



Town of Concord

Concord Middle School

Middle School Building Committee 07.29.2021





Project Goals Recap



Total Project Cost Range per RFS \$80-\$100 M

Total Project Cost maximum per CMSBC vote \$108 M

Total Project Cost maximum currently estimated \$102 M





Replace two middle schools with one combined middle school, grades 6-8



Design enrollment 700 Students



Team Teaching Model, meet Ed Plan



Design for Net Zero Energy

Primary Goal:

Consolidate two middle school populations into a single, 21st century learning facility that will serve the community for generations.



Cost Management





Cost Saving Due-Diligence • To Date

Building Envelope

- Compact and Linear Footprint
- Commitment to Masonry exterior
- Commitment to "typical" and durable interior building materials
- 25% Window to Wall Ratio down from 30% in original FS estimate

Square-footage

- Compact and Linear Footprint
- Scheduling analysis during Feasibility, right-sized number and quantity of rooms (e.g. Smaller Dining area and Media Center than MSBA typical)
- Maker Space and Alt PE / Occupational Therapy space removed by CPS to lessen increase by Community requested square-foot increases to gym and auditorium
- Gym: Efficiencies through detailed discussion of requirements

Cost Saving Due-Diligence • To Date

Sustainability

 LEED certifiable and EZ Code with exceptions to be reviewed in lieu of Passive House; no formal certifications being pursued

Building Components

No lockers (note: tile will need to be added in its place)

Building Systems

- Flexible sprinkler pipe connections
- Variable Refrigerant Flow (VRF) system
- No natural gas for science labs or kitchen

Site Design

- Removed lower fields from project scope
- Fire Department agreed that fire lane on south side of building is not required due to sprinkler, proposed footprint, egress, etc.

Project Delivery Method

Design Bid Build in lieu of CM at Risk

Cost Saving Due-Diligence On-going

Sustainability

Reviewing number of EV charging (and readiness) stations

Building Envelope

Will continue to be refined <u>until bid!!</u>

Square-footage

- Gross area will continue refinement through Schematic Design
- Most efficient layout in Auditorium being studied
- Working with CMS Admin, Teachers and Staff to refine all classrooms, work rooms and storage areas

Building and Site Materials, Components, etc.

- Continued development of materials
- Continue review of operable wall quantity, type, location
- No roof-top outdoor classroom (instead: outdoor classroom "ready")
- Locate mechanical equipment to require minimal or no acoustic screening

Currently Known Cost Risks

Market Conditions

Unforeseen site conditions

Septic System design requirements







EXISTING

Total Property Area 31.3 Acres (1,400,000 SF)

Wooded or Sloped 16.1 Acres (700,000 SF)

Lower "Plateau" 2.7 Acres (117,000 SF)

Building/Parking/Septic 7.0 Acres (305,000 SF)

Remaining Area: 5.5 Acres (241,000 SF)

