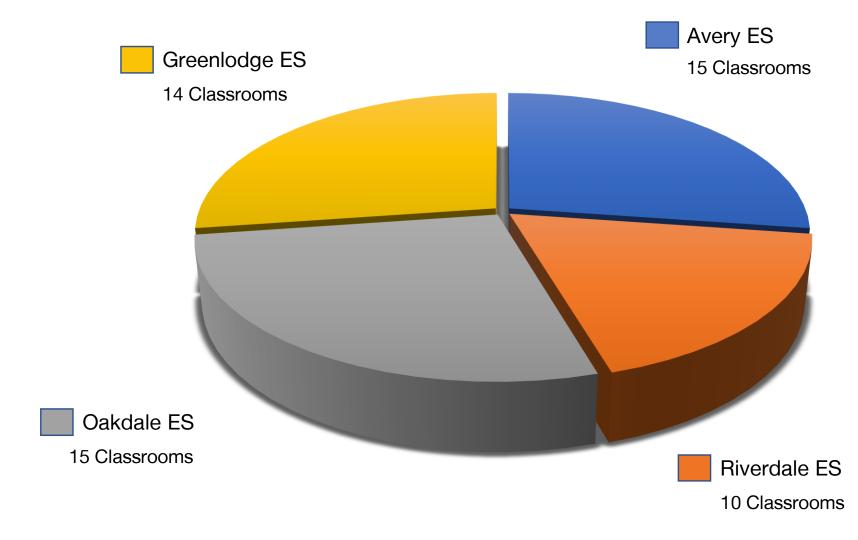


Current Elementary School Districts



Current Schools Configuration / Classrooms

Mostly Undersized Classrooms

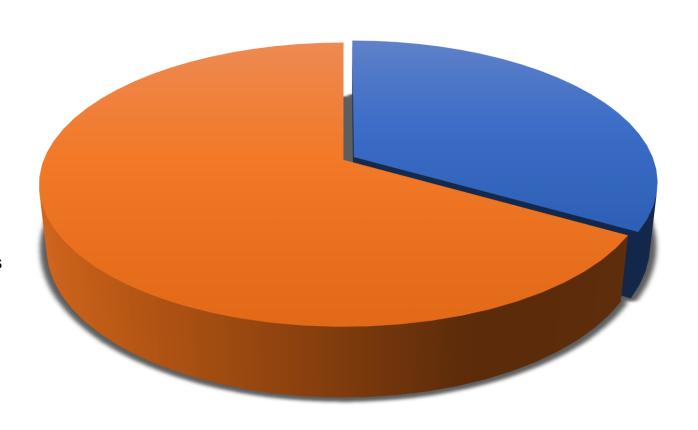


Total: 54 Classrooms 994 Students

2027 School / Classroom Need

Assumes:

- Properly sized classrooms 900-950sf
- 23 Students/Classroom



Avery ES

15 Classrooms

345 Students

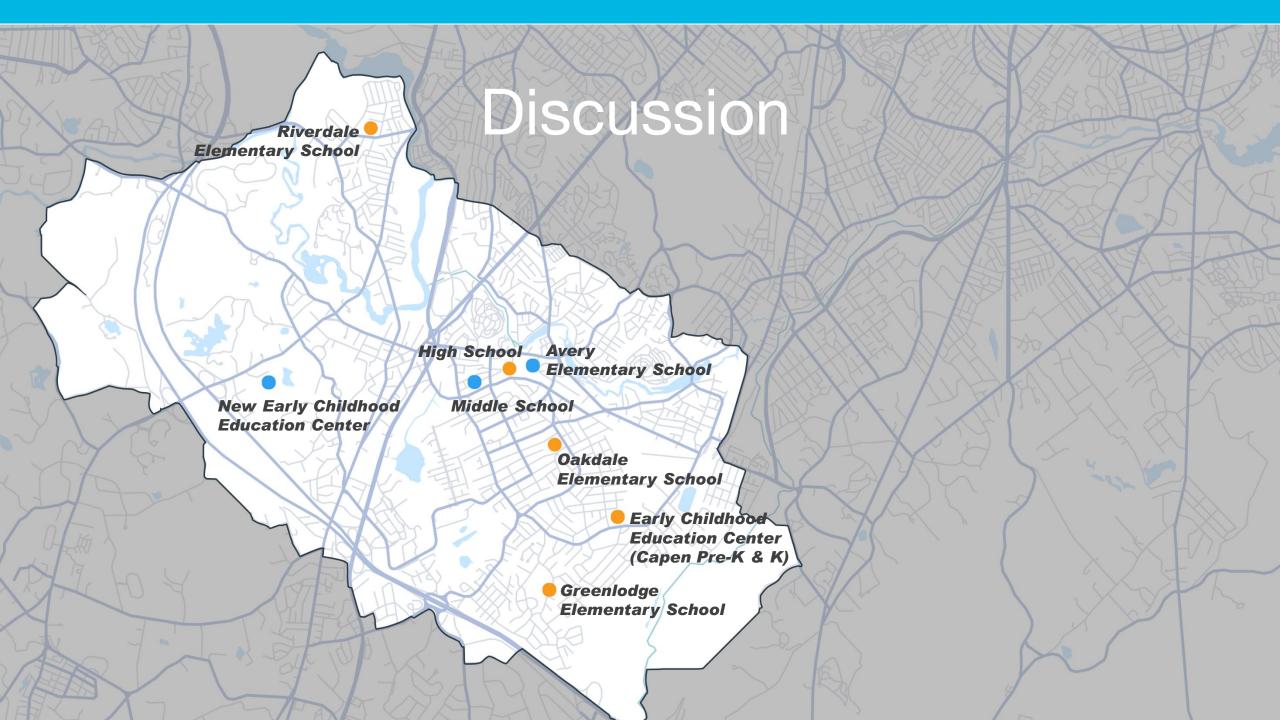
All Other ES
30 Classrooms

Total:

45 Classrooms 1,016 Students

Next Steps

		Curi	2027 N	eeds w/ MSB	A Criteria		
	2018-19 Population	Classrooms / Grade	Total Classrooms	Average Class Size	Class Size	Classrooms / Grade	Population
Avery	304	3	15	20.3	23	15	345
Riverdale	172	2	10	17.2	23		
Oakdale	271	3	15	18	23	30	671
Greenlodge	247	3	14	17.6	23		
	994	11	54	18.4		45	1,016



Navigating Contemporary Education

Pedagogy and curriculum Curriculum delivery methodologies Grade level pedagogy

PAST / PRESENT GOALS Teacher Centric Student Centric Active Learning Classrooms Flexible Learning Environments Conventional Technology 1:1 Technology Environments Individual Collaborative Subject-Based Project / Problem Based





2015 A4LE Ed Kirkbride Award

District Option 1

Three New or Renovated Schools, No Change in District Lines

All schools Grades 1-5

Estimated Enrollment

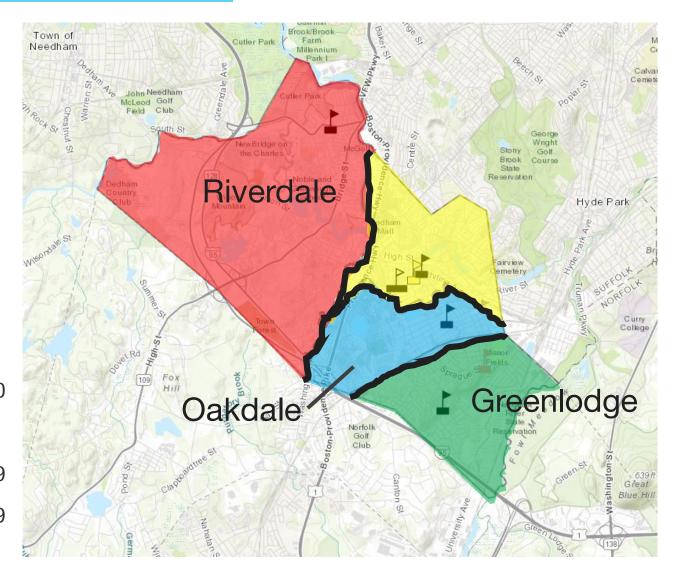
 River 	dale	230
---------------------------	------	-----

