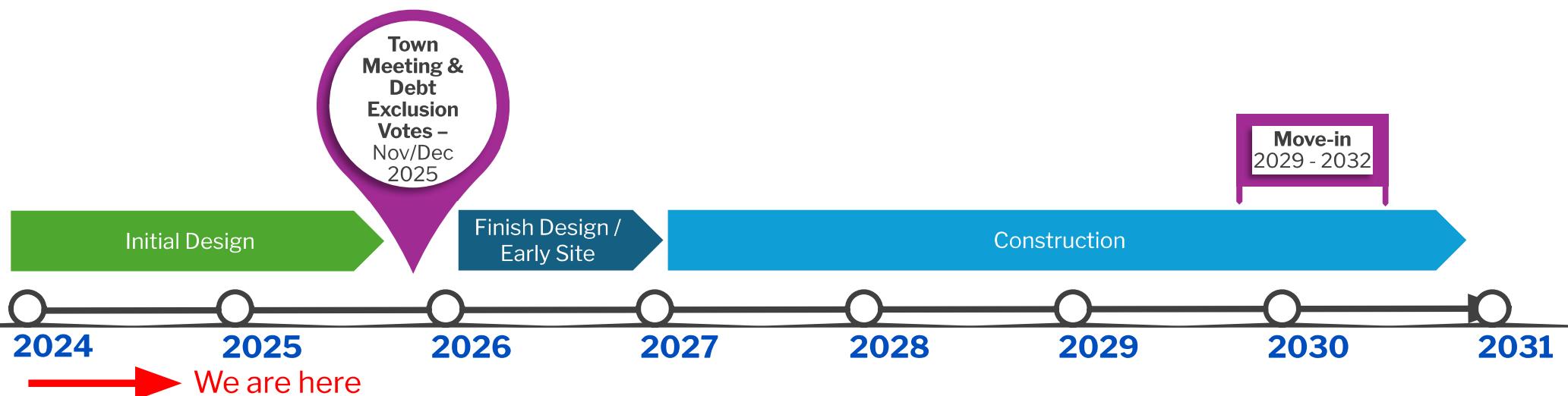


Lexington High School

Community Meeting



Project Timeline/ Anticipated Overall Project Timeline



All dates after local vote in November / December 2025 are subject to change based upon the selected option.

Construction duration is shown to provide a potential range. Final duration will be determined toward the end of initial design.

Move-in date will be determined after an option is selected. Anticipated move-in currently shown in the range of 2029 to 2032

Project Timeline/ Preferred Schematic Report



How We Got Here

7 → || → 19 →
18 → 5 → 6 →
2 → |



Construction Alternative Summary | Costs are School Building + Central Office + Renovated Field House

	B. Renovation & Addition		C. New Construction – On Fields			D. New Construction – Phased in Place
Alternative	B.1 Quad	B.4 Figure Eight	C.1d Branch	C.2b Braid	C.5b Bloom	D.2 Weave
Project Cost School + CO + FH	\$699,000,000	\$701,000,000	\$646,000,000	\$645,000,000	\$648,000,000	\$720,000,000
*Total Cost with Grants & Rebates	\$559,000,000	\$561,000,000	\$506,000,000	\$505,000,000	508,000,000	\$580,000,000
Construction Duration	6 Years	6.25 Years	4.5 Years	4.5 Years	4.5 Years	6.5 Years
# of Phases	4 building + 1 site	5 building + 1 site	1 building + 1 site	1 building + 1 site	1 building + 1 site	4 building + 1 site
Building Location	Existing Footprint	Existing Footprint	Fields	Fields	Fields	Existing Footprint
Modular Max Required	32	42	0	0	0	48
Costs are School Building, Central Office & Renovated Field House Only NO Pool						

*Estimated \$140M Grants & Rebates - NOT Final

10/30/2024

5

Construction Alternative Summary | Costs are School Building + Central Office + Renovated Field House