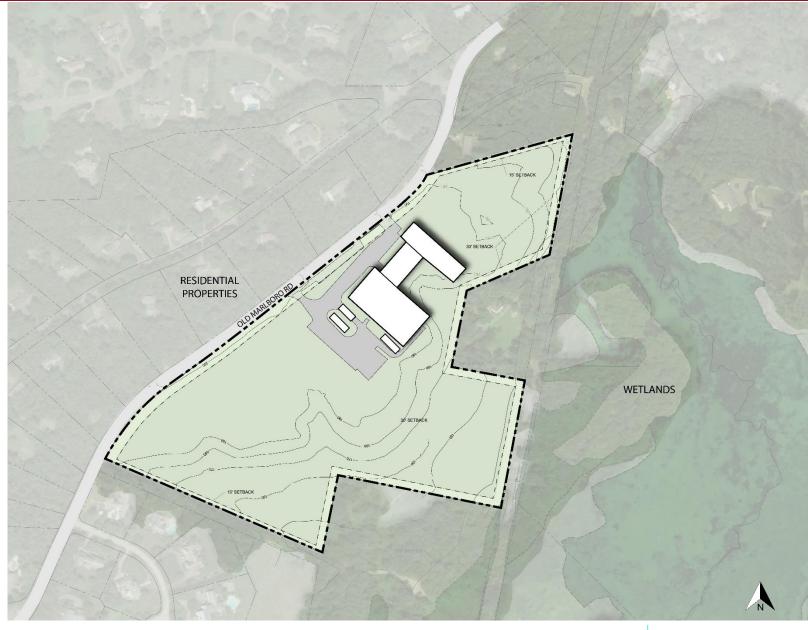
PROPOSED

Phase 1 L.O.W.

(Bldg, parking, circ, grading) 8.0 Acres (350,000 SF)

Phase 2 L.O.W.

(Athletic fields, grading) 7.8 Acres (341,000 SF)





LEARNING

Create a middle school learning environment that addresses the unique social and emotional needs of the early adolescent. This pedagogical priority translates into a facility that:

- Supports the efficacy of the educational team,
- Supports the fidelity of teaming,
- Embodies joy in learning,
- Fosters a pervasive spirit of inclusion,
- Offers opportunity for active engagement as well as opportunity for innovation, reflection and repose
- Places a social, collaborative, reflective media center at the heart of the school

CONTEXT

Create a building and a landscape that enhances the existing character of the community and is **strongly connected to the natural landscape**.

HISTORY

Create a building and a landscape that enhances town vitality and is strongly connected to the history of Concord.

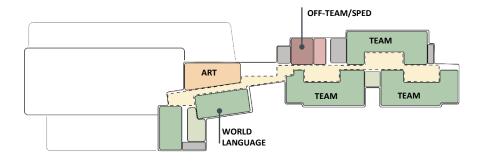
ENVIRONMENT

Create a building and a landscape that **utilizes resources wisely** – one that balances energy use and consumption with optimized comfort, learning, and wellness.