- Avery (No Change) 345
- Oakdale 345
- Greenlodge <u>345</u>

1,265

Approximate SF Requirement

- Riverdale 41,400
- Avery (No Change)
- Oakdale 60,289
- Greenlodge 60,289



District Option 2

Two New or Renovated Schools, New District Lines

All schools Grades 1-5

Estimated Enrollment

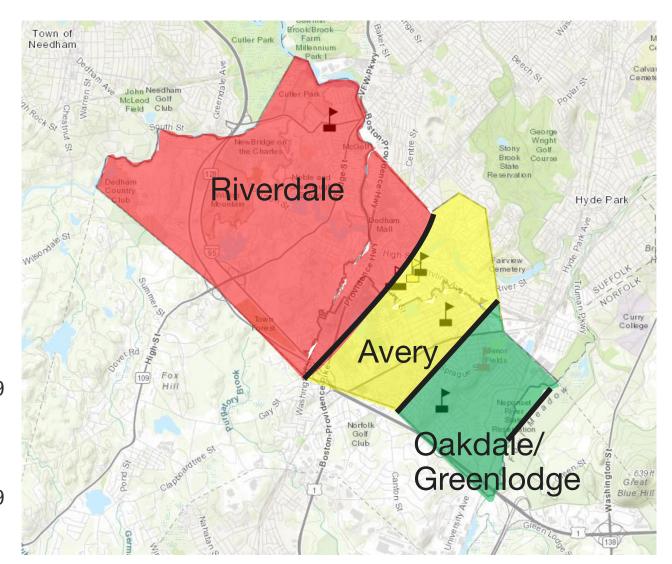
•	Riverdale	345
---	-----------	-----

- Avery (No Change) 345
- Oakdale/ Greenlodge <u>345</u>

1,035

Approximate SF Requirement

- Riverdale 60,289
- Avery (No Change)
- Oakdale/ Greenlodge 60,289



District Option 3

One New School, New District Lines

All schools Grades 1-5

Estimated Enrollment

Riverdale/Oakdale/Greenlodge 685

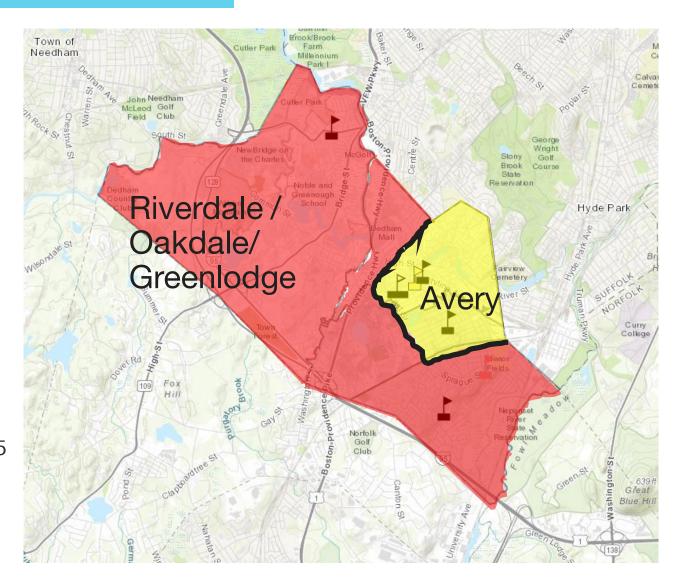
Avery (No Change) <u>345</u>

1,030

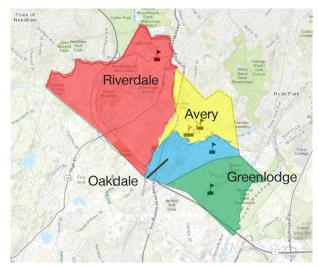
Approximate SF Requirement

Riverdale/ Oakdale/ Greenlodge 99,325

Avery (No Change)



Summary of Options



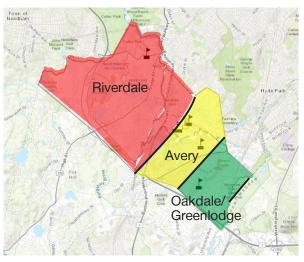
Option 1

Four Elementary Schools

Approximate SF Requirement

- New Riverdale 41,400
- Avery (No Change)
- New Oakdale 60,289
- New Greenlodge 60,289

Total 161,978



Option 2

Three Elementary Schools

Approximate SF Requirement

- New Riverdale 60,289
- Avery (No Change)
- New Oakdale/Greenlodge 60,289

Total 117,423



Option 3

Two Elementary Schools

Approximate SF Requirement

- New Riverdale/Oakdale/Greenlodge 99,325
- Avery (No Change)

Total 99,325

Manor Fields Proposal



Elements of Facility Assessment

ARCHITECTURE

Building Envelope

Roof & Wall Conditions

Windows & Doors

Percentage Glazing

Structural Systems

Accessibility

Security

Passive

Active

Egress

CIVIL

Site Analysis

Circulation

Drop Off/Pick Up

Drainage & Utilities

Athletic Fields

ELECTRICAL

Lighting and Systems

Daylight Controls

Occupancy Controls

Energy Efficiency

HVAC / PLUMBING

Building Systems

Indoor Air Quality

Energy Recovery

HVAC and Ventilation

Energy Systems

Fire Safety

The Changing Face of Education

- Technology
- Blended Learning
- Differentiated / Personalized Learning
- Project Base / Problem Based Learning
- Increasing Special Needs

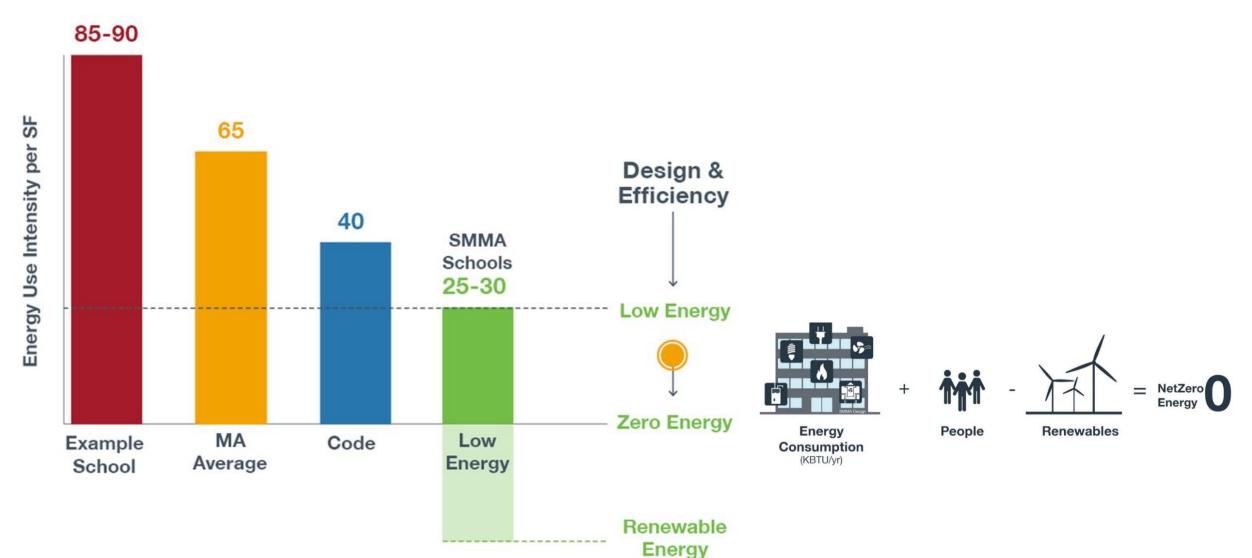
- Increasing English Learners (EL's)
- STEM / STEAM / STREAM
- New Generation Science Standards
- Flipping the Classroom
- School Safety and Security







Path to a Zero Energy School



Option 3

New grade structure 2 new/reno buildings

New Riverdale/ (Avery) 1-3300

New (Avery)/Oakdale/Greenlodge 1-3 300

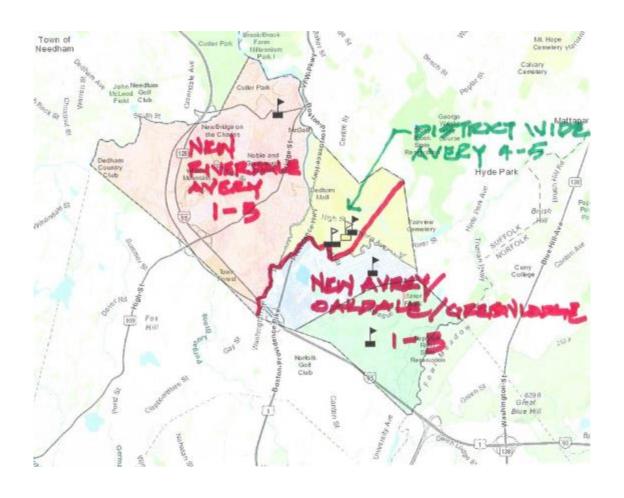
Avery 4-5 (too small) <u>410</u>

1,010

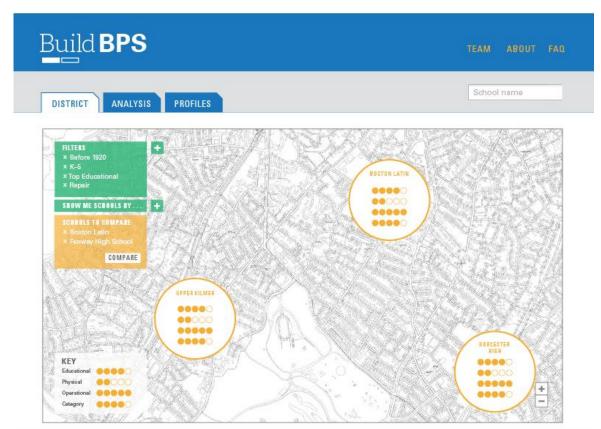


District Option – 3

Two New or Renovated Schools, Grade Re-alignment, New District Lines



Boston Public Schools District-Wide Master Plan

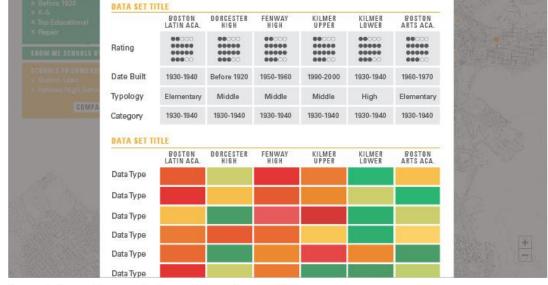


Zoomed with rating bubbles. Key only appears at zoom levels that bubbles appear.

If the map is in a contained box, where will the key end up if the filter and compare list are long?

DISTRICT 3a





Compare tool pop-up. How many data types will we need to account for? Will hovering over reveal actual data for that square and school?