	B. Renovation & Addition		C. New Construction – On Fields			D. New Construction – Phased in Place
Alternative	B.1 Quad	B.4 Figure Eight	C.1d Branch	C.2b Braid	C.5b Bloom	D.2 Weave
Project Cost School + CO + FH	\$699,000,000	\$701,000,000	\$646,000,000	\$645,000,000	\$648,000,000	\$720,000,000
*Total Cost with Grants & Rebates	\$559,000,000	\$561,000,000	\$506,000,000	\$505,000,000	\$508,000,000	\$580,000,000
Construction Duration	6 Years	6.25 Years	4.5 Years	4.5 Years	4.5 Years	6.5 Years
# of Phases	4 building + 1 site	5 building + 1 site	1 building + 1 site	1 building + 1 site	1 building + 1 site	4 building + 1 site
Building Location	Existing Footprint	Existing Footprint	Fields	Fields	Fields	Existing Footprint
Modular Max Required	32	42	0	0	0	48
Costs are School Building, Central Office & Renovated Field House Only NO Pool						

D.2 Weave

Project Cost School, CO & FH	Total Cost with Grants & Rebates	Construction Duration	# of Phases	Building Location	Modular Max Required
\$720,000,000	\$580,000,000	6.5 Years	4 building + 1 site	Existing Footprint	48



Challenges:

- Major disruption to ongoing LHS building uses
- Construction schedule extended by ~2 years
- Increased cost vs. new construction on fields

PSR Options Update / D.2 Weave – Massing Perspective from Worthen Rd



PSR Options Update / D.2 Weave – Massing Perspective from Muzzey St



PSR Options Update / D.2 Weave – Massing Perspective from Clarke St



C.5b Bloom

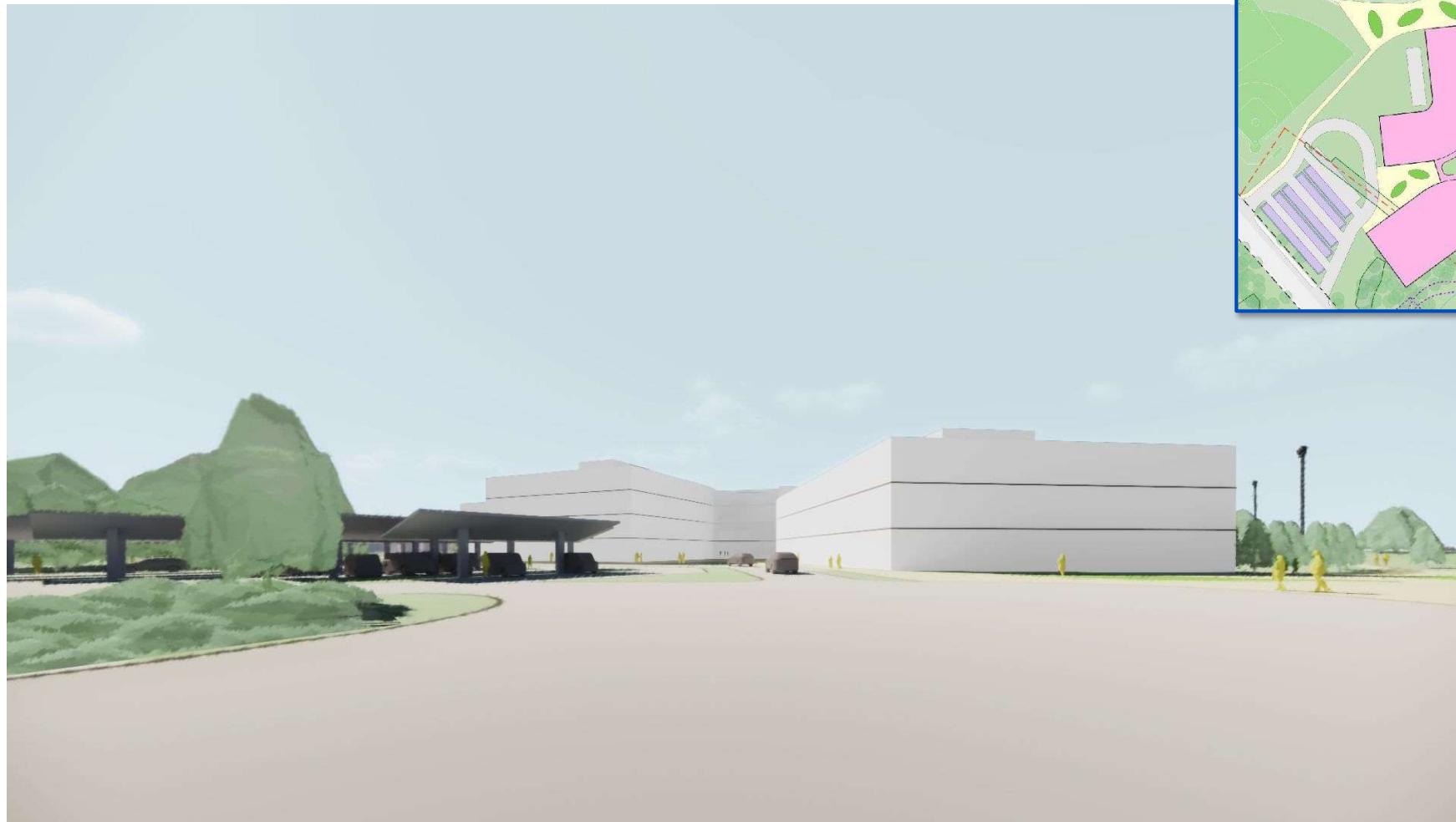
Project Cost School, CO & FH	Total Cost with Grants & Rebates	Construction Duration	# of Phases	Building Location	Modular Max Required
\$648,000,000	\$508,000,000	4.5 Years	1 building + 1 site	Fields	0