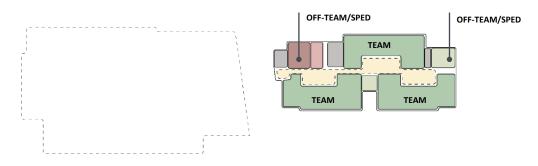




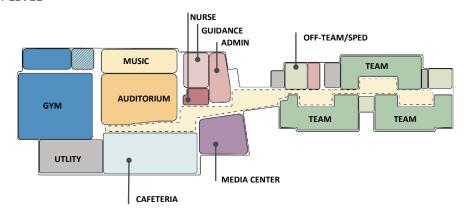


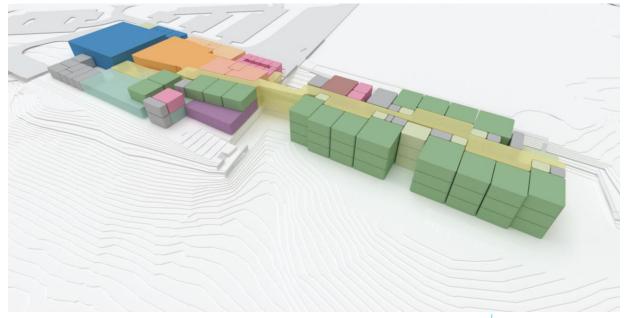


UPPER-LEVEL



LOWER-LEVEL









Connections









Materiality







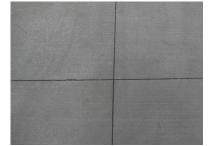


































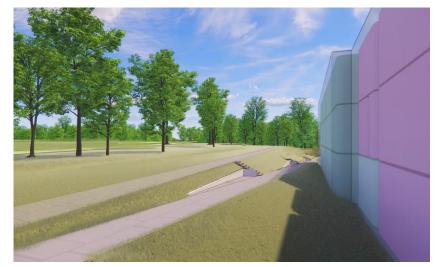
































































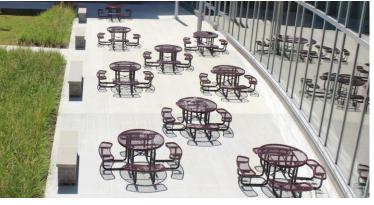






















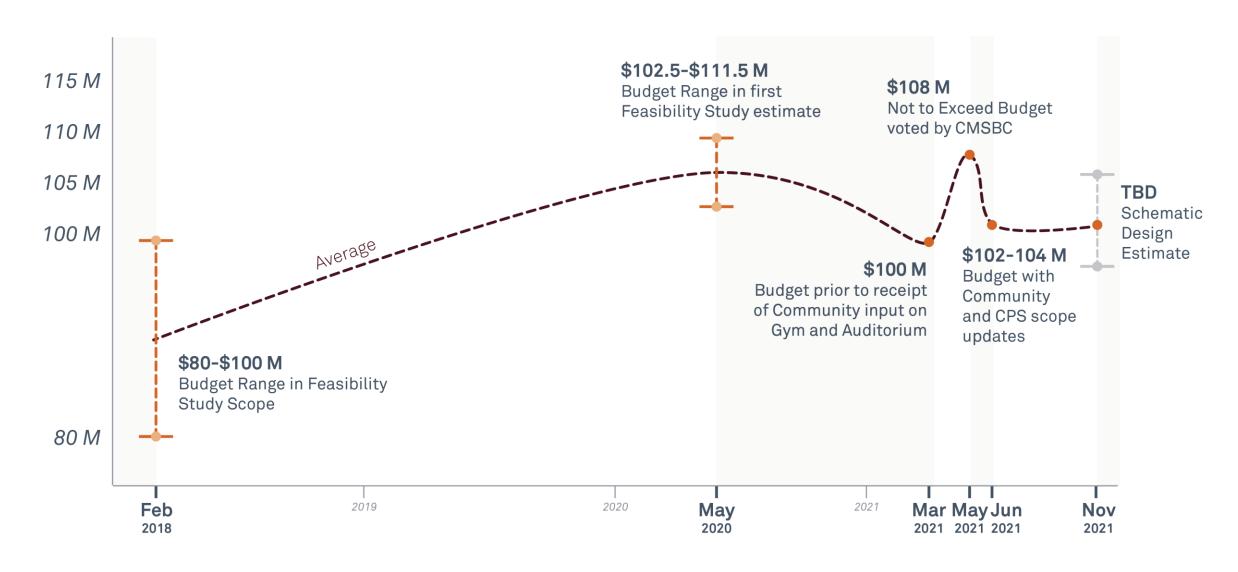


Budget Discussion





Project Budget Change









July 31, 2021

Concord Middle School Estimated Project Cash Flow Thru SD Phase

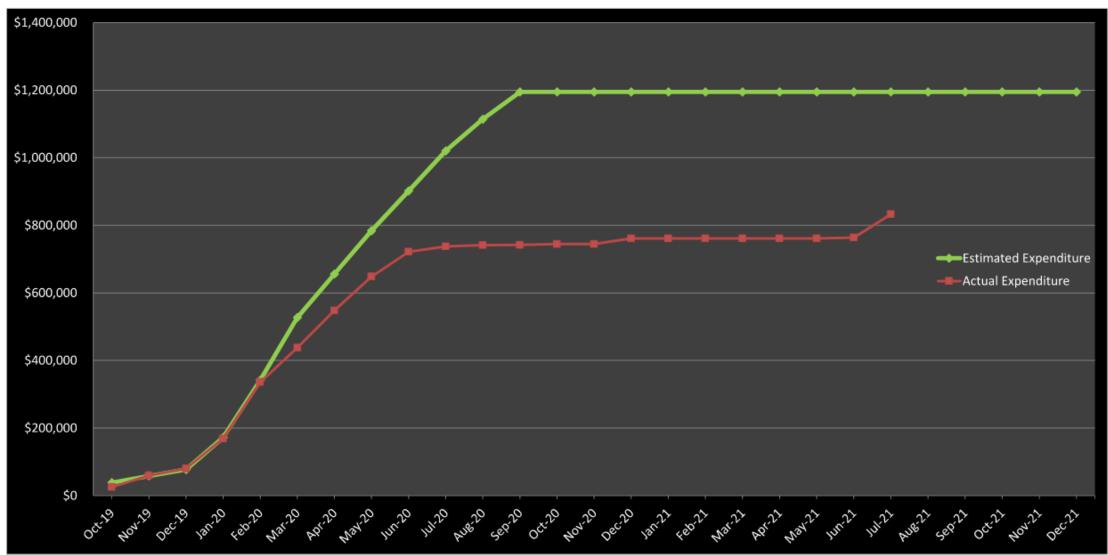


		Month	ОРМ	Designer & Consultants	Commissioning Agent, FF&E & Misc.	Construction	Contingency	Estimated Expenditures	Actual Expenditures	Estimated Cumulative Expenditures	Actual Cumulative Expenditures
Feasibility Study	1	Oct-19	\$38,290					\$38,290	\$25,110	\$38,290	\$25,110
	2	Nov-19	\$20,550					\$20,550	\$34,595	\$58,840	\$59,705
	3	Dec-19	\$18,790					\$18,790	\$20,660	\$77,630	\$80,365
	4	Jan-20	\$18,790	\$75,645				\$94,435	\$88,210	\$172,065	\$168,575
	5	Feb-20	\$18,790	\$151,290				\$170,080	\$167,735	\$342,145	\$336,310
	6	Mar-20	\$24,070	\$161,376				\$185,446	\$101,535	\$527,591	\$437,845