DISTRICT 4c

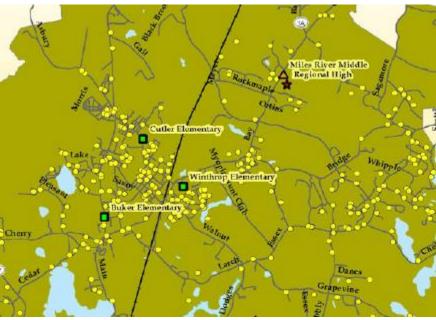
Lexington Public Schools District-Wide Master Plan



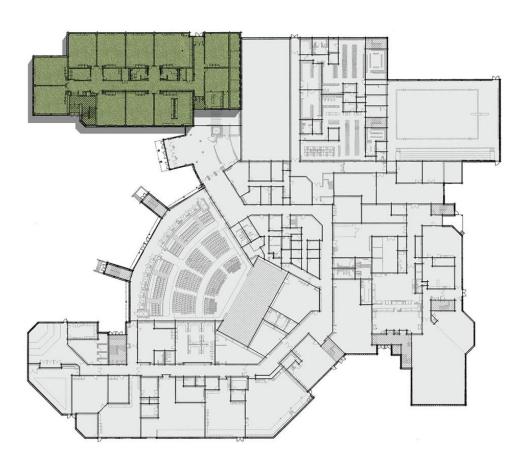


Hamilton-Wenham Public Schools District-Wide Master Plan





Sandwich Public Schools District-Wide Master Plan



Final Decision

- Closure of one K-8 School
- Consolidation of K-6 into two schools
- New 7/8 STEM Academy at the previously underutilized High School

Resulting Educational Benefit

- Grades 7 & 8 have access to more sophisticated High School spaces
- Significant additions to curriculum offerings
- Change to Project Based Learning (PBL)
- Small investments to accomplish transformations

Addition / Renovation: Ayer Shirley Regional High School









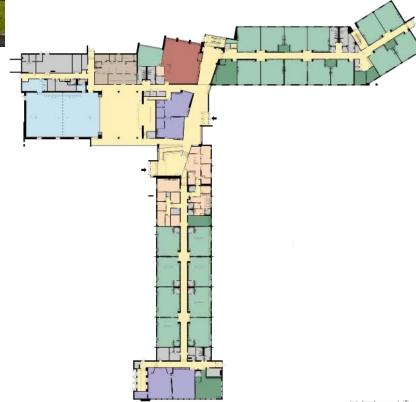
Addition / Renovation: The Center School, Stow









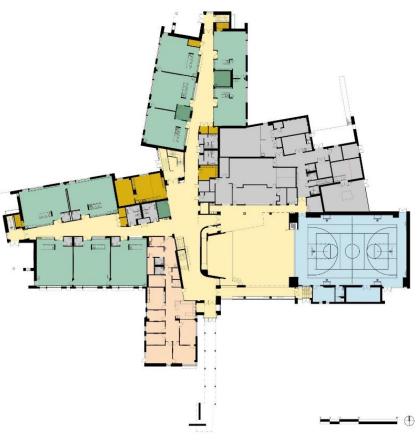


New Construction: Bancroft Elementary School, Andover







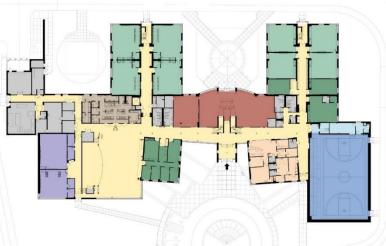


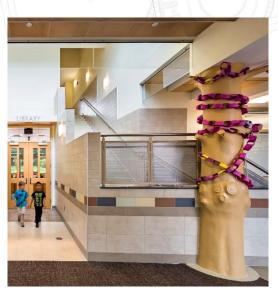
New Construction: Parker Elementary School, Billerica











Sustainable Design



WELLESLEY HIGH SCHOOL













Capen-Curran



Quick Facts

- Built in 1931
- Additions in 1970
- 250 Students (PreK-K)
- Historic Status none
- Modest Site Size (4-5 acres)
- Classrooms are undersized
- Traditional Layout



Proposed Space Summary- Elementary Schools

CORE ACADEMIC SPACES (List classrooms of different sizes separately) Pre-Kindergarten w tollet Kindergarten kome SPECIAL EDUCATION (List rooms of different sizes separately) Self-Contained SPED Self-Contained SP	ROOM TYPE REAL STATES AND STATES	MS area total
ALT A STATE OF THE PROPERTY OF	List classrooms of different sizes separately) Pre-Kindergarten wf toilet Kindergarten wf toilet (1-5 ONLY) General Classrooms - Grade 1-6 (1-5 ONLY) General Classrooms - Grade 1-6 (1-5 ONLY) General Classrooms - Grade 3-6 STE Storage SPECIAL EDUCATION (List rooms of different sizes separately) Self-Contained SPED Self-Contained SPED Self-Contained SPED Self-Contained SPED Self-Contained SPED Art Classroom / Reading ART & MUSIC Art Classroom / Storage & kiln Music Classroom / Large Group - 25-50 seats Music Practice / Ensemble HEALTH & PHYSICAL EDUCATION Gymnasium Gym Storeroom Health Instructor's Office wf Shower & Toile MEDIA CENTER Media Center / Reading Room DINING & FOOD SERVICE Cafetena / Dining Stage Chair / Table / Equipment Storage Kitchen Staff Lunch Room MEDICAL Medical Suite Toilet Nurses' Office / Waiting Room / Toilet Teachers' Mail and Time Room Duplicating Room Records Room Residence Room Guidance Storeroom Guidance Office Supervisory / Spare Office Supervisory / Spare Office Custodian's Workshop	
ALT A STATE OF THE PROPERTY OF	List classrooms of different sizes separately	
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STE Storage SPECIAL EDUCATION (List rooms of different sizes separately) Self-Contained SPED - Sole Self-Contained SPED - Sole Self-Contained SPED - Sole Self-Contained SPED - Sole Resource Room Small Group Room / Reading STE & MUSIC Art Classroom - 25 seats Art Unkiscom / Large Group - 25-50 seats Music Classroom / Large Group - 25-50 seats Music Practice / Ensemble IEALTH & PHYSICAL EDUCATION Gyrnasium Metalth Instructor's Office w/ Shower & Tolle IEALTH & PHYSICAL EDUCATION Gyrnasium Gyrnasium Metalth Instructor's Office w/ Shower & Tolle IEALTH & PHYSICAL EDUCATION Gyrnasium Gyrnasium Metalth Instructor's Office w/ Shower & Tolle IEALTH & PHYSICAL EDUCATION Gyrnasium Metalth Instructor's Office w/ Shower & Tolle IEALTH & PHYSICAL EDUCATION Metalth Instructor's Office w/ Shower & Tolle IEALTH & PHYSICAL EDUCATION Metalth Instructor's Office w/ Shower & Tolle IEALTH & PHYSICAL EDUCATION Metalth Instructor's Office w/ Shower & Tolle IEALTH & PHYSICAL EDUCATION Metalth Instructor's Office w/ Shower & Tolle IEALTH & PHYSICAL EDUCATION Metalth Instructor's Office w/ Shower & Tolle IEALTH & PHYSICAL EDUCATION Metalth Instructor's Office w/ Shower & Tolle IEALTH & PHYSICAL EDUCATION Metalth Instructor's Office w/ Shower & Tolle IEALTH & PHYSICAL EDUCATION Metalth Instructor's Office w/ Conference Area Principal's Office w/	STE Storage SPECIAL EDUCATION (List roms of different sizes separately) Self-Contained SPED Art Classroom / Reading Art Self-Contained SPED Art Workroom wi Storage & kiln Music Classroom / Large Group - 25-50 seats Music Classroom / Large Group - 25-50 seats Music Practice / Ensemble Self-Contained Self-Contained Gym Storeroom Health Instructor's Office w/ Shower & Toile Self-La Center / Reading Room Sining & FOOD SERVICE Cafeteria / Dining Stage Chair / Table / Equipment Storage Kitchen Staff Lunch Room Staff Lunch Room Medical Suite Toile! Nurses' Office / Waiting Room Examination Room / Resting Sommitted Self-Contained Self-Contained Room Duplicating Room Records Room Records Room Records Room Principal's Office w/ Conference Area Principal's Office of Supervisory / Spate Office Coustodian's Office Custodian's Workshop SUSTODIAL & MAINTENANCE Custodian's Workshop	
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Custodian's Workshop Custodian's Storage Recycling Room / Trash Receiving and General Supply Storeroom Network / Telecom Room There Other (specify) Total Building Net Floor Area (NFA) Proposed Student Capacity / Enrollment Storeroom Network / Telecom Room Network /	Custodian's Workshop	
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Recycling Room / Trash Receiving and General Supply Storeroom Network / Telecom Room DTHER Other (specify) Total Building Net Floor Area (NFA) Proposed Student Capacity / Enrollment ION-PROGRAMMED SPACES Other Occupied Rooms (list separately) Unoccupied MEP/FP Spaces Unoccupied MEP/FP Spaces Unoccupied Rooms Circulation (corridors, stairs, ramps & elevators) Remaining ³ Total Building Gross Floor Area (GFA) ²	Custoulai i S Stotatie	-
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Other Occupied Rooms (list separately) Unoccupied MEP/FP Spaces Unoccupied Closets, Supply Rooms & Storage Rooms Toilet Rooms Circulation (corridors, stairs, ramps & elevators) Remaining ³ Total Building Gross Floor Area (GFA) ²	Proposed Student Capacity / Enrollment	+
Other Occupied Rooms (list separately) Unoccupied MEP/FP Spaces Unoccupied Closets, Supply Rooms & Storage Rooms Toilet Rooms Circulation (corridors, stairs, ramps & elevators) Remaining ³ Total Building Gross Floor Area (GFA) ²		
Other Occupied Rooms (list separately) Unoccupied MEP/FP Spaces Unoccupied Closets, Supply Rooms & Storage Rooms Toilet Rooms Circulation (corridors, stairs, ramps & elevators) Remaining ³ Total Building Gross Floor Area (GFA) ²	ION-PROGRAMMED SPACES	
Unoccupied MEP/FP Spaces Unoccupied Closets, Supply Rooms & Storage Rooms Toilet Rooms Circulation (corridors, stairs, ramps & elevators) Remaining ² Total Building Gross Floor Area (GFA) ²		
Unoccupied Closets, Supply Rooms & Storage Rooms Toilet Rooms Circulation (corridors, stairs, ramps & elevators) Remaining ² Total Building Gross Floor Area (GFA) ²	Care Cocapica (norma (nar acparately)	
Unoccupied Closets, Supply Rooms & Storage Rooms Toilet Rooms Circulation (corridors, stairs, ramps & elevators) Remaining ² Total Building Gross Floor Area (GFA) ²		
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Circulation (corridors, stairs, ramps & elevators) Remaining ³ Total Building Gross Floor Area (GFA) ²	Unoccupied Closets, Supply Rooms & Storage Rooms	
Remaining ³ Total Building Gross Floor Area (GFA) ²	Toilet Rooms	
Total Building Gross Floor Area (GFA) ²		
	Remaining ³	
	2	
Grossing factor (GFA/NFA) #DIV/0!	Total Building Gross Floor Area (GFA) ^c	
	Grossing factor (GFA/NFA)	

