

**Board of Selectmen, School Committee, Appropriation Committee,
Capital Expenditures Committee
June 14, 2018
7:00 PM
Cafeteria, Hadley Public Services Building, 201 Bedford Street**

AGENDA

ITEMS FOR INDIVIDUAL CONSIDERATION

- | | | |
|----|--|-----------|
| 1. | Discussion of School Master Planning Committee (30 min.) | 7:00 p.m. |
| 2. | LHS Science Lab Space Update (60 min.) | 7:30 p.m. |

ADJOURN

- | | | |
|----|-------------------------|-----------|
| 1. | Anticipated Adjournment | 8:30 p.m. |
|----|-------------------------|-----------|

A Joint Board of Selectmen and School Committee Meeting regarding Mental Health Services is scheduled for Monday, June 18, 2018 at 7:00 p.m. in Estabrook Hall, Cary Memorial Building, 1605 Massachusetts Avenue.

The next regularly scheduled meeting of the Board of Selectmen is scheduled for Monday, June 25, 2018 at 6:30 p.m. in the Selectmen's Meeting Room, Town Office Building, 1625 Massachusetts Avenue.

Hearing Assistance Devices Available on Request

All agenda time and the order of items are approximate and subject to change.



AGENDA ITEM SUMMARY

LEXINGTON BOARD OF SELECTMEN MEETING

AGENDA ITEM TITLE:

Discussion of School Master Planning Committee (30 min.)

PRESENTER:

School Committee

ITEM NUMBER:

I.1

SUMMARY:

The School Committee will review its plan for a Master Planning Committee.

SUGGESTED MOTION:

NA

FOLLOW-UP:

DATE AND APPROXIMATE TIME ON AGENDA:

6/14/2018

7:00 p.m.

AGENDA ITEM SUMMARY

LEXINGTON BOARD OF SELECTMEN MEETING

AGENDA ITEM TITLE:

LHS Science Lab Space Update (60 min.)

PRESENTER:

Chris Lyons, Ass't Supt., Andrew
Stevens, Jackie Crowe, LHS; Mike
Cronin, DPF

ITEM NUMBER:

I.2

SUMMARY:

Options for the LHS science lab space will be reviewed.

SUGGESTED MOTION:

FOLLOW-UP:

DATE AND APPROXIMATE TIME ON AGENDA:

6/14/2018

7:30 p.m.

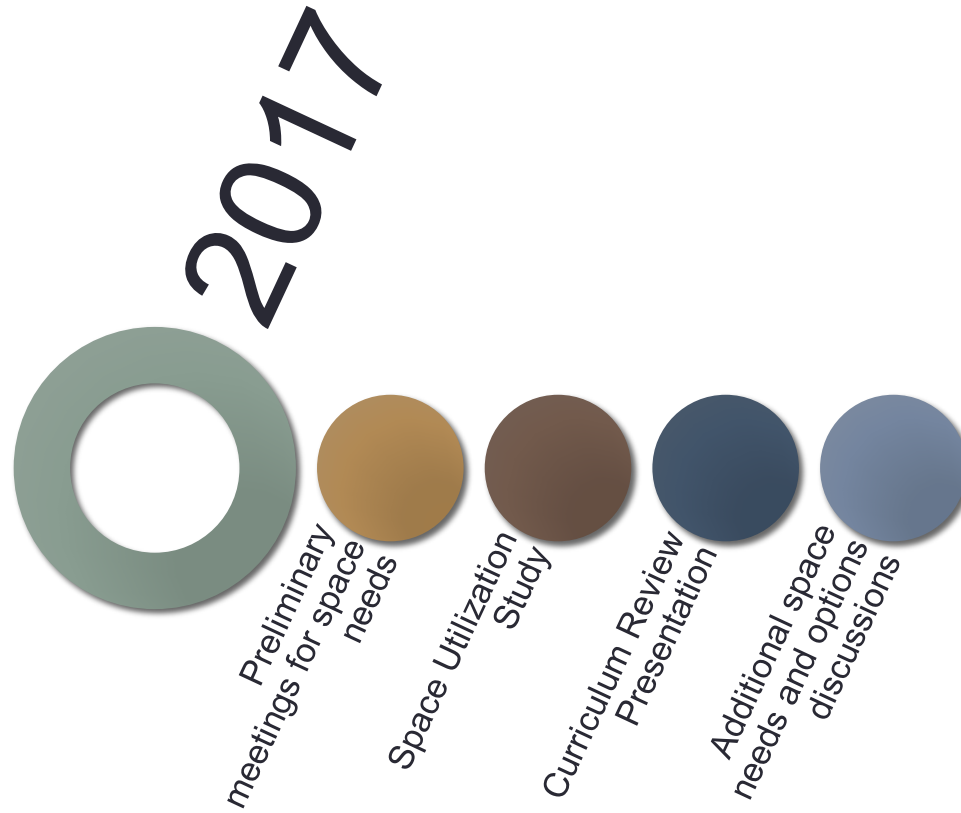
ATTACHMENTS:

Description	Type
 LHS Space Presentation	Backup Material

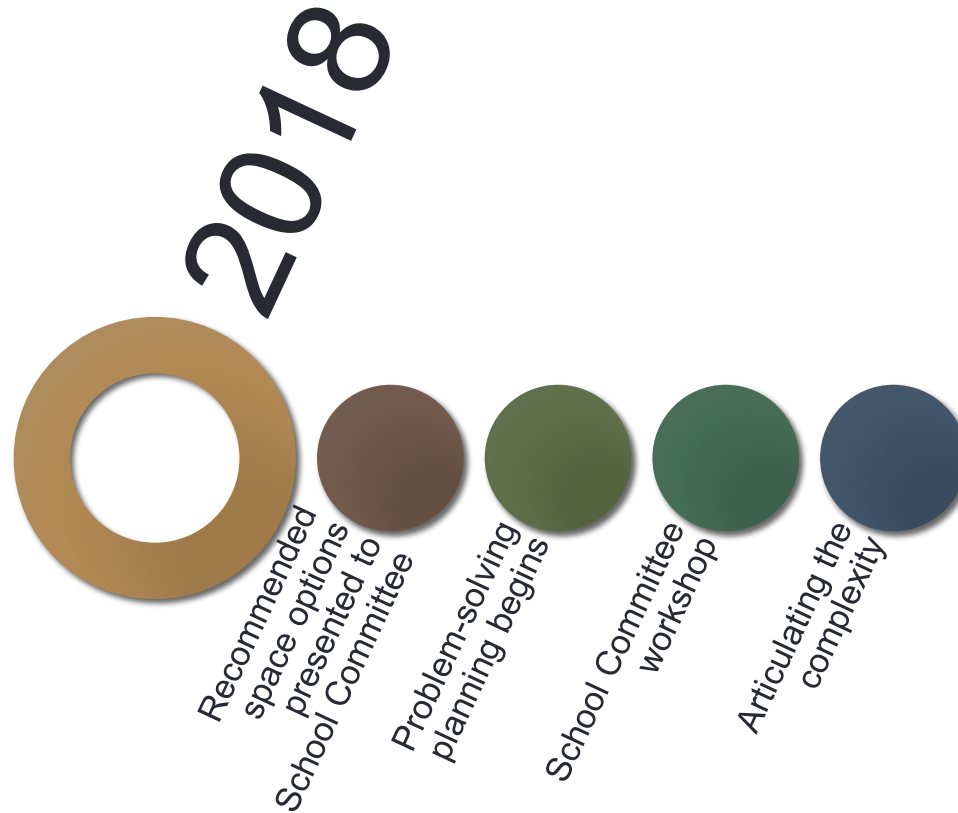
LHS SCIENCE SPACE DISCUSSION

Complex Issues, Possible Solutions &
Implications

Timeline



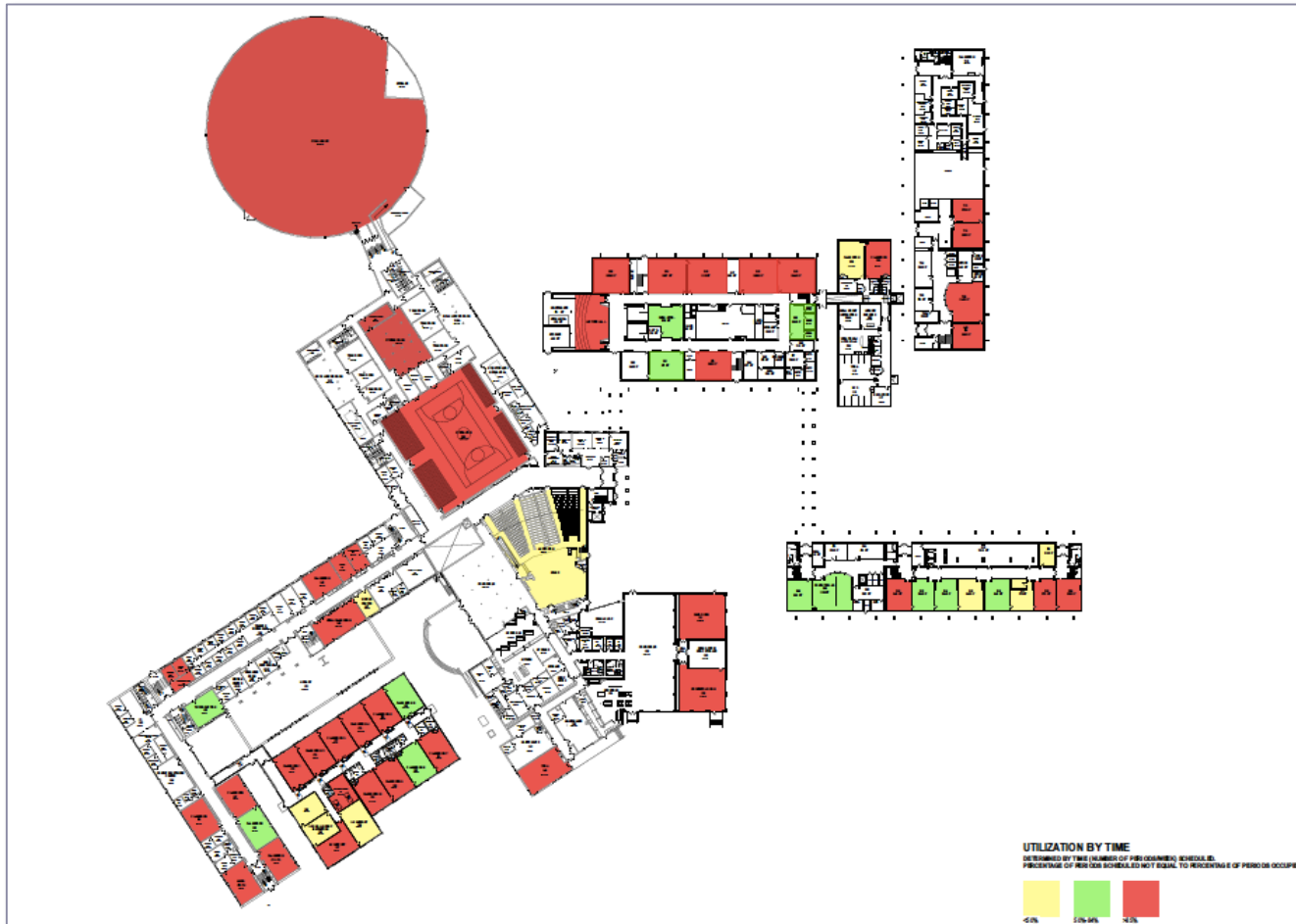
Timeline



THE NEED

Looking at the space

Utilization by Time



LHS 1st Floor

RED = *utilized 85% or more*

Occupied more than MSBA recommends and impacts flexibility re scheduling and use.