Challenges:

- Requires Article 97 legislation
- Requires relocation of some athletic fields

PSR Options Update / C.5b Bloom – Massing Perspective from Clarke Street



PSR Options Update / C.5b Bloom – Massing Perspective from Playground



PSR Options Update / C.5b Bloom – Massing Perspective from Park Drive



Preferred "In Place" Option / D.2 WEAVE

	B.1 Quad	B.4 Figure Eight	D.2 Weave
Project Cost	\$699 Million	\$701 Million	\$720 Million
Modulars	32	42	48
Construction Duration	6	6.25	6.5
Displacement of Fields (assuming ground source)	Fair	Fair	Fair
Disruption to Students	Poor	Poor	Fair
Academic Adjacencies	Fair	Fair	Good
Connections to Outdoors	Fair	Fair	Fair
Organizational Flexibility	Fair	Fair	Good
Site Circulation	Fair	Fair	Fair
Future Expansion	Fair	Fair	Good
Facilitates Inclusive Interactions	Fair	Fair	Good
Civic Presence	Fair	Fair	Fair
MEP Systems Design Efficiency	Poor	Poor	Good
Efficiency of Design	Poor	Poor	Good
Article 97 Implications	Fair	Fair	Good
Project Complexity	Poor	Poor	Fair
Construction Delay Potential	Most Likely	Most Likely	Likely
Need for Specialty Swing Space	Fair	Poor	Good
Ability to Meet Net Zero Capability	Likely	Likely	Likely

Preferred "On Fields " Option / C.5b BLOOM

	C.1d Branch	C.2b Braid	C.5b Bloom
Project Cost	\$646 Million	\$645 Million	\$648 Million
Modulars	0	0	0
Construction Duration	4.5	4.5	4.5
Displacement of Fields (assuming groundsource)	Poor	Poor	Fair
Disruption to Students	Good	Good	Good
Academic Adjacencies	Good	Good	Good
Connections to Outdoors	Good	Good	Good
Organizational Flexibility	Good	Good	Good
Site Circulation	Fair	Fair	Good
Future Expansion	Good	Good	Good
Facilitates Inclusive Interactions	Good	Good	Good
Civic Presence	Fair	Good	Good
MEP Systems Design Efficiency	Good	Good	Good
Efficiency of Design	Good	Good	Good
Article 97 Implications	Poor	Poor	Poor
Project Complexity	Good	Good	Good
Construction Delay Potential	Unlikely	Unlikely	Unlikely
Need for Specialty Swing Space	Good	Good	Good
Ability to Meet Net Zero Capability	Most Likely	Most Likely	Most Likely

Life Cycle Cost Analysis Update / HVAC Systems Costs & Incentives

Summary HVAC Systems Costs & Incentives (MassSave and IRA – Construction Incentives)

HVAC System Type	HVAC System – Total PSR Estimated Costs	Incentives (MassSave/IRA)	Total HVAC System Costs with Incentives	HVAC System Cost Savings	
Air Source HP	\$47,333,143	\$7,262,500	\$40,070,643		
Ground Source HP	\$63,349,619	\$28,867,387	\$34,482,232	(\$5,588,411)	13.9%

Notes:

1. System Costs(\$) based on the PSR Cost Estimates. Total system costs includes all HVAC equipment. GSHP System Costs includes bores/wells/casings for the GSHP system.
2. Costs do not include the existing site fields re-construction [~\$2,200,000].
3. Incentives include MassSave and IRA incentives listed in Table 2 below.
4. GSHP IRA incentives were updated to latest GSHP estimated costs.