(refer	to MSBA Ed		uidelines ram & Space Standard Guidelines)
ROOM NFA ¹	# OF RMS	area totals	Comments
	12	11,200	
		,	
1,200			1,100 SF min - 1,300 SF max
1,200	2	2,400	1,100 SF min - 1,300 SF max; 2 sinks min. req
950	8	7,600	900 SF min - 1,000 SF max; 2 sinks min. req
1,080	1	1,080	Refer to STE Guidelines for Ad
120	1	120	Refer to STE Guidelines for Ad
		3,020	
950	2	1,900	000 4 000 05
60	2	120	900-1,300 SF equal to surrounding classrooms
500	1	500	1/2 size Genl. Clrm.
500	1	500	1/2 size Genl. Clrm.
1.000		2,500	
1,000 150	1	1,000 150	assumed schedule 2 times / week / student
1,200	1	1,200	assumed schedule 2 times / week / student
75	2	150	
		6,300	Excess PE Spaces Policy
6,000	1	6,000	6000 SF Min. Size
150	1	150	
150	1	150	
		0.00-	
2.020	1	2,020	
2,020	- '	2,020	
		4,725	
1,725	1	1,725	2 seatings - 15SF per seat
1,000	1	1,000	
1,600	1 1	200 1.600	1600 SF for first 300 + 1 SF/student Add'l
200	1	200	20 SF/Occupant
200		200	20 St /Occupant
		410	
60	1	60	
250	1	250	
100	1	100	
		2.045	
300	1	2,015 300	
100	i	100	
150	1	150	
110	1	110	
375 125	1 1	375 125	
120	Ö	-	
120	1	120	
250 150	1 1	250 150	
35	1	35	
300	1	300	
		1,900	
150	1	150	
375 375	1 1	375 375	
400	1	400	
200	1	200	
200	1	200	
200	1	200	
		0	
		U	
		0/ ***	
		34,090	
		230	Enter grade enrollments below
		92	Lower Elementary; Grades K-2
	+	138	Upper Elementary; Grades 3-6
			Non-Programmed space areas are
			required to be included in the
			following submittals:
			Schematic Design Submittal
			Design Development Submittal
			60% Construction Documents
	+ +		
	 		90% Construction Documents
			Final Construction Documents
	-		
		41,400	51,135 gsf at 1.5 multiplier

							Date	Enter Data	Enter Submittal
Three Section School	Ex	isting Cond	ditions			(rofor			Enter Submittal
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals			ROOM NFA ¹	# OF RMS	area totals	ram & Space Standard Guidelines) Comments
	NFA					NFA			
PRE ACADEMIC SPACES (List classrooms of different sizes separately)			0				18	17,150	
Pre-Kindergarten w/ toilet Kindergarten w/ toilet(1-5 ONLY)						1,200 1,200	3	3,600	1,100 SF min - 1,300 SF max 1,100 SF min - 1,300 SF max; 2 sinks min. req
General Classrooms - Grade 1-6(1-5 ONLY) STE Room- Grade 3-6						950 1,080	13 1	12,350 1,080	900 SF min - 1,000 SF max; 2 sinks min. req Refer to STE Guidelines for Ad
STE Storage						120	1	120	Refer to STE Guidelines for Ad
PECIAL EDUCATION			0					4,530	
(List rooms of different sizes separately)							_		
Self-Contained SPED - toile						950 60	3	2,850 180	900-1,300 SF equal to surrounding classrooms
Resource Room Small Group Room / Reading						500 500	1	1,000 500	1/2 size Genl. Clrm. 1/2 size Genl. Clrm.
RT & MUSIC			0					2,500	
Art Classroom - 25 seats			·			1,000	1	1,000	assumed schedule 2 times / week / student
Art Workroom w/ Storage & kiln Music Classroom / Large Group - 25-50 seats						150 1,200	1	150 1,200	assumed schedule 2 times / week / student
Music Practice / Ensemble						75	2	150	
EALTH & PHYSICAL EDUCATION			0					6,300	Excess PE Spaces Policy
Gymnasium Gym Storeroom						6,000 150	1	6,000 150	6000 SF Min. Size
Health Instructor's Office w/ Shower & Toile						150	1	150	
EDIA CENTER			0					2,223	
Media Center / Reading Roon						2,223	1	2,223	
NING & FOOD SERVICE			0					5,747	
Cafeteria / Dining Stage						2,588 1,000	1	2,588 1,000	2 seatings - 15SF per seat
Chair / Table / Equipment Storage Kitchen						315 1,645	1	315 1,645	1600 SF for first 300 + 1 SF/student Add'l
Staff Lunch Room						200	1	200	
EDICAL			0					510	
Medical Suite Toile Nurses' Office / Waiting Room						60 250	1	60 250	
Examination Room / Resting						100	2	200	
DMINISTRATION & GUIDANCE			0					2,060	
General Office / Waiting Room / Toile Teachers' Mail and Time Roon						323 100	1	323 100	
Duplicating Room Records Room						150 110	1	150 110	
Principal's Office w/ Conference Area						375	1	375	
Principal's Secretary / Waiting Assistant Principal's Office						125 120	0	125	
Supervisory / Spare Office Conference Room						120 250	1	120 250	
Guidance Office Guidance Storeroom						150 35	1	150 35	
Teachers' Work Room						323	1	323	
USTODIAL & MAINTENANCE			0					1,945	
Custodian's Office Custodian's Workshop						150 375	1	150 375	
Custodian's Storage Recycling Room / Trash						375 400	1	375 400	
Receiving and General Suppl						215	1	215	
Storeroom Network / Telecom Room						230 200	1	230 200	
THER			0					0	
Other (specify)			·						
Total Building Net Floor Area (NFA			0					42,965	
Proposed Student Capacity / Enrollmen								345 138	Enter grade enrollments belov Lower Elementary; Grades K-2
								207	
ON-PROGRAMMED SPACES					-				
Other Occupied Rooms (list separately)									Non-Programmed space areas are
									required to be included in the
									following submittals: Schematic Design Submittal
Unoccupied MEP/FP Spaces									Design Development Submittal
Unoccupied Closets, Supply Rooms & Storage Roo Toilet Rooms	oms								60% Construction Documents 90% Construction Documents
Circulation (corridors, stairs, ramps & elevators)									Final Construction Documents
Remaining ³									
Total Building Cross Floor Array (CEA ²			0		-			00.000	C4 449 and at 4 E m!4:!!
Total Building Gross Floor Area (GFA)			-						64,448 gsf at 1.5 multiplier
Grossing factor (GFA/NFA)	<u> </u>		#DIV/0!			<u> </u>		1.40	
Individual Room Net Floor Area (NFA)	Includes the	net square	footage measur	ed from t	he inside	face of the p	erimeter wa	alls and includes	I all specific spaces assigned to a particu
Total Building Cross Floor Acc (CCA)									
Total Building Gross Floor Area (GFA)	includes the	enure build	ing gross square	ootage	measure	ou from the of	uside face (of exterior walls	
Remaining	Includes exte	erior walls. i	nterior partitions	, chases	, and oth	er areas not l	isted above	. Do not calculat	I e this area, it is assumed to equal the d
Architect Certification		,.							
ALCHIEGE COLUMNATION									 lete and accurate and, except as agree
	writing by the	Massachu	setts School Bu	ilding Au	thority, in	accordance	with the gui	delines, rules, re	gulations and policies of the Massachus
		ı	Name of Archite	ect Firm:					
	l	Name	e of Principal A	rchitect					
			e of Principal A						