Utilization by Time

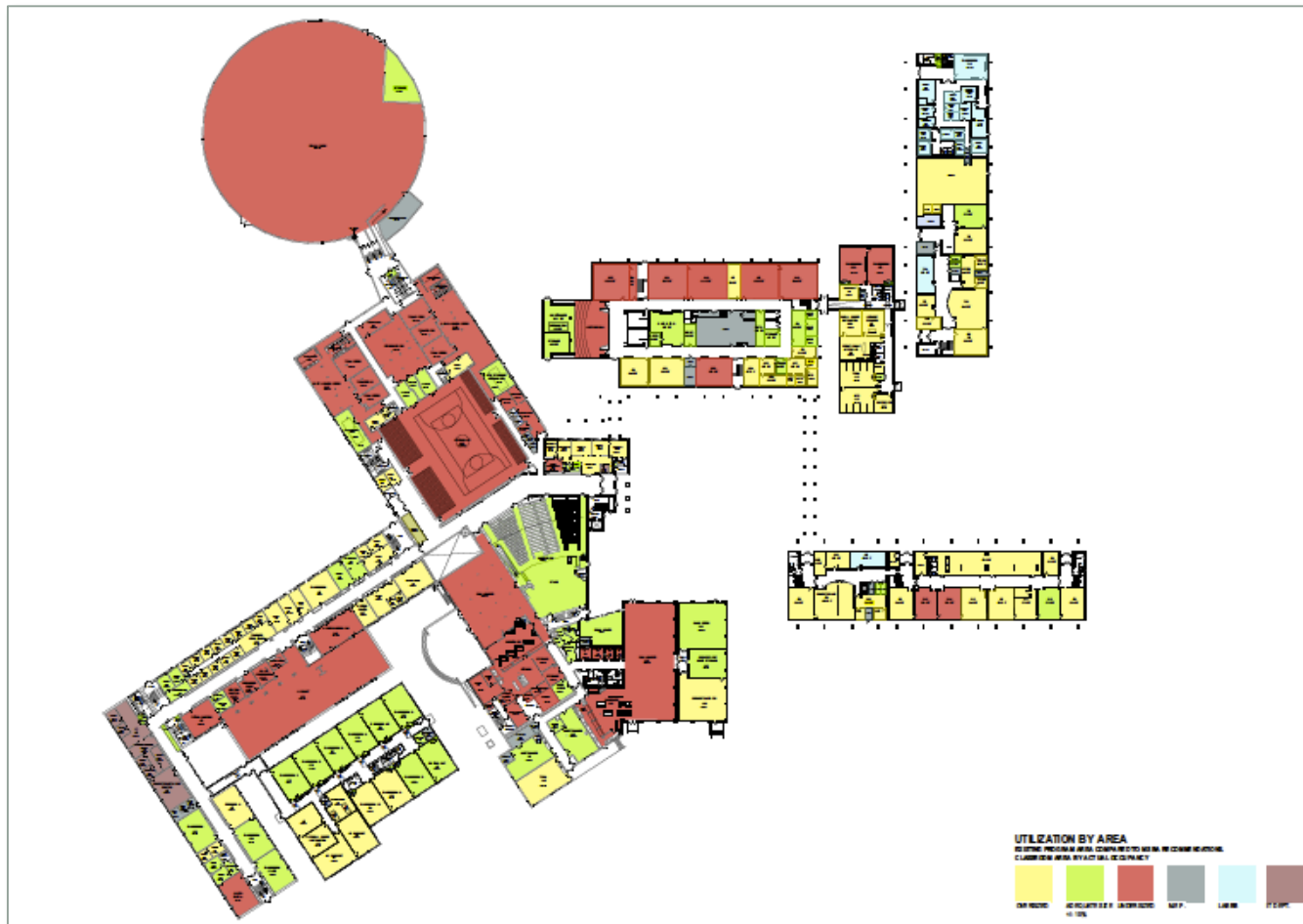


LHS 2nd Floor

RED = *utilized
85% or more*

*Occupied more
than MSBA
recommends
and impacts
flexibility re
scheduling and
use.*

