FULLER MIDDLE SCHOOL FEASIBILITY STUDY

School Building Committee Meeting April 24, 2018



On April 10, 2018 the Project received a formal height variance from the ZBA to build up to 55' high (including mechanical penthouse). This means all options A, B, C, and D can conform to zoning.

Recommendations from Sandy Hook Advisory Commission Final Report

<u>General:</u>

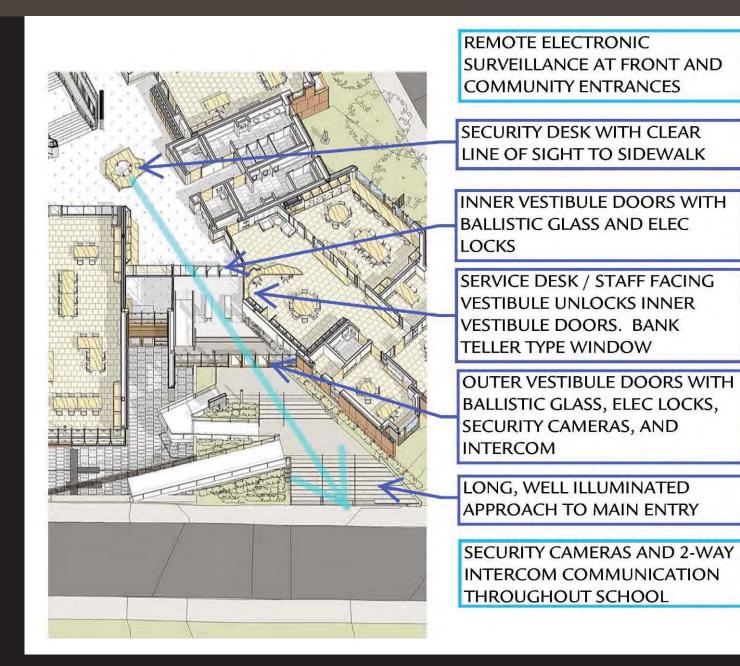
The fundamental purpose of our schools is to educate our children and, therefore, that proposed security options must enhance, not diminish that educational experience. Schools should be great places to learn, not just because they are safe and the educational process is uninterrupted, but because the physical design of schools facilitates, excites and engenders interactions between students, teachers, and staff, the spaces they are in and the world around them.



<u>Entrances</u>

- Main entrances shall be well lit and unobstructed to allow for natural and/or electronic surveillance at all times.
- The design shall allow for visitors to be guided to a single control point for entry.
- Doors using laminated glass and/or polycarbonate to significantly improve forced entry delay time beyond standard glazing techniques.
- Main entrance doors shall be capable of being secured from a central location, such as the central administrative office and/or the school security office.
- Install a panic/duress alarm or call button at an administrative/security desk as a protective measure.

Sample Fortified School Entry – Dearborn School



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<u>Classrooms</u>

- All classrooms shall have two-way communications with the administrative office
- Classroom doors shall be easily lockable and unlocked from the inside
- Provide means to conceal window views during lockdown

<u>Training:</u>

Provide safety and security training for faculty, staff, and students











Preliminary Cost Analysis (PDP Phase)

	REPAIR TO CODE BASELINE	ADD/RENO	NE	W CONSTRUCTI	ON
	Option 0.0	Option A	Option B.2 Tree Branch	Option C.2 Folded Hands	Option D Butterfly
\$Million		With Auditorium	With Auditorium	No Auditorium	No Auditorium
Swing Space Cost	\$6	\$6	\$0	\$0	\$0
Order of Magnitude Project Cost	\$125	\$114	\$95	\$89	\$89
MSBA Share	\$0	\$49	\$40	\$41	\$41
Framingham Share	\$131	\$71	\$55	\$48	\$48

PROJECT MANAGEMENT

Preliminary Cost Analysis (Progress PSR Phase)