Proposed Space Summary- Elementary Schools

ROOM TYPE ROOM NFA FORMS area totals CORE ACADEMIC SPACES (List classrooms of different sizes separately) Pre-Kindergarden w toilet Kindergarten Kindersen	Four Section School	Ex	Existing Conditions			
Like Classrooms of different sizes separately)	ROOM TYPE		# OF RMS	area totals		
Pre-Kindergarten w tolet Kindergarten w tolet General Classrooms - Grade 1-6 (1-5 ONLY) General Classrooms - Grade 1-6 (1-5 ONLY) STE Room - Grade 3-6 STE Storage SPECIAL EDUCATION SPECIAL EDUCATION SIFICONTINEN SAIF Contained SPED SAIF SAIF SAIF SAIF SAIF SAIF SAIF SAIF	CORE ACADEMIC SPACES			0		
Kindergarten wi Vollet (1-5 ONLY) STE Room- Grade 3-6 STE Storage SPECIAL EDUCATION (List rooms of different sizes separately) Self-Contained SPED - Loilet Resource Room Small Group Room / Reading ART & MUSIC ART Gambined SPED - Loilet Resource Room Small Group Room / Reading ART Gastroom - 25 seats Art Workroom wi Stronge & kim Music Classroom - Large Group - 25-50 seats Music Practice / Ensemble HEALTH & PHYSICAL EDUCATION Cymnasium Cymn Storenom Health instructor's Office wi Shower & Toile HEALTH & PHYSICAL EDUCATION Cymnasium Cymn Storenom Health instructor's Office wi Shower & Toile MEDIA CENTER Media Center / Reading Room DINING & FOOD SERVICE Caleteria / Dining Stage Charl / Table / Equipment Storage Kitchen Staft Lunch Room MEDICAL MED						
General Classrooms - Grade 1-8 (1-5 ONLY) STE Room- Grade 3-8 STE Storage SPECIAL EDUCATION (Liter come of different sizes separately) Self-Contained SPED - Self-Contained Sel	Pre-Kindergarten w/ toilet					
STE Rom- Grade 3-6 STE Storage SPECIAL EDUCATION (Litt rooms of different sizes separately) Self-Contained SPED - toilel Resource Room Small Group Room / Reading ART & MUSIC Art Classroom - 25 seats Art Workroom will Storage & kiln Music Classroom / Large Group - 25-50 seats Music Practice / Ensemble HEALTH & PHYSICAL EDUCATION Gymmastum Gym Storage of the Wilshower & Toile HEALTH & PHYSICAL EDUCATION Gymmastum Gym Storage of the Wilshower & Toile HEALTH & PHYSICAL EDUCATION Gymmastum Gym Storage of the Wilshower & Toile HEALTH & PHYSICAL EDUCATION HEALTH & PHYSICAL EDUCATION Gymmastum Gym Storage Gym Storage Media Center / Reading Room MEDICAL Media Center / Reading Room DINNUS & FOOD SERVICE Creteria / Dining Schiel / Table / Equipment Storage Kitchen Staff Lunch Room MEDICAL Medical State Toile! Nurses' Office / Walting Room Examination Room / Resting Administration & Guidance General Office / Walting Room Examination Room / Resting Assistant Principal's Office Supervisory / Spare Office Guidance Storeroom Principal's Soffice Guidance Storeroom Principal's Grifice Principal's		1				
SPECIAL EDUCATION (List rooms of different sizes separately) Self-Contained SPED Self-						
(List rooms of different sizes separately) Self-Contained SPED S						
(List rooms of different sizes separately) Self-Contained SPED S	SPECIAL EDUCATION			C		
Self-Contained SPED : oliel Resource Room Small Group Room / Reading ART & MUSIC ART & MUSIC ART Classroom - 25 seats Art Workroom wr Storage & kiln Music Classroom / Large Group - 25-50 seats Music Classroom / Large Group - 25-50 seats Music Practice / Ensemble HEALTH & PHYSICAL EDUCATION Gymnasium Gym Storeroom Health Instructor's Office w/ Shower & Toile MEDIA CENTER Media Center / Reading Room DINING & FOOD SERVICE Cafeteria / Dining Slage Chair / Table / Equipment Storage Kitchen Slage Universe office / Walting Room Examination Room / Resting ADMINISTRATION & GUIDANCE General Office / Walting Room / Toilet Teachers' Mail and Time Room Duplicating Room Records Room Guidance Office Custodian's Vork Room Trash Receiving and General Surph Storage Receiving and General Supph Storeroom Network / Telecom Room DUSTODIAL & MAINTENANCE Custodian's Workshop Custodian's Workshop Custodian's Workshop Custodian's Workshop Custodian's Storage Receiving and General Supph Storeroom Network / Telecom Room DOTHER Other (specify) Total Building Net Floor Area (NFA) Proposed Student Capacity / Enrollment NON-PROGRAMMED SPACES Other Occupied MEP/FP Spaces Unnoccupied Closets, Supply Rooms & Storage Rooms Total Building Gross Floor Area (NFA) Proposed Student Capacity / Enrollment Total Building Gross Floor Area (SFA) Total Building Gross Floor Area (GFA) Total Building Gross Floor Area (GFA) Total Building Gross Floor Area (GFA)	(List rooms of different sizes separately)					
Resource Room Small Group Room / Reading ART & MUSIC Art Classroom - 25 seats Art Workroom w Storage & kin Music Classroom / Large Group - 25-50 seats Music Practice / Ensemble HEALTH & PHYSICAL EDUCATION Gymasium Gym Storeroom Health Instructor's Office w/ Shower & Toile MEDIA CENTER Media Center / Reading Room DINING & FOOD SERVICE Caleteria / Dining Stage Ohair / Table / Equipment Storage Kitchen Staff Lunch Room MEDICAL Medical Suite Toilet Nurses' Office / Waiting Room Examination Room / Resting ADMINISTRATION & GUIDANCE General Office / Waiting Room Examination Room / Resting ADMINISTRATION & GUIDANCE General Office / Waiting Room Duplicating Room Principal's Groom on Duplicating Room Principal's Storage Custodian's Storage Guidance Storeroom Teachers' Work Room OCUSTODIAL & MAINTENANCE Custodian's Workshop Custodian's Storage Recycling Room / Trash Receiving and General Supply Storeroom Non-Proopsed Student Capacity / Enrollment Non-Proopsed Student Capacity / Enrollment Unoccupied MEP/FP Spaces Unoccupied Rooms (sist separately) Total Building Gross Floor Area (GFA)						
Sanal Group Room / Reading ART & MUSIC Art Classroom - 25 seats Art Classroom - 25 seats Art Workroom w Storage & kidn Music Classroom / Large Group - 25-50 seats Music Practice / Ensemble HEALTH & PHYSICAL EDUCATION Gym storeroom Health Instructor's Office w/ Shower & Toile WEDIA CENTER MEDIA CENTER MEDIA CENTER MEDIA CENTER DINING & FOOD SERVICE Cateleria / Dining Slage Chair / Table / Equipment Storage Kitchen Slaft Lunch Room MEDICAL Medical Suite Toilel Murses' Office / Waiting Room Examination Room / Resting ADMINISTRATION & GUIDANCE General Office / Waiting Room / Toilet Teachers' Mail and Time Room Duplicating Room Records Room Records Room Records Room Records Room Records Room Guidance Office Custodian's Office Custodian's Office Custodian's Office Custodian's Storage Receiving and General Suph) Storeroom Network / Telecom Room DOTHER Other Occupied Reprise Sairs, ramps & elevators) Remaining' Total Building Gross Floor Area (GFA)						
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Art Classroom - 25 seats Art Workroom w Storage & kiln Music Classroom / Large Group - 25-50 seats Music Practice / Ensemble HEALTH & PHYSICAL EDUCATION Gymnasium Gym Storeroom Health Instructor's Office w/ Shower & Toile MEDIA CENTER Media Center / Reading Room DINING & FOOD SERVICE Cafeteria / Dining Stage Chair / Table / Equipment Storage Kitchen Staff Lunch Room Staff Lunch Room MEDICAL Medical Suite Toile! Muses' Office / Waiting Room Examination Room / Resting Camination Room / Resting Duplicating Room Examination Room / Resting Duplicating Room Parincipal's Office w/ Conference Area Principal's Office Supervisory / Spare Office Conference Room Guidance Office Supervisory / Spare Office Conference Room Guidance Office Guidance Office Guidance Office Guidance Office Custodian's Workshop Custodian's	2					
Art Workroom w Storage & Kinin Music Classroom / Large Group - 25-50 seats Music Practice / Ensemble				0		
Music Classroom / Large Group - 25-50 seats Music Practice / Ensemble MEALTH & PHYSICAL EDUCATION Gymasium Gym Storeroom Health Instructor's Office w/ Shower & Toile MEDIA CENTER Media Center / Reading Room DINING & FOOD SERVICE Carletera / Dining Stage Chair / Table / Equipment Storage Kitchen Staff Lunch Room MEDICAL Medical Suite Toilet Nurses' Office / Walting Room Examination Room / Resting ADMINISTATION & GUIDANCE General Office / Walting Room / Toilet Teachers' Mail and Time Room Duplicating Room Records Room Records Room Records Room Guidance Office Supervisory / Spare Office Conference Room Guidance Office Guidance Office Guidance Office Custodian's Office Custodian's Office Custodian's Vorkshop Custodian's Vorkshop Custodian's Vorkshop Custodian's Vorkshop Custodian's Storage Recycling Room / Trash Receiving and General Supply Storeroom Network / Telecom Room Cital Building Net Floor Area (NFA) Total Building Net Floor Area (NFA) Proposed Student Capacity / Enrollment NON-PROGRAMMED SPACES Other Occupied Rooms (list separately) Total Building Gross Floor Area (GFA)						
Music Practice / Ensemble HEALTH & PHYSICAL EDUCATION						
Gymasium Gym Storeroom Health Instructor's Office w/ Shower & Toile MEDIA CENTER Media Center / Reading Room DINING & FOOD SERVICE Cafetena / Dining Stage Chair / Table / Equipment Storage Kitchen Staff Lunch Room MEDICAL Medical Suite Toilet Nurses' Office / Waiting Room Examination Room / Toilet Texamination Room Records Room Records Room Records Room Records Room Guidance Office w/ Conference Area Principal's Office w/ Conference Area Principal's Office Room Guidance Office Guidance Office Guidance Office Guidance Office Guidance Office Custodian's Office Custodian's Office Custodian's Office Custodian's Office Custodian's Workshop Guidance Office Guidance Storage Texamination Receiving and General Supply Storeroom Network / Telecom Room Network / Telecom Room Network / Telecom Room Non-PROGRAMMED SPACES Other Occupied Rooms (list separately) Unoccupied MEP/FP Spaces Unoccupied Closets, Supply Rooms & Storage Rooms Toilet Rooms Circulation (corridors, stairs, ramps & elevators) Remaining's Remai	Music Practice / Ensemble					
Gymnsium Gym Storeroom Health Instructor's Office w/ Shower & Toile MEDIA CENTER Media Center / Reading Room MEDIA CONTER Media Center / Reading Room DINING & FOOD SERVICE Cafetera / Dining Stage Cafetera / Dining Stage Cafetera / Dining Stage Kitchen Staff Lunch Room MEDICAL Medical Suite Toile! Nurses' Office / Waiting Room Examination Room / Resting ADMINISTRATION & GUIDANCE General Office / Waiting Room / Toile! Teachers' Mail and Time Room Duplicating Room Records Room Principal's Office w/ Conference Area Principal's Office w/ Conference Area Principal's Office w/ Sectary / Waiting Supervisory / Spare Office Custodians' Principal's Office Supervisory / Spare Office Custodians' Storage Recycling Room Teachers' Work Room CUSTODIAL & MAINTENANCE Custodian's Workshop Custodian's Workshop Custodian's Workshop Custodian's Workshop Custodian's Workshop Custodian's Storage Recycling Room / Trash Receiving and General Supply Storeroom Network / Telecom Room Network / Telecom Room OTHER Other (specify) Unoccupied Rooms (list separately) Unoccupied Glosets, Supply Rooms & Storage Rooms Toilet Rooms Circulation (corridors, stairs, ramps & elevators) Remaining's Remaining'						
Gymnsium Gym Storeroom Health Instructor's Office w/ Shower & Toile MEDIA CENTER Media Center / Reading Room MEDIA GYMNS FOOD SERVICE Cafetera / Dining Stage Cafetera / Dining Stage Chair / Table / Equipment Storage Kitchen Staff Lunch Room MEDICAL Medical Suite Toile! Nurses' Office / Waiting Room Examination Room / Resting ADMINISTRATION & GUIDANCE General Office / Waiting Room / Toile! Teachers' Mail and Time Room Duplicating Room Records Room Principal's Geretary / Waiting Records Room Principal's Geretary / Waiting Assistant Principal's Office Supervisory / Spare Office Conference Room Guidance Office Guidance Storeoom Teachers' Work Room CUSTODIAL & MAINTENANCE Custodian's Workshop Custodian's Workshop Custodian's Office Custodian's Workshop Custodian's Storage Receiving and General Supply Storeoom Network / Telecom Room Network / Telecom Room Network / Telecom Room Non-Proposed Student Capacity / Errollment WON-PROGRAMMED SPACES Other Occupied Rooms (list separately) Unoccupied MEP/FP Spaces Unoccupied Glosets, Supply Rooms & Storage Rooms Toilet Rooms Circulation (corridors, stairs, ramps & elevators) Remaining' Remaining' Total Building Gross Floor Area (GFA)	HEALTH & PHYSICAL EDUCATION			0		
Health Instructor's Office w/ Shower & Toile MEDIA CENTER Media Center/ Reading Room DINING & FOOD SERVICE Cafeteria 7 Dining Stage Chair / Table / Equipment Storage Kitchen Staff Lunch Room MEDICAL Medical Suite Toilet Nurses' Office / Waiting Room Examination Room / Resting ADMINISTRATION & GUIDANCE General Office / Waiting Room / Toilet Teacher's Mail and Time Room Duplicating Room Principal's Office of Visiting Room Principal's Office of Visiting Room Principal's Office of Visiting Room Duplicating Room Principal's Office of Visiting Room Principal's Of	Gymnasium					
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Other (specify) Total Building Net Floor Area (NFA) Proposed Student Capacity / Enrollment NON-PROGRAMMED SPACES Other Occupied Rooms (list separately) Unoccupied MEP/FP Spaces Unoccupied Closets, Supply Rooms & Storage Rooms Toiler Rooms Circulation (corridors, stairs, ramps & elevators) Remaining³ Total Building Gross Floor Area (GFAf	OTHER			0		
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NON-PROGRAMMED SPACES Other Occupied Rooms (list separately) Unoccupied MEP/FP Spaces Unoccupied Closets, Supply Rooms & Storage Rooms Tollet Rooms Circulation (corridors, stairs, ramps & elevators) Remaining ³ Total Building Gross Floor Area (GFA) ²	177.77	<u> </u>				
NON-PROGRAMMED SPACES Other Occupied Rooms (list separately) Unoccupied MEP/FP Spaces Unoccupied Closets, Supply Rooms & Storage Rooms Tollet Rooms Circulation (corridors, stairs, ramps & elevators) Remaining ³ Total Building Gross Floor Area (GFA) ²	Tata Dallalla a Nat Flora a Carrio			_		
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Unoccupied Rooms (list separately) Unoccupied MEP/FP Spaces Unoccupied Closets, Supply Rooms & Storage Rooms Toilet Rooms Circulation (corridors, stairs, ramps & elevators) Remaining ³ Total Building Gross Floor Area (GFA) ²	,,					
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Circulation (corridors, stairs, ramps & elevators) Remaining ³ Total Building Gross Floor Area (GFA) ²	Unoccupied Closets, Supply Rooms & Storage Ro	ms				
Remaining ³ Total Building Gross Floor Area (GFA) ²	Toilet Rooms					
Total Building Gross Floor Area (GFA) ²						
Total Building Gross Floor Area (GFA) ²	Remaining ³					
	Total Building Gross Floor Area (GFA) ²					
Grossing factor (GFA/NFA) #DIV/0!						
	Grossing factor (GFA/NFA)			#DIV/0!		