Utilization by Area



LHS 1st Floor

RED = *Not in line with MSBA recommendation for size and number of spaces*

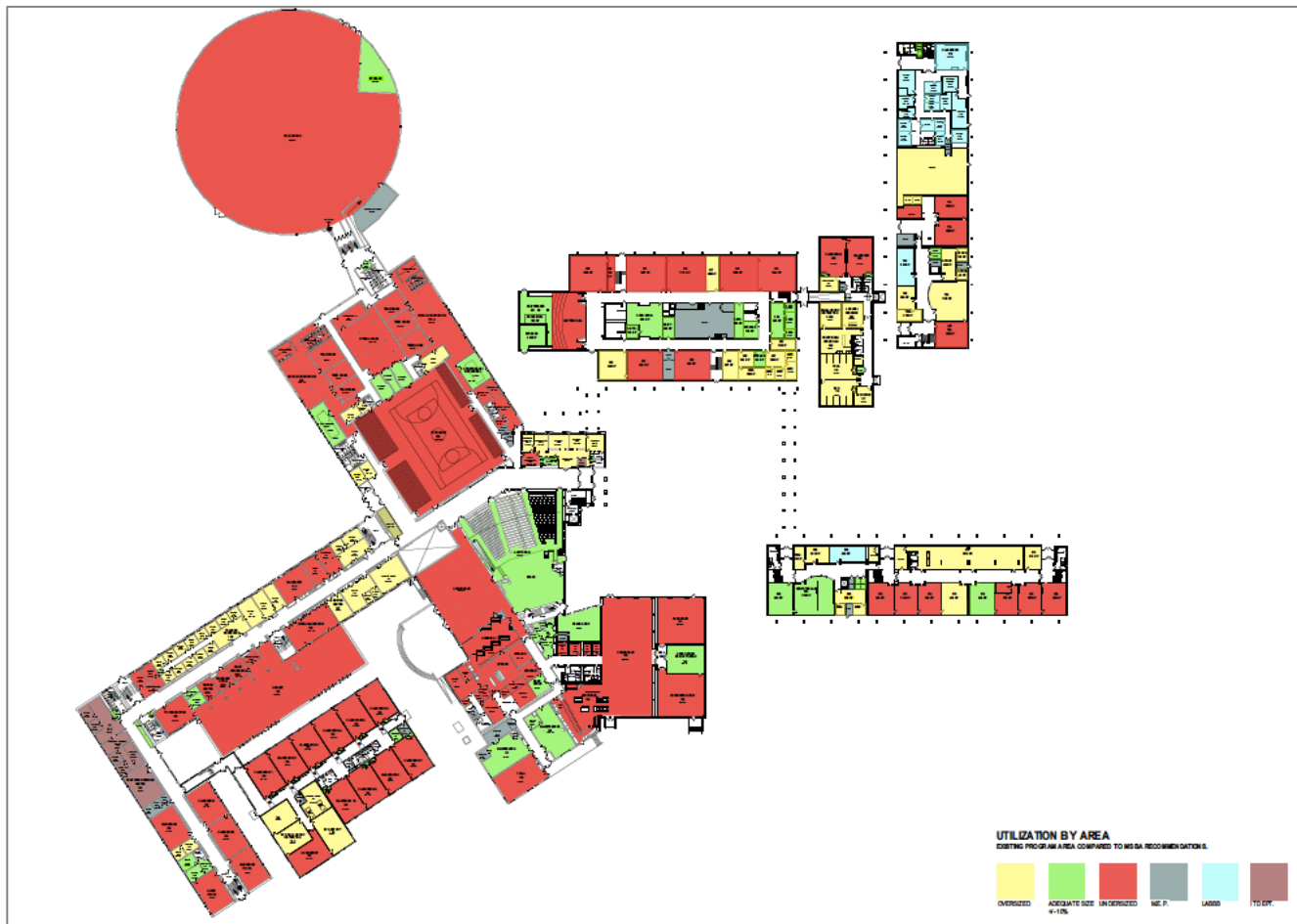
Utilization by Area



LHS 2nd Floor

RED = *Not in line with MSBA recommendation for size and number of spaces*

Combined Utilization: Time & Area



LHS 1st Floor

RED = *utilized
85% or more*

AND/OR

*Not in line with
MSBA
recommendation
for size and
number of
spaces*

Combined Utilization: Time & Area



LHS 2nd Floor

RED = *utilized
85% or more*

AND/OR

*Not in line with
MSBA
recommendation
for size and
number of
spaces*

Science Projected Capacity Shortfall

Summary:

2017-2019: Current space is adequate with current capacity:

Earth Science = 30 sections

Biology = 27 sections

Chemistry = 27 sections

Physics = 27 sections

2019 - 2020: Need space for **two (2)** additional sections of Biology above capacity

2020 - 2021: Need space for **three (3)** additional sections of Biology PLUS
two (2) additional sections of Chemistry above capacity

2021-2022: Need space for **two (2)** additional sections of Chemistry AND
one (1) additional section of Physics above capacity

2022 - 2023: Need space for **one (1)** additional section of Earth Science **three (3)** additional sections of Biology
one (1) additional section of Chemistry AND **three (3)** additional section of Physics above capacity

Science Shortfall by Year

School Year	Grade/Course	Enrollment	Total Section Needs	Current Capacity	Sections Over Capacity
<i>actual</i>					
2017-18	9/EES	532	25	30	
2017-18	10/Bio	586	27	27	
2017-18	11/Chem	558	27	27	
2017-18	12/Phys	549	25	27	
<i>projected</i>					
2018-19	9/EES	604	28*	30	
2018-19	10/Bio	537	26	27	
2018-19	11/Chem	581	27*	27	
2018-19	12/Phys	558	26	27	
2019-20	9/EES	631	29*	30	
2019-20	10/Bio	611	29	27	2
2019-20	11/Chem	537	26	27	
2019-20	12/Phys	583	27*	27	
2020-21	9/EES	584	27*	30	
2020-21	10/Bio	638	30*	27	3
2020-21	11/Chem	611	29	27	2
2020-21	12/Phys	539	25*	27	
2021-22	9/EES	648	30*	30	
2021-22	10/Bio	591	27*	27	
2021-22	11/Chem	638	29*	27	2
2021-22	12/Phys	614	28*	27	1
2022-23	9/EES	673	31	30	1
2022-23	10/Bio	655	30	27	3
2022-23	11/Chem	591	28	27	1
2022-23	12/Phys	641	30	27	3

What does this mean?

- 2019 – 2020
 - 10 -12 additional Biology class periods needing a room per week
- 2020 – 2021
 - 15 -18 additional Biology class periods needing a room per week
 - 10 -12 additional Chemistry class periods needing a room per week
- 2021 – 2022
 - 10 -12 additional Chemistry class periods needing a room per week
 - 5 – 6 additional Physics class periods needing a room per week
- 2022 – 2023
 - 5 – 6 additional Earth Science class periods needing a room per week
 - 15 -18 additional Biology class periods needing a room per week
 - 5 – 6 additional Chemistry class periods needing a room per week
 - 15 -18 additional Physics class periods needing a room per week

What does this mean?