	REPAIR TO CODE BASELINE	ADD/RENO			NEW CONS	TRUCTION		
	Option 0.0	Option A	Ē	tion 3 Branch		tion C Hands	. i	tion D terfly
\$Million		With Auditorium	With Auditorium	With Auditorium & Larger Gym	With Auditorium	With Auditorium & Larger Gym	With Auditorium	With Auditorium & Larger Gym
Swing Space Cost	\$6	\$2	\$0	\$0	\$0	\$0	\$0	\$0
Order of Magnitude Project Cost	\$131	\$119	\$111	\$112	\$111	\$112	\$112	\$113
MSBA Share	\$0	\$47	\$45	\$44	\$45	\$44	\$45	\$45
Framingham Share	\$131	\$72	\$66	\$68	\$66	\$68	\$67	\$68

PROJECT MANAGEMENT

Changes from PDP to Progress PSR

	Option B	Option C	Option D
Auditorium	\$3M	\$10M	\$10M
Site Work	\$7M	\$7M	\$7M
Building Demolition	\$1M	\$1M	\$1M
Building Cost	\$5M	\$4M	\$5M
TOTAL	\$16M	\$22M	\$23M

PROJECT MANAGEMENT

Changes from PDP to Progress PSR

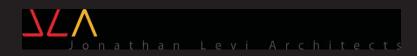
	Option B	Option C	Option D
Space Categorization Correction	\$2M	\$2M	\$2M
Auditorium	\$1M	\$7M	\$7M
Site Work	\$6M	\$6M	\$6M
Building Cost	\$2M	\$3M	\$4M
TOTAL	\$11M	\$18M	\$19 M

PROJECT MANAGEMENT

MSBA Middle School Construction Cost Comparisons

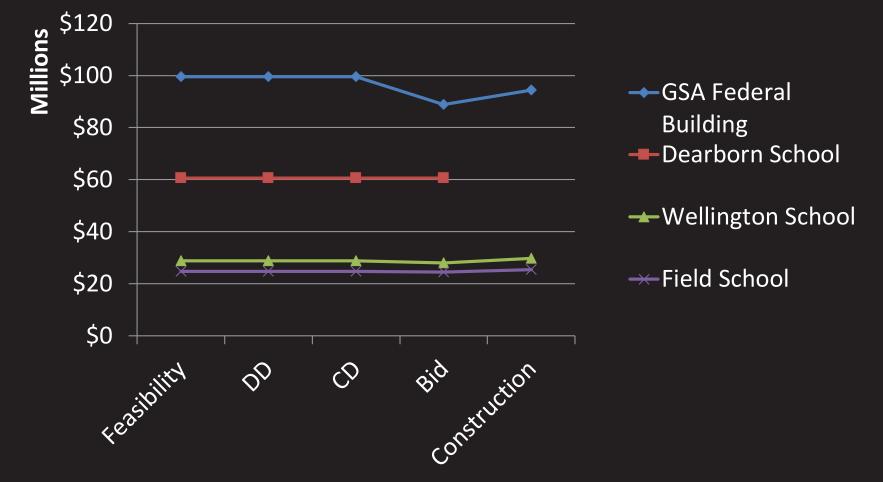
Town	GSF	Year Start Constr	Escalation Years to 2020	Approximate Escalation @ 3.5%/Year	Escalated Total Construction Cost	Escalated Building Construction Cost/ SF	Escalated Total Construction Cost/ SF
Auburn	100,395	2014	6	21%	\$42,924,750	372	428
Scituate	164,803	2015	5	18%	\$72,826,500	391	442
Beverly	231,509	2015	5	18%	\$105,901,575	403	457
Chelsea	115,235	2015	5	18%	\$54,104,050	407	470
Lynn	181,847	2014	6	21%	\$81,947,250	422	451
Natick	182,195	2019	1	3%	\$90,624,486	428	497
Fuller	157,010	2020	0	0%	\$87,050,542	433	554
West Lynn MS	185,444	2018	2	7%	\$89,335,370	453	482
Quincy	95,732	2017	3	11%	\$51,438,855	454	537
Lynn Pickering MS	131,295	2018	2	7%	\$71,362,580	474	544
Boston	115,236	2015	5	18%	\$70,789,050	534	614