(refer	to MSBA Ed		uidelines am & Space Standard Guidelines)
ROOM NFA ¹	# OF RMS	area totals	Comments
	23	21,900	
1,200		-	1,100 SF min - 1,300 SF max
1,200	3	3,600	1,100 SF min - 1,300 SF max; 2 sinks min. req
950	18	17,100	900 SF min - 1,000 SF max; 2 sinks min. req
1,080	1	1,080	Refer to STE Guidelines for Ad
120	1	120	Refer to STE Guidelines for Ad
		5,540	
950	4	3,800	900-1,300 SF equal to surrounding classrooms
60	4	240	
500	2	1,000	1/2 size Genl. Clrm.
500	1	500	1/2 size Genl. Clrm.
		2,575	
1,000	1	1,000	assumed schedule 2 times / week / student
150	1	150	
1,200	1	1,200	assumed schedule 2 times / week / student
75	3	225	
		6,300	Excess PE Spaces Policy
6,000	1	6,000	6000 SF Min. Size
150	1	150	
150	1	150	
		2 740	
2,740	1	2,740 2,740	
2,7 10		2,7 10	
		6,778	
3,450	1	3,450	2 seatings - 15SF per seat
1,000	1	1,000	
353	1	353	
1,760 215	1	1,760	
215	1	215	20 SF/Occupant
		510	
60	1	60	
250	1	250	
100	2	200	
380	1	2,325 380	
100	1	100	
150	1	150	
110	1	110	
375	1	375	
125 120	0	125	
120	1	120	
250	1	250	
150	2	300	
35 380	1	35 380	
300	'	380	
		2,060	
150	1	150	
375	1	375	
375	1	375	
400 253	1	400 253	
307	1	307	
200	1	200	
		0	
		50,728	
	-	Aco.	Enter grade enrollments below
		184	Lower Elementary; Grades K-2
			Upper Elementary; Grades 3-6
			Non-Programmed space areas are
			required to be included in the
			following submittals:
			Schematic Design Submittal
			Design Development Submittal
			60% Construction Documents
			90% Construction Documents
			90% Construction Documents Final Construction Documents
		74,213	

Proposed Space Summar	y- Elei	menta	ary Scho	ools					
,									
							Date:	Enter Date	Enter Submittal
Seven Section School	Exi	isting Con	ditions			(refer	to MSBA E		euidelines ram & Space Standard Guidelines)
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals			ROOM NFA ¹	# OF RMS	area totals	Comments
DRE ACADEMIC SPACES			0				37	35,950	
(List classrooms of different sizes separately) Pre-Kindergarten w/ toilet						1.200		_	1,100 SF min - 1,300 SF max
Kindergarten w/ toilet (1-5 ONLY) General Classrooms - Grade 1-6 (1-5 ONLY)						1,200 950	6 29	7,200 27,550	1,100 SF min - 1,300 SF max; 2 sinks min. req 900 SF min - 1,000 SF max; 2 sinks min. req
STE Room- Grade 3-6 STE Storage						1,080 120	1 1	1,080 120	Refer to STE Guidelines for Addit Refer to STE Guidelines for Addit
PECIAL EDUCATION			0					9,060	
(List rooms of different sizes separately) Self-Contained SPED						950	6	5,700	900-1,300 SF equal to surrounding classrooms
Self-Contained SPED - toile Resource Room						60 500	6	360 2,000	1/2 size Genl. Clrm.
Small Group Room / Reading						500	2	1,000	1/2 size Genl. Clim.
RT & MUSIC			0					5,075	
Art Classroom - 25 seats Art Workroom w/ Storage & kiln						1,000 150	2	2,000 300	assumed schedule 2 times / week / student
Music Classroom / Large Group - 25-50 seats Music Practice / Ensemble						1,200 75	2 5	2,400 375	assumed schedule 2 times / week / student
EALTH & PHYSICAL EDUCATION			0						Excess PE Spaces Policy
Gymnasium Gym Storeroom Health Instructor's Office w/ Shower & Toile						6,000 150 150	1 1 1	6,000 150 150	6000 SF Min. Size
EDIA CENTER			0					4,189	
Media Center / Reading Roon						4,189	1	4,189	
NING & FOOD SERVICE Cafeteria / Dining			0			5,865	1	9,703 5,865	2 seatings - 15SF per seat
Stage Chair / Table / Equipment Storage						1,000 461	1	1,000	E schunge - room per scur
Kitchen Staff Lunch Room						2,082 296	1 1	2,082 296	1600 SF for first 300 + 1 SF/student Add'1 20 SF/Occupant
EDICAL Medical Suite Toile			0			60	1	710	
Nurses' Office / Waiting Room Examination Room / Resting						250 100	1 4	250 400	
OMINISTRATION & GUIDANCE			0			544		2,917	
General Office / Waiting Room / Toile Teachers' Mail and Time Roon						541 100	1	541 100	
Duplicating Room Records Room						150 110	1	150 110	
Principal's Office w/ Conference Area Principal's Secretary / Waiting						375 125	1	375 125	
Assistant Principal's Office Supervisory / Spare Office						120 120	1	120 120	
Conference Room Guidance Office						250 150	3	250 450	
Guidance Storeroom Teachers' Work Room						35 541	1	35 541	
ISTODIAL & MAINTENANCE			0					2,382	
Custodian's Office Custodian's Workshop						150 375	1	150 375	
Custodian's Storage Recycling Room / Trast						375 400	1 1	375 400	
Receiving and General Suppli Storeroom						361 521	1	361 521	
Network / Telecom Room						200	1	200	
HER			0					0	
Other (specify)									
Total Building Net Floor Area (NFA			0	E				76,286	
Proposed Student Capacity / Enrollmen							Ĺ	782	Enter grade enrollments belov
								313	Lower Elementary; Grades K-2 Upper Elementary; Grades 3-6
N-PROGRAMMED SPACES									
Other Occupied Rooms (list separately)									Non-Programmed space areas are
					-	-			required to be included in the following submittals:
									Schematic Design Submittal
Unoccupied MEP/FP Spaces Unoccupied Closets, Supply Rooms & Storage Roor	ms					-			Design Development Submittal 60% Construction Documents
Toilet Rooms									90% Construction Documents
Circulation (corridors, stairs, ramps & elevators) Remaining									Final Construction Documents
Total Building Gross Floor Area (GFA)			0					113,390	114,429 at 1.5 multiplier
Grossing factor (GFA/NFA)			#DIV/0!					1.49	
+	Includes the	net square	footage measur	ed from t	he inside	face of the p	erimeter wa	alls and includes a	all specific spaces assigned to a particular
ndividual Room Net Floor Area (NFA)	IIICIUUCS IIIC			1				of outorior walls	
		entire build	ing gross square	e footage	measure	ea from the ou	Jiside lace (DI EXCELLOI WAIIS	
Total Building Gross Floor Area (GFA)	Includes the								e this area, it is assumed to equal the diffe
Total Building Gross Floor Area (GFA)	Includes the								e this area, it is assumed to equal the diffe
Total Building Gross Floor Area (GFA) Remaining Architect Certificatior	Includes the Includes external Includes external Includes external Includes external Includes the Includes th	erior walls, i	interior partitions	s, chases	, and oth	er areas not li	isted above	. Do not calculate	lete and accurate and, except as agreed
Total Building Gross Floor Area (GFA) Remaining Architect Certificatior	Includes the Includes external Includes external Includes external Includes external Includes the Includes th	erior walls, i	interior partitions f the information setts School Bu	s, chases n provide	, and oth	er areas not li	isted above	. Do not calculate	lete and accurate and, except as agreed
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Proposed Space Summary- Elementary Schools