- IF

- Space needs are especially acute for Biology and Chemistry beginning 2019 – 2020, and
- Classes can't be absorbed within current science spaces, and
- Current science space utilization is 85% - 100%

- THEN

- We need to create new science spaces OR
- Alternative scheduling and/or change course sequences

THINKING THROUGH THE OPTIONS

Brainstormed possibilities

1. Create freshman wing in main building
2. Schedule some students out of course sequence
3. Use Science Lecture Hall space with renovation
4. Use planning spaces for classrooms; move teacher planning
5. Better utilization for existing space; schedule open blocks
6. Add morning or afternoon blocks for extra science capacity; longer day
7. Move IT
8. Use Common Space

Overview of Options

DON'T BUILD

- Alternative scheduling
- Change course sequence

BUILD

- Add 1 - 2 classrooms/labs
 - Together
 - One at a time
 - Reconfigure current spaces
 - Utilize new modulars at LHS

Programmatic Trade-offs

SOLUTION

- Alternative scheduling of lab space

IMPACT

- Planning, lab preps, demonstration lessons, travel for teachers
- Teaching and learning

Programmatic Trade-offs

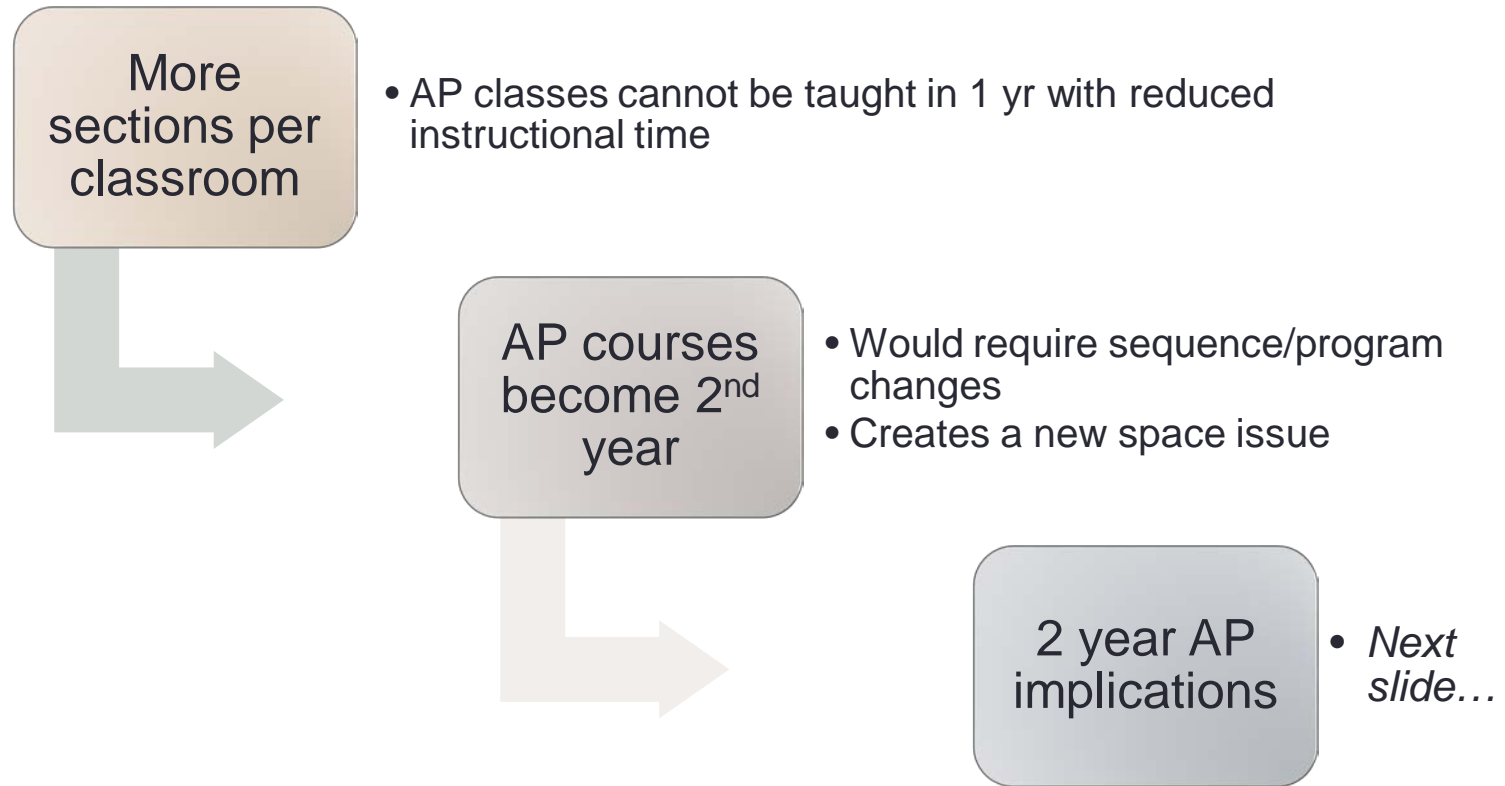
SOLUTION

- Reduce AP instructional time from 6 to 5 blocks per week

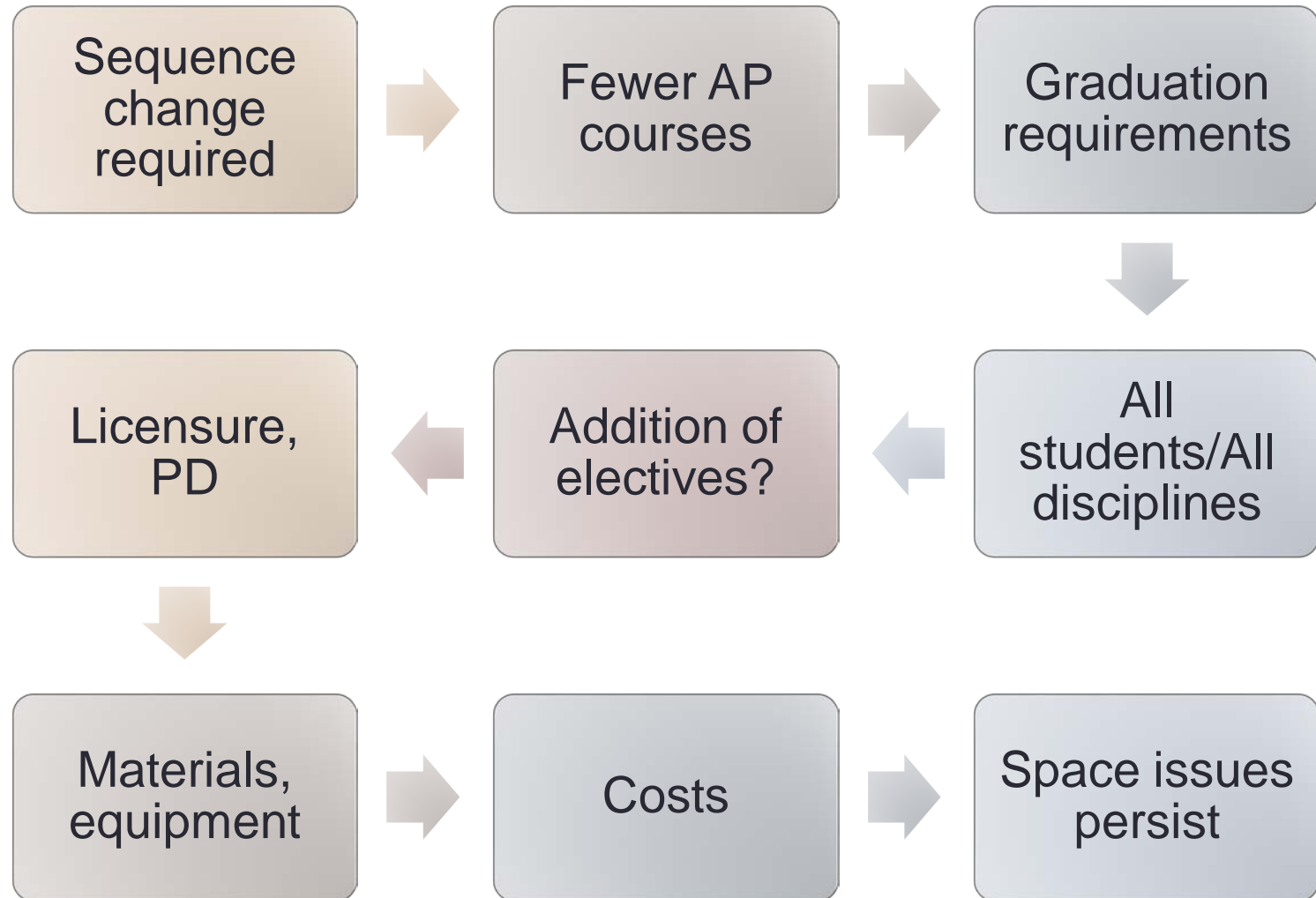
IMPACT

- Allows more class sections to meet in each classroom, but...

Implications of 2nd year AP courses



Implications of 2nd year AP courses



Overview of Options

DON'T BUILD

- Alternative scheduling
- Change course sequence

BUILD

- Find efficiencies within current space
- Add new space outside existing footprint

Build Options

SOLUTION

- Add 2 classrooms/labs
 - Together (2019-2020)
 - One at a time (2019-2021)
- Reconfigure current spaces
- Utilize new modulars at LHS

IMPACT

- Maintains current science program
- Repurposing non-classroom spaces as classrooms
- Addresses space issue but significant cost

Costs per square foot

- Diamond Middle School Modulares \$359 per SF
- Old + New Modulares \$389 per SF
- New Modulares \$463 per SF
- In-house renovations \$286 per SF

OTHER CONSIDERATIONS

Related ongoing initiatives

- LHS scheduling committee
- School Committee review of graduation requirements
- Visioning for future of LHS
- NEASC reaccreditation

Take-aways

- Current space does not fit immediate needs
 - Higher student enrollments and sections will exceed current space capacity