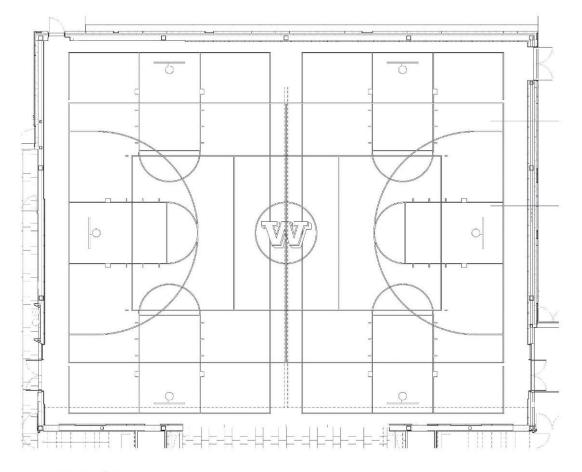




Cost Control

Track Record – Feasibility through Construction Completion



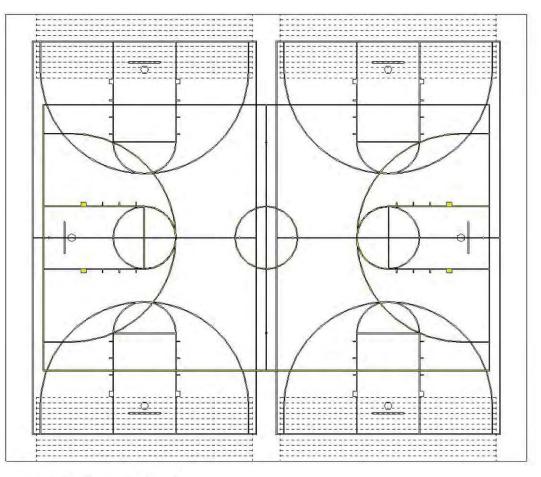


<u>6,500 sf Gym</u>

- I Center High School basketball court (84' x 50')
- > 2 side by side undersized basketball courts (70' x 39' vs 74' x 42')
- > 300 bleacher seats



Gym Size



Large Gym 8,300 sf

- I Center High School basketball court (84' x 50')
- > 2 Side by Side Middle School basketball courts (74' x 42')
- > 640 bleacher seats

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OFFICE GUIDANCE	OFFICE DEPT	OFFICE DEPT
ST	GUIDANCE WAITING	
OFFICE GUIDANCE		ACHER RKROOM