Life Cycle Cost Analysis Update / Incremental Costs & Paybacks

Summary Incremental Costs & Paybacks (Not Including Solar PV System)

PSR Incremental Cost & Payback Summary Relative to PSR HVAC Systems Code Baseline Costs				
HVAC System	Incremental Costs	Estimated Annual Energy Costs Savings	Estimated Incentives MassSave + IRA	Estimated Payback
Air Source HP	\$3,951,639	\$453,333	\$7,262,500	0 yrs
Ground Source HP	\$19,967,115	\$458,654	\$28,867,367	0 yrs

Notes:

1. Energy Savings: based on total annual kWh savings, using the average 2023-24 \$0.24/kWh (utility bills). Peak demand savings not included (in progress)
2. Incremental Costs are based on the PSR Cost Estimates and include materials and labors and are based on a per cost comparison to the analysis system baseline (ASHRAE 90.1-2019 App G).
3. GSHP payback without the IRA incentives is estimated at 15-24 yrs. Please note that the well testing results and system efficiency in upcoming LCCA updates will contribute to a payback reduction
4. IRA GSHP incentives were updated based on PSR estimated system costs.

Student Enrollment Considerations

Increase #of Students per Class and Classroom Utilization Rates		
# of Students per Class	Classroom Utilization Rate	Total # of Students
23	85%	2395
24	85%	2480
25	85%	2546
25	90%	2695

Increased Class Size: This would be across the board except in rooms that have identified capacities. E.g. special education, technology labs where safety is a concern; science lecture/labs. In each of these cases, additional rooms would need to be added.

Utilization: It is industry standard to program a High School at 85%. One cannot simply translate an increased utilization rate to an increased number of students. Utilization is the percentage of time a room is used. The higher the rate, the reduced opportunity for students to be accepted into the desired classes. The higher the rate the more difficult it is for Administration to schedule the spaces.

Student Enrollment Considerations

Plus Expansion into Central Office Space

# of Students per Class	Classroom Utilization Rate	Total # of Students
24	85%	244

Central Office Retrofit: At this level of analysis this space has been calculated as general education classrooms only, although some of that space may need to be SPED or Admin space.

Plus Additional Expansion

# of Students per Class	Classroom Utilization Rate	Total # of Students
24	85%	256

Expansion Space: At this level of analysis this space has been calculated as general education classrooms only, although some of that space will most likely need to include SPED classrooms, Additional Dining and Media Center capacity and Admin space.



PARTICIPATION

Breakdown of Participation



734

Participants



551

Thoughts



16,155

Ratings



PARTICIPATION

Breakdown of Participation



Please rank your ideal construction approach by dragging the six dots the right (1=favorite/3=least favorite)

Ranking	Average ranking	Answer
#1	1.36	New Construction on the Fields
#2	2.05	New Construction in Place
#3	2.58	Addition/Renovation in Place



WORDCLOUD

Top Rated



A wordcloud visualization showing the most frequently used words in a 'Top Rated' category. The words are arranged in a cloud shape, with the size of each word indicating its frequency. The words are color-coded, and some have small text labels near them, likely indicating their context or a related term. The most prominent words include 'best', 'education', 'cheaper', 'old', 'learning', 'construction', 'least', 'kids', and 'faster'.

important place
years fields minimize expensive
space best education renovation
option strongly
impact cheaper old money project time
disruptive fastest long
bloom take learning less building
term new current design
effective prefer construction high
cost



Do you have a preference on the final two options. If so, why?

Thought Exchange



**[https://tejoin.com/scroll
/698863585](https://tejoin.com/scroll/698863585)**



Discussion/Q&A

smma

Thank you!