 - Current space limits the ability to utilize alternative scheduling
- Short term space needs can't be solved by course sequence changes
 - Current schedule and configuration of science scope and sequence requires more class meetings
 - Alternative scheduling will impact teaching and learning and is not an educationally sound practice
 - Sequence changes will take multiple years to implement
 - Adds costs and new space implications
- Understanding the cost, the recommendation is to build two classrooms/labs

TIMELINE OF BUILD OPTION

- FALL SPECIAL TOWN MEETING:
 - Approval of design & construction funds
- NOVEMBER –FEB. 1, 2019
 - Design completion
- FEBRUARY 1 – March 1, 2019
 - Bid process begins
- MARCH – MID-APRIL
 - Contract awards
- MID-APRIL-JULY 1, 2019
 - Contractor coordinating with sub-contractors & pre-purchasing materials
- JULY 1 – AUGUST 30, 2019:
 - Construction



Options 1 & 2 cost estimate

Lexington High School - Space Planning
Conceptual Program Cost Estimate
 1/18/2018



	Cost/SF	Option 1		Option 2	
Interior Renovation - extensive	\$ 125	SF	Cost	SF	Cost
Interior Renovation - minimal	\$ 30	3527	\$ 440,875	3319	\$ 414,875
New Mods	\$ 310.00	925	\$ 27,750	925	\$ 27,750
Connector	\$ 125.00		\$ -		\$ -
Subtotal - Finished Shell			\$ 468,625		\$ 442,625
FF&E - Lab	Cost/Room	Rooms	Cost	Rooms	Cost
FF&E - Classroom	\$ 55,500	2	\$ 111,000	2	\$ 111,000
Subtotal - FF&E	\$ 15,400	2	\$ 30,800	2	\$ 30,800
ESTIMATED DIRECT CONSTRUCTION COST (rounded)			\$ 141,800		\$ 141,800
General Requirements	14%		\$ 610,000		\$ 584,000
Overhead & Fee - including Ch 149	17%		\$ 85,400		\$ 81,760
TOTAL - DIRECT COST & OH&P			\$ 118,218		\$ 113,179
Escalation to Bid Date	8%		\$ 813,618		\$ 778,939
ESTIMATED CONSTRUCTION BID (rounded)			\$ 65,089		\$ 62,315
Design & Construction Contingency	15%		\$ 879,000		\$ 841,000
RECOMMENDED CONSTRUCTION BUDGET (rounded)			\$ 122,043		\$ 116,841
Cost per SF, building & site			\$ 1,001,000		\$ 958,000
Estimated A/E Fees (includes Civil)	11.3%		\$ 284		\$ 289
Reimbursables: soils, hazmat testing			\$ 113,113		\$ 108,254
ESTIMATED PROJECT COST (rounded)			\$ 25,000		\$ 25,000
			\$ 1,139,000		\$ 1,091,000
Classrooms Added		2 Chem/Bio Labs		2 Chem/Bio Labs	
Classrooms Relocated		2 Physics		2 Physics	
Other Spaces Relocated		Faculty Offices to Rm 309		Computer Classroom	
Classroom locations		2 in Bldg. G		Earth Science	
				1 in Bldg. G, 1 in mods 2	