ADMIN A

OFFICE GUIDANCE	OFFICE DEPT	OFFICE DEPT
ST	GUIDANCE WAITING	
	TEAC	

ADMIN B

OFFICE GUIDANCE	OFFICE DEPT	OFFICE DEPT
ST	BUIDANCE WAITING	
OFFICE GUIDANCE	TEAC WORK	

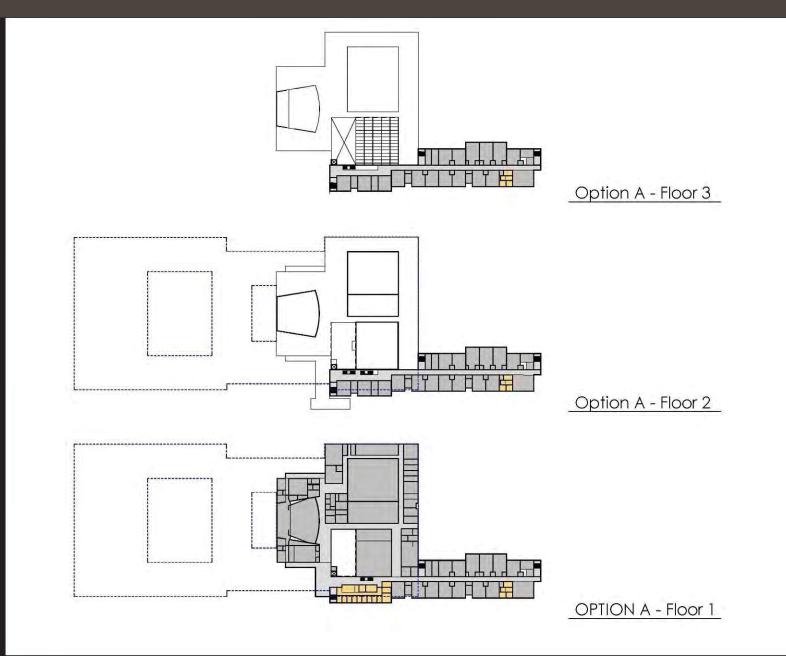
ADMIN C

SATELLITE ADMIN AREAS

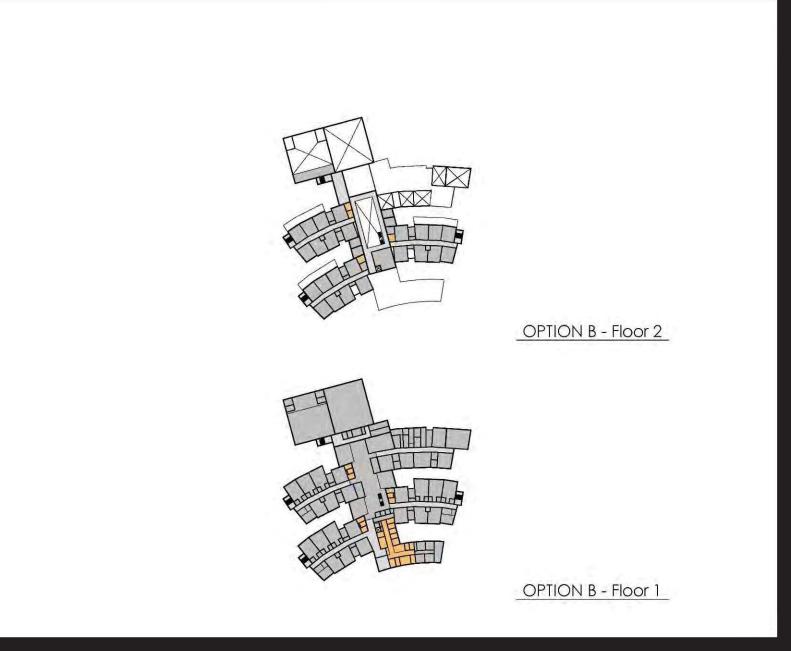
LEGEND Included in MSBA Guidelines

Additional STEM program areas

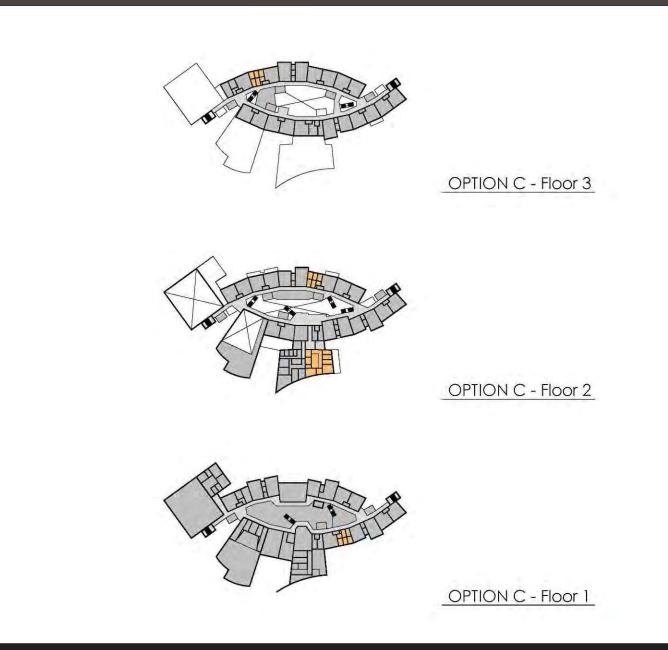


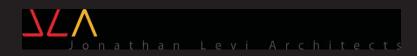


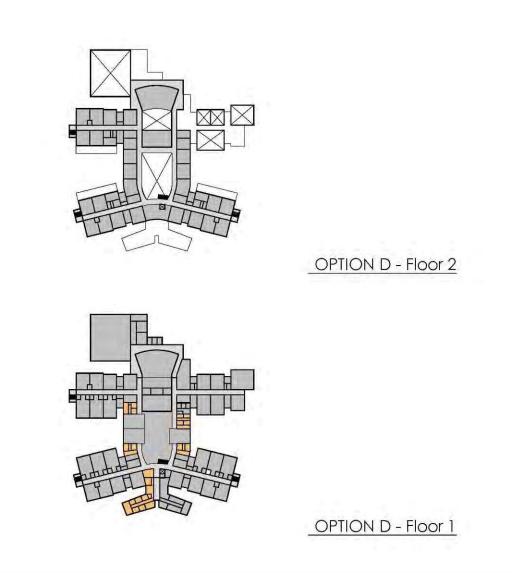






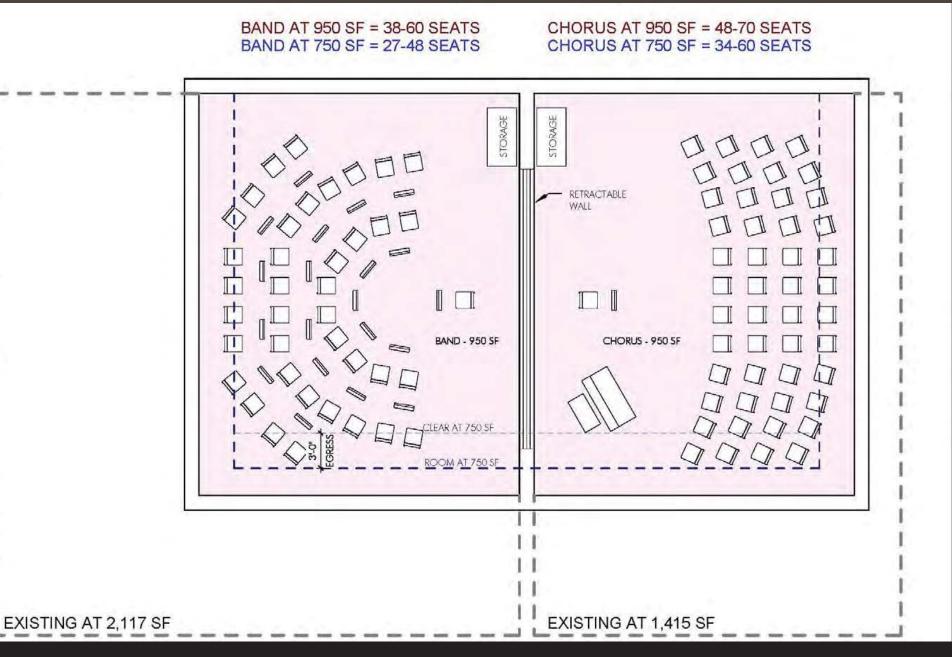








Music Areas