Eight Section School	Ex	Existing Conditions			
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals		
CORE ACADEMIC SPACES					
(List classrooms of different sizes separately)					
Pre-Kindergarten w/ toilet					
Kindergarten w/ toilet (1-5 ONLY)					
General Classrooms - Grade 1-6 (1-5 ONLY) STE Room- Grade 3-6					
STE Storage					
SPECIAL EDUCATION					
(List rooms of different sizes separately)					
Self-Contained SPED					
Self-Contained SPED - toilel					
Resource Room Small Group Room / Reading					
Citiali Group (Contr) (Cauling					
ART & MUSIC					
Art Classroom - 25 seats					
Art Workroom w/ Storage & kiln					
Music Classroom / Large Group - 25-50 seats					
Music Practice / Ensemble					
IEALTH & DUVOICAL EDUCATION					
Gymnaeium					
Gymnasium Gym Storeroom	1	†			
Health Instructor's Office w/ Shower & Toile					
MEDIA CENTER					
Media Center / Reading Room					
DINING & FOOD SERVICE					
Cafeteria / Dining					
Stage					
Chair / Table / Equipment Storage					
Kitchen Staff Lunch Room					
Stall Eulich Room	1				
MEDICAL					
Medical Suite Toilet					
Nurses' Office / Waiting Room					
Examination Room / Resting					
ADMINISTRATION & GUIDANCE					
General Office / Waiting Room / Toilet					
Teachers' Mail and Time Room					
Duplicating Room					
Records Room Principal's Office w/ Conference Area					
Principal's Secretary / Waiting					
Assistant Principal's Office					
Supervisory / Spare Office					
Conference Room Guidance Office					
Guidance Storeroom					
Teachers' Work Room					
CUSTODIAL & MAINTENANCE					
Custodian's Office Custodian's Workshop					
Custodian's Workshop Custodian's Storage					
Recycling Room / Trash					
Receiving and General Supply	1	1			
Storeroom Network / Telecom Room	1	1			
	1	1			
THER					
Other (specify)					
Total Building Net Floor Area (NFA)	1	1			
	1	1			
Proposed Student Capacity / Enrollment		1			
	1	1			
	1	1			
ION-PROGRAMMED SPACES					
Other Occupied Rooms (list separately)					
outer occupied rooms (list separately)					
Unoccupied MEP/FP Spaces					
Unoccupied Closets, Supply Rooms & Storage Room	ms				
Toilet Rooms					
Circulation (corridors, stairs, ramps & elevators)					
Circulation (corridors, stairs, ramps & elevators)					
Circulation (corridors, stairs, ramps & elevators) Remaining ³					
Circulation (corridors, stairs, ramps & elevators)			#DIV/0!		

	Date:	Enter Date	Enter Submittal
(refer	to MSBA E		uidelines ram & Space Standard Guidelines)
ROOM NFA ¹	# OF RMS	area totals	Comments
	44	42,850	
		42,000	
1,200		-	1,100 SF min - 1,300 SF max
1,200 950	7 35	8,400 33,250	1,100 SF min - 1,300 SF max; 2 sinks min. req
1,080	1	1,080	900 SF min - 1,000 SF max; 2 sinks min. req Refer to STE Guidelines for Additi
120	1	120	Refer to STE Guidelines for Additi
120		120	TROPE TO OTE OUIGEMICS FOR AUGUS
		10,570	
050	-	0.050	
950 60	7	6,650 420	900-1,300 SF equal to surrounding classrooms
500	5	2,500	1/2 size Genl. Clrm.
500	2	1,000	1/2 size Genl. Clrm.
		6,300	
1,000	3	3,000	assumed schedule 2 times / week / student
150	3	450	
1,200 75	2	2,400	assumed schedule 2 times / week / student
/5	6	450	
		6,300	Excess PE Spaces Policy
6,000	1	6,000	6000 SF Min. Size
150	1	150	
150	1	150	
		4,810	
4,810	1	4,810	
0.000		10,956	
6,900 1,000	1	6,900 1,000	2 seatings - 15SF per seat
506	1	506	
2,220	1	2,220	1600 SF for first 300 + 1 SF/student Add'l
330	1	330	20 SF/Occupant
		710	
60	1	60	
250	1	250	
100	4	400	
		3,055	
610	1	610	
100	1	100	
150 110	1	150 110	
375	1	375	
125	1	125	
120 120	1	120 120	
250	1	250	
150	3	450	
35 610	1	35 610	
450		2,520	
150 375	1	150 375	
375	1	375	
400 406	1	400	
406 614	1	406 614	
200	1	200	
		0	
		88.071	
		920	Enter grade enrollments below
		552	Lower Elementary; Grades K-2 Upper Elementary; Grades 3-6
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			Non-Programmed space areas are
			required to be included in the
			following submittals:
			Schematic Design Submittal
			Design Development Submittal
			60% Construction Documents
			90% Construction Documents
			Final Construction Documents
L			
		133,400	132,106 at 1.5 multiplier
<u> </u>		1.51	
		1.51	

Glossary of Terms

For School Planning & Design



This glossary is intended for individuals associated with or interested in the planning and design of school facilities (School Committees, politicians, the interested public) who may not be familiar with terms currently used by educators, educational planners and architects. Definitions are kept short. For some terms, you may choose to obtain deeper definitions or examples.

Δ

active learning (vs. passive learning): any situation in which students are participatory and involved, often by making, doing, role playing, discussing, debating, etc., vs. just listening to the teacher.

academic high school: high school with a curriculum primarily focused on college prep; typically lacks school-towork or vocational programs.

advanced placement (AP): college-level courses offered in high schools, the content of which is determined by the standardized AP tests offered by the College Board. While completion of such courses in high school has been shown to increase the likelihood of success in college, some AP programs have recently been criticized for being based in rote learning.

advisory: typically in middle schools and high schools—a period of a day (often a short period) during which all students meet in small groups with an adult (teachers, paraprofessionals, administrators, etc.) to discuss almost anything that students have concerns about. It is often seen as a good way of making adult/student connections and improving communications.

alternative school: often a program within a school that is substantially separate from the general population. Typically serves students with social/emotional issues who have difficulty fitting in to traditional school environments. Depending on the needs of the school community, can serve other populations such as gifted and talented, kids at risk, dropouts, other...

at-risk students: often students who are not engaged or interested in school and are at risk of dropping out. This can range from high achievers who are bored to low achievers uninterested in school because it does not teach in a way they can learn or it is disconnected from their lives.

B

blended learning: a program in which content delivery is a combination of online and face-to-face school based learning. Students have some control of time, place and pace of learning.

block schedule: high school schedule with class periods of 90 to 120 minutes long, vs. the conventional 60-minute periods. The longer class period allows for "more time on learning," while also allowing for a variety of activities to be included in the period such as "hands on" or project-based lessons. Most often, students will take the courses every day, but only for a semester rather than the full year.

BYOD – bring your own device: a school policy in which students are expected to provide their own laptop or tablet for in-school (and home) use. The school typically includes a supplemental program of providing devices to students whose families do not have the financial resources to provide their own. Some schools see this as inequitable since students of means with higher-end devices may have an advantage over other students. It can present network security issues as well, though many schools have overcome them. School-supplied IT and network support is essential, as is teacher professional development in device usage and instruction.