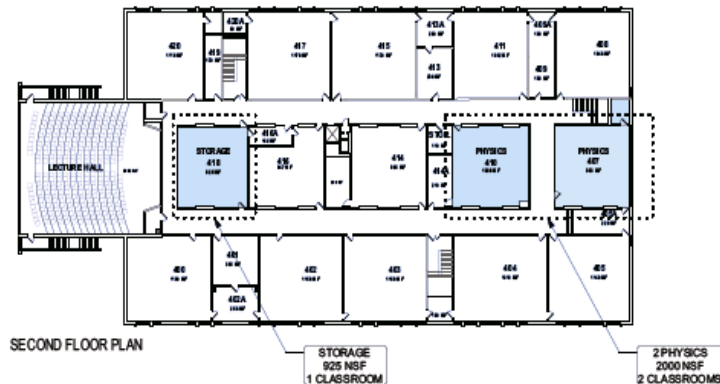
NOTE: OPTION 2 MAY REQUIRE RELOCATION OF THE COMPUTER/MEDIA LAB. AN ALTERNATE LOCATION HAS NOT BEEN DETERMINED. COST OF THIS RELOCATION IS NOT INCLUDED.

Decisions & Questions

- Space proposal for 2019 – 2020 (short term)
 - Accepted or Not?

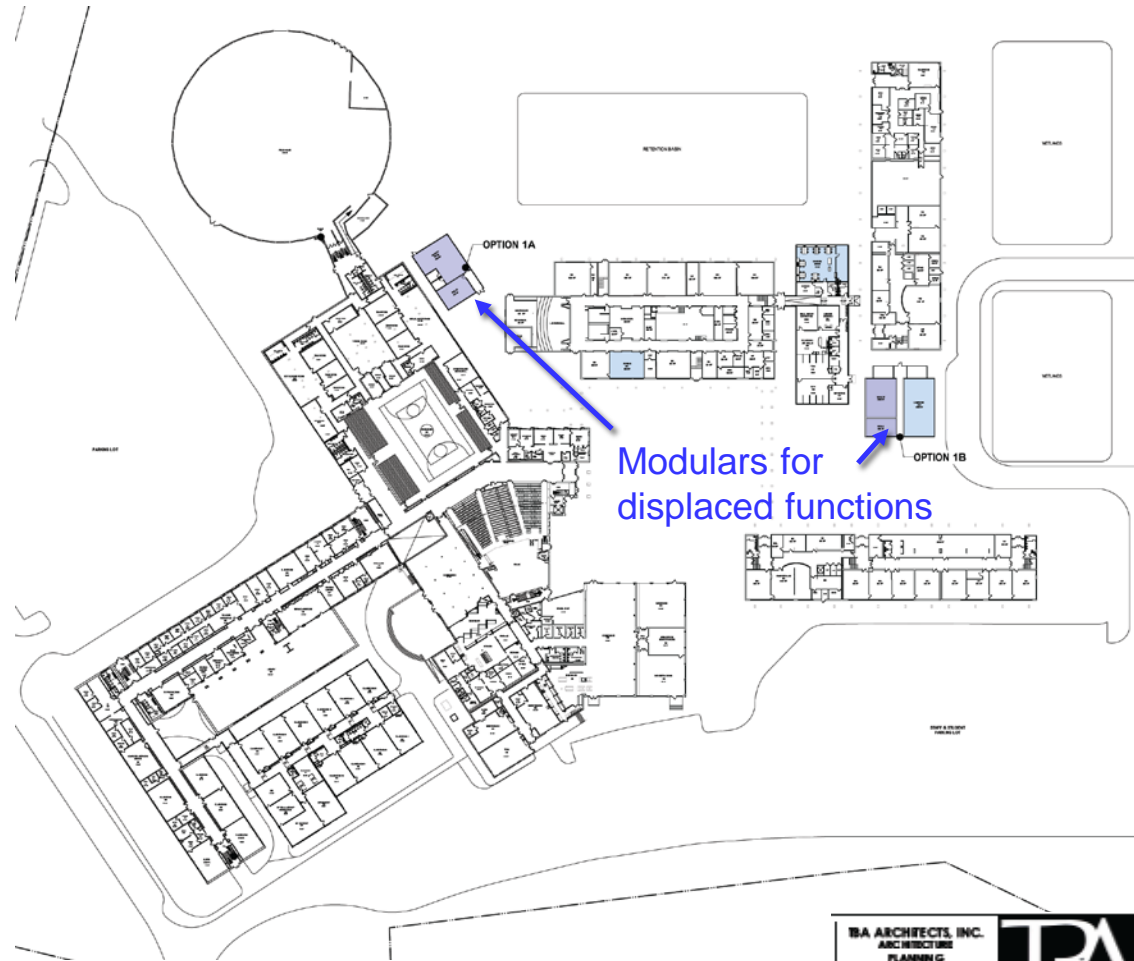
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FIRST FLOOR PLAN