	7	Apr-20	\$22,670	\$105,903				\$128,573	\$110,125	\$656,164	\$547,970
	8	May-20	\$21,590	\$106,361				\$127,951	\$100,465	\$784,115	\$648,435
Pause	9	Jun-20	\$21,590	\$96,275				\$117,865	\$73,474	\$901,980	\$721,909
	10	Jul-20	\$22,290	\$96,275				\$118,565	\$15,520	\$1,020,545	\$737,429
	11	Aug-20	\$24,430	\$69,318				\$93,748	\$3,785	\$1,114,293	\$741,214
	12	Sep-20	\$53,450	\$26,957				\$80,407	\$720	\$1,194,700	\$741,934
	13	Oct-20						\$0	\$2,590	\$1,194,700	\$744,524
	14	Nov-20						\$0	\$0	\$1,194,700	\$744,524
Restart Feasibility Study	15	Dec-20						\$0	\$16,798	\$1,194,700	\$761,322
	16	Jan-21						\$0	\$0	\$1,194,700	\$761,322
	17	Feb-21						\$0	\$0	\$1,194,700	\$761,322
	18	Mar-21						\$0	\$0	\$1,194,700	\$761,322
	19	Apr-21						\$0	\$0	\$1,194,700	\$761,322
	20	May-21						\$0	\$0	\$1,194,700	\$761,322
Schematic Design	21	Jun-21						\$0	\$2,400	\$1,194,700	\$763,722
	22	Jul-21						\$0	\$69,318	\$1,194,700	\$833,040
	23	Aug-21						\$0	\$0	\$1,194,700	
	24	Sep-21						\$0	\$0	\$1,194,700	
	25	Oct-21						\$0	\$0	\$1,194,700	
	26	Nov-21						\$0	\$0	\$1,194,700	
	27	Dec-21						\$0	\$0	\$1,194,700	
		Subtotal for FS/ SD	\$305,300	\$889,400	\$0			\$1,194,700			



Town of Concord Concord Middle School Estimated Project Cash Flow Graph





THANK YOU

Next meeting August 5, 2021