C

choice: a program that allows students to enroll in a school district in which they don't live. This program is intended to give students in low performing schools or districts opportunities to access better schools; sometimes initiated to increase diversity within the host community.

classroom: the basic instructional space within schools.

class size: Typically a target number for the maximum number of students in a given class type or subject area. Sometimes set by the school committee or district administration, sometimes set by union contracts. Often varies by grade level; sometimes varies by ability levels, e.g. high-achieving students may have larger class sizes because that might have little effect on their performance, whereas by contrast a lower achieving student may benefit greatly from a smaller class size.

cluster plan: classrooms organized with close adjacencies, often around a large-group instruction space, project room or other focal space. This is in contrast to a double loaded corridor. In middle schools, a cluster often houses a "team" (teachers who share the same group of students). In high schools, they can house an academic department, a house or a school within a school; often defines a small learning community.

comprehensive high school: a school that includes an academic curriculum and vocational curriculum or technical training.

constructivist learning: a philosophy originally developed by John Dewey based on hands-on activities, inquiry, exploration and discussion. Direct instruction by teachers is minimized.



core academics: English, social studies, math, science, foreign language curricula, sometimes the arts are included.

critical thinking: the trained ability to think clearly and dispassionately. Critical thinking is logical thinking based on sound evidence, involving the ability to gather and analyze information and solve problems. (D. Ravitch)

D

DESE - (Massachusetts) Department of Elementary and Secondary Education: current name for the Department of Education. http://www.doe.mass.edu/

differentiated instruction: instruction intended to match the delivery method and experiences with individuals' different ways of learning.

double-loaded corridor: a traditional classroom plan in which rows of classrooms flank both sides of a corridor; also referred to as an egg-crate design.

Е

early childhood: grade grouping that starts with Pre-K and kindergarten, often includes grade one and sometimes additional early grades.

egg-crate plan: see double-loaded corridor.

ESL: English as a Second Language, programs for students who do not have fluency in English.

ELL: English Language Learner - a student in an ESL program whose native language is not English and who lacks enough proficiency in English to be mainstreamed for part of the school day.

English language arts: English curriculum.

ergonomic furniture: typically lightweight, easy-to-move and more comfortable than the traditional hard plastic or wood furniture. It recognizes that individuals learn better when they are comfortable.

F

flipped classroom: a delivery process in which the curriculum content, such as lecture, video, reading or other, is provided to the student to experience outside the classroom (homework). Class time is then used for discussion with and among the students, group projects and other application of content knowledge. A component of active learning.

FTE (full time equivalent): A 1.0 FTE is a full-time teacher or student, while an FTE of 0.5 indicates that a teacher or student is half-time. Two half-time teachers equal 1.0 FTE.

G

grade configuration: the arrangement of grades that make up a school; can vary significantly among communities; most often set around pedagogy but occasionally set around available facilities.

guide on the side: a teacher as a facilitator rather than providing direct instruction, in contrast to a "sage on the stage."

н

house (plan): a grouping of spaces: classroom, administrative, support, etc. developed around an identity or theme; can be a school within a school.

I AM HUMan: the Integration of Art and Music into the HUManities. Akin to STEAM, this integration is just as important.

immersion (full): an instructional approach combining written, musical and visual arts and culture to a subject, often referred to in foreign languages.

inclusion: special education students integrated into typical general education classrooms. The term is also used for ELL students integrated into typical general education classrooms.

interdisciplinary learning: an approach of multiple core subjects being taught in an integrated way, often on a subject or theme and often around a project.

intervention: most often a specialist who joins a general education classroom to assist student(s) in need of assistance rather the "pulling them out" for that assistance.

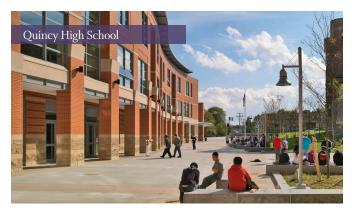
L

large group instruction (space): a larger, unassigned space used for a variety of activities such as: multiple classes that meet together; for guest lecturers; for project work, gallery space, large meetings (student or community), etc.

learning style: modes of learning that reflect individuals' natural and sometimes trained traits such as: visual, verbal, tactile, kinesthetic, or auditory.

lifelong learning: just what it says—a belief that with the correct approach in school, people will remain engaged and excited about learning throughout their lives.

life skills program: programs for students with severely restricted cognitive development. Programs vary from school to school but in high schools the spaces needed often include a training kitchen; apartment-like area with a bed; adult-assist toilet room with shower and changing table, and a variety of small group teaching environments, including technology.





While often present at all grade levels, high schools typically include the most developed programs. Space requirements are in the range of 1,200–1,500 sf for a class size of 8–12 students.

looping: students remain with a teacher for multiple years rather than changing teachers every year.

M

mainstreaming: special education students placed in general education classrooms; may be done for some or all classes based on the students' disabilities; also referred to as inclusion.

maker spaces: a relatively new term for a hands-on space, often with age-appropriate tools to create, prototype, and test ideas and projects.

mastery learning: an approach of students in which students advance their studies based on their knowledge of the subject rather than seat time or age.

METCO: The Metco Program, originally begun in 1966, is a grant program funded by the Commonwealth of Massachusetts. It is a voluntary program intended to expand educational opportunities, increase diversity, and reduce racial isolation, by permitting students in certain cities to attend public schools in other communities that have agreed to participate. http://www.doe.mass.edu/metco/

modality: a means by which learning occurs, as, for example, through visual or kinesthetic experience. Also see learning style. (D. Ravitch)

MSBA – Massachusetts School Building Authority: created in 2004 to replace the former school building assistance program administered by the Department of Education, The Massachusetts School Building Authority ("MSBA") is a quasi-independent government authority created to reform the process of funding capital improvement projects in the Commonwealth's public schools. The MSBA strives to work with local communities to create affordable, sustainable, and energy-efficient schools across Massachusetts. http://massschoolbuildings.org/

multiple intelligences (MI): a theory introduced in 1983 by Howard Gardner, that people demonstrate their capabilities and learning proficiencies through a single or combination of intelligences. Current intelligences include: Verbal/Linguistic; Logical/Mathematical; Bodily/Kinesthetic; Musical/Rhythmic; Visual/Spatial; Interpersonal; Intrapersonal; and Naturalist.

P

paraprofessional: a trained aide who assists the classroom teacher, often in special education classrooms or regular ed classrooms that mainstream special education students. The "para" often does not have the same credentials and training as regular classroom teachers. (D. Ravitch)

pedagogy: the study of education and education practice. Also, a philosophy about the best way to teach. (D. Ravitch)

peer-to-peer learning: students learning from each other.

pod plan: see cluster plan.

portable classrooms: prefabricated building components that comprise classrooms and often wings used to accommodate overcrowding; also used as swing space to temporarily house classes during renovation projects.



project-based learning: this learning modality meets curriculum content goals by asking students to address deep, open-ended situations, such as solving problems or inventing things. It is naturally inclined to interdisciplinary learning and student collaboration, both highly valued 21st Century learning skills.

pull out (pull over): removal of a special education from the classroom to a separate room or space for remedial or targeted instruction.

R

resource room: special education space intended for small group instruction and/or tutoring or remedial work; also referred to as a learning lab.

S

sage on the stage: teacher at the front of the classroom in lecture mode; teacher- focused instruction.

school-to-work program: programs designed to prepare students to move directly into the workforce after high school rather than going to college, often associated with vocational training programs.

school within a school: most often incorporated in very large high schools to break down the size of the school into multiple schools within the same building or campus, often with separate administrations and facilities; can be designed around academic specialties or social houses or other ways to create smaller learning communities.

sections: the number of classes needed to fulfill a curriculum offering.

service learning: programs in which students engage in real-world and socially relevant community activities in ways structured to enable them to attain specified academic learning objectives.

small group instruction (space): small teaching space (often anywhere between 80–200 sf) intended for individual or small group learning or activity; meant for a variety of uses including: individual or peer-to-peer learning, accommodation of individualized learning styles, special education or regular education

social-emotional: an area of special education for students with disabilities related to cooperating with others or establishing relationships within a classroom or school community.

SPED: programs of special education.

stand-up desks: student desk used by standing or sitting on a high stool, to facilitate a student's kinesthetic or physiological needs to move and, in doing so, helping the student to focus on tasks at hand.

STEM: the integration of Science, Technology, Engineering, and Math in an applied and interconnected way.

STEAM: the integration of the arts (design and visual and performing arts) into a STEM curriculum.

student-centered (classroom): also referred to as learner-centered (vs. teacher-centered).

T

Title I: a federally funded program begun in 1965, providing funds for programs intended to improve academic improvement of low income children.

Title IX: federal legislation passed in 1972 that prohibits discrimination based on gender; most often associated with equal sports facilities for girls and boys, pertaining to quantity of space, programs and spending.

V

visioning: an often community-based effort of assembling stakeholders (including educators, teacher and administrators, students, parents, and community members) for the purpose of exploring, in a workshop format, how the school or school district might develop long-term direction for educational delivery and the facilities needed to support this delivery.

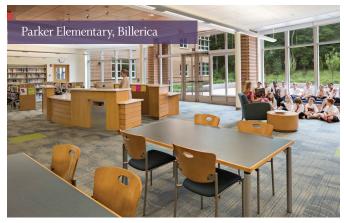
#

1:1: a smart device for each student in the school. This could be a tablet, laptop or one of the many devices that are in between, such as a Chrome Book. Smart phones are not typically included in this category since serious research and writing is almost impossible using them. For 1:1 programs to be effective, students need to be able to use the devices at home and elsewhere, not just at school. 1:1 can be implemented through either school-provided devices or BYOD, "bring your own device."

3:1: Digital infrastructure needed for 1:1 programs. Many people, mostly adults in the school for the moment, use multiple devices: smart phone, tablet and laptop. When in the wireless mode, they are all trying to connect to the network at the same time, putting an even bigger strain on often inadequate wireless systems. So when we are discussing developing 1:1 programs for schools, the wireless infrastructure needs to be far more robust (larger bandwidth) to accommodate even more devices in the future.

21st century skills: as defined by "The Partnership for 21st Century Skills," is made up of the 4 Cs: Communication, Collaboration, Creativity, and Critical Thinking/Problem Solving. http://www.p21.org/









For those of you who want to understand educational terms well beyond those related to school planning and design, consult the following:

Ed Speak: A Glossary of Educational Terms, Phrases, Buzzwords, and Jargon, Diane Ravitch, ASCD, 2007

(In some cases, this book was referred to when developing definitions as they relate to planning and design.)

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