Space Planning Option 1

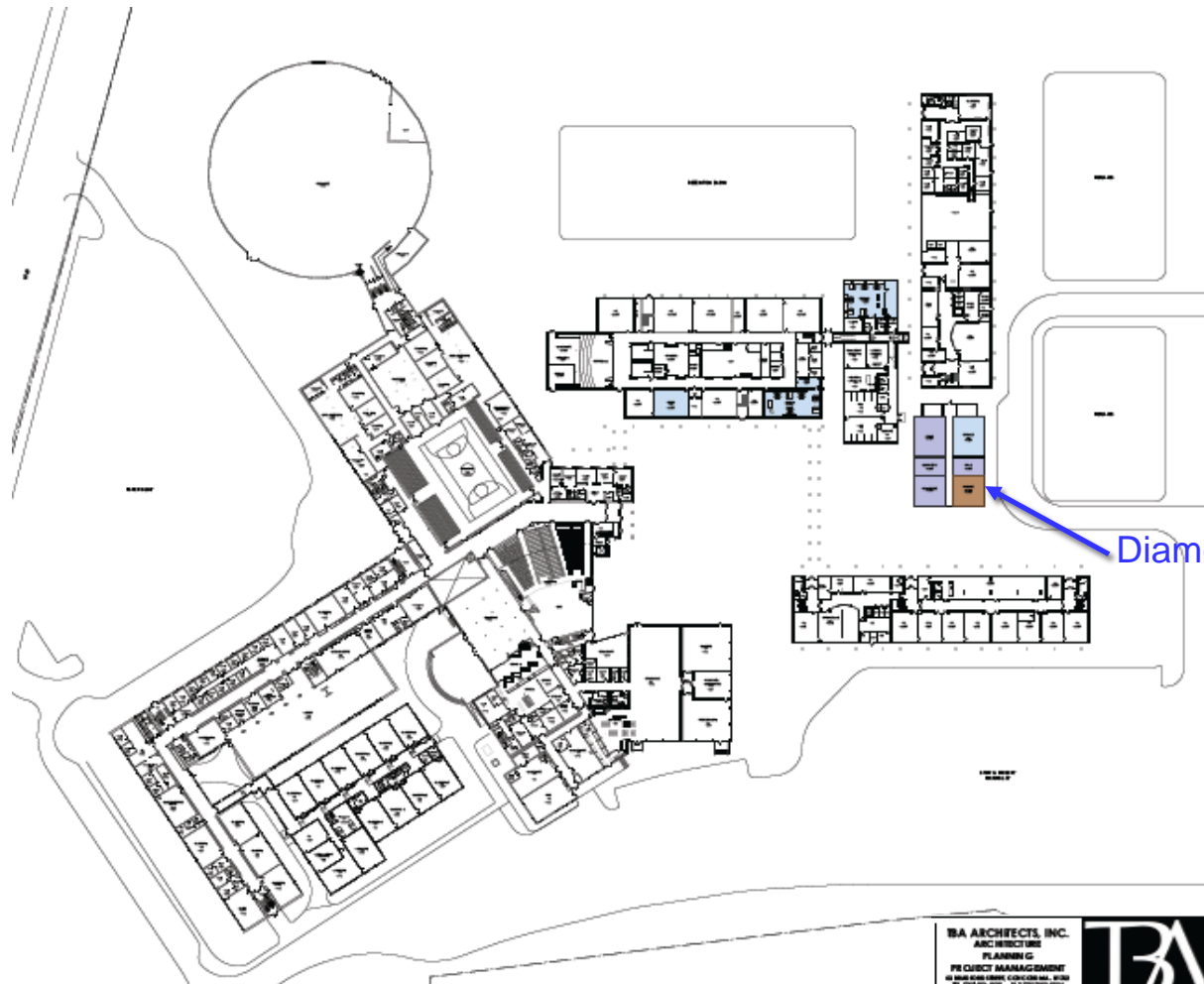


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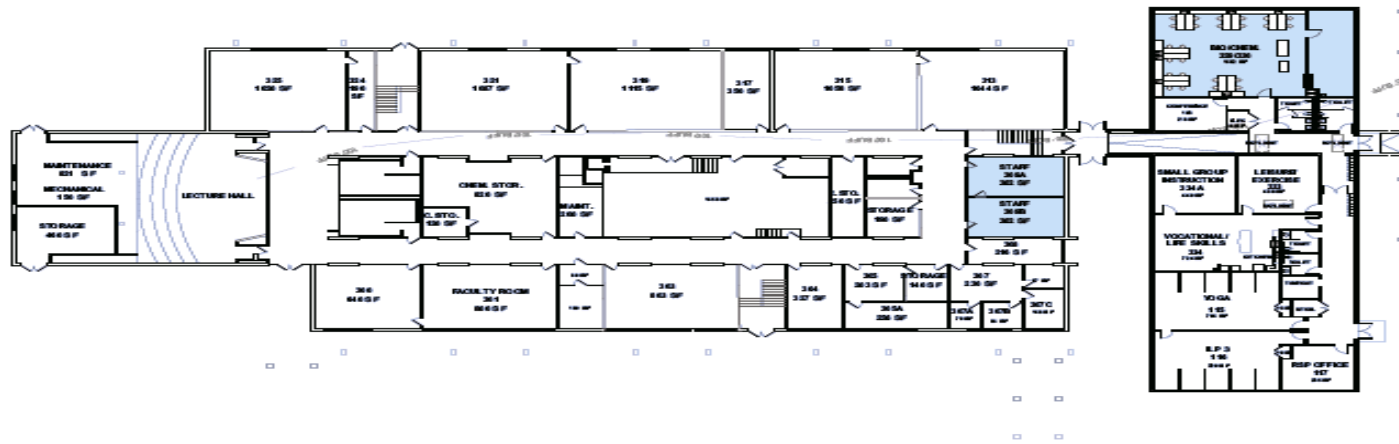
Space Planning Option 2



Diamond Modularity?

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ACCESS LANE



FIRST FLOOR PLAN



NOTE: THIS OPT
OF THE COMPU
LOCATION HAS