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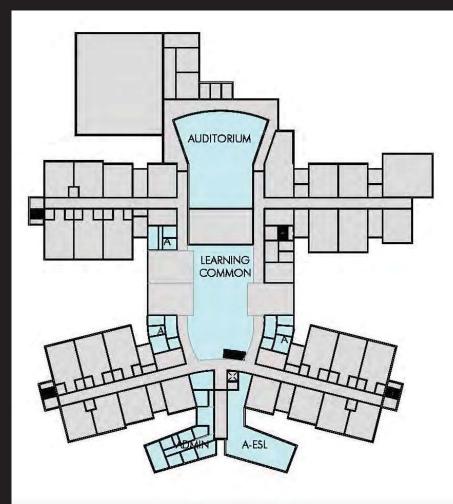
Air Conditioned Spaces:

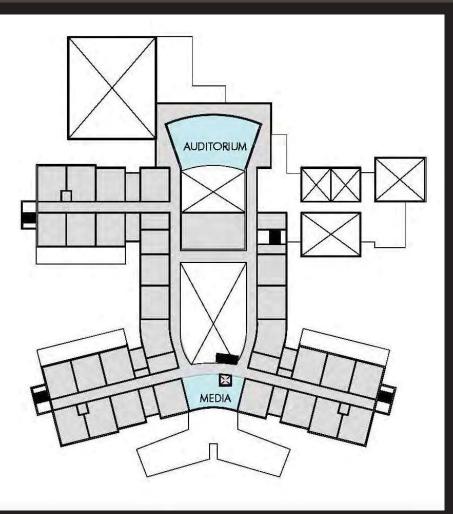
- Maintains inside temperature at 75°F, 50% humidity;
- Comfortable all year;
- Typically used at a minimum in Auditorium, Cafeteria, Administrative Spaces, and Media Center.

Dehumidified Spaces:

- Reduced Construction Costs;
- For rooms not typically used in the summer;
- Temperature floats within comfort zone; typically maximum 80°F;
- Starts to become uncomfortably warm when outdoor temperature goes above 88°F.

Air Conditioned Areas - Base





Base, 45,000 gsf

