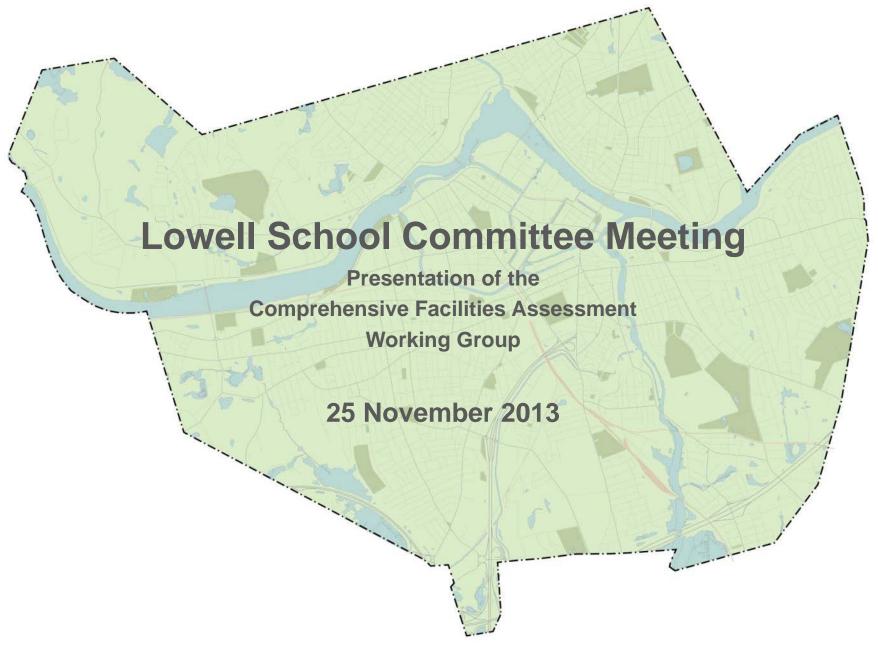
# **Lowell Public Schools**

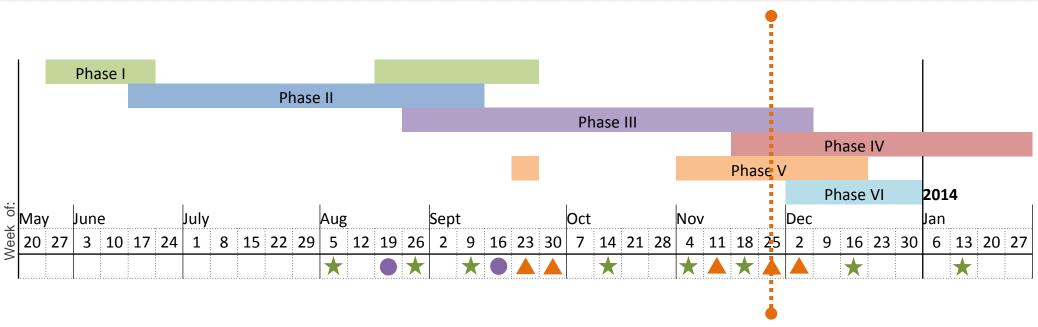


omrarchitects

### Agenda



### **Project Schedule**



Late May: Work of contract began

Phase I: Establish goals & enrollment projections

Phase II: Assess existing building conditions

Phase III: Develop Master Plan options for PK-8 schools and high school

Phase IV: Prepare draft and final reports

Phase V: Community presentations

Phase VI: Massachusetts School Building Authority SOI assistance

• Jan. 2014: Work of contract ends



### FINAL Goals, Values & Objectives for the Master Plan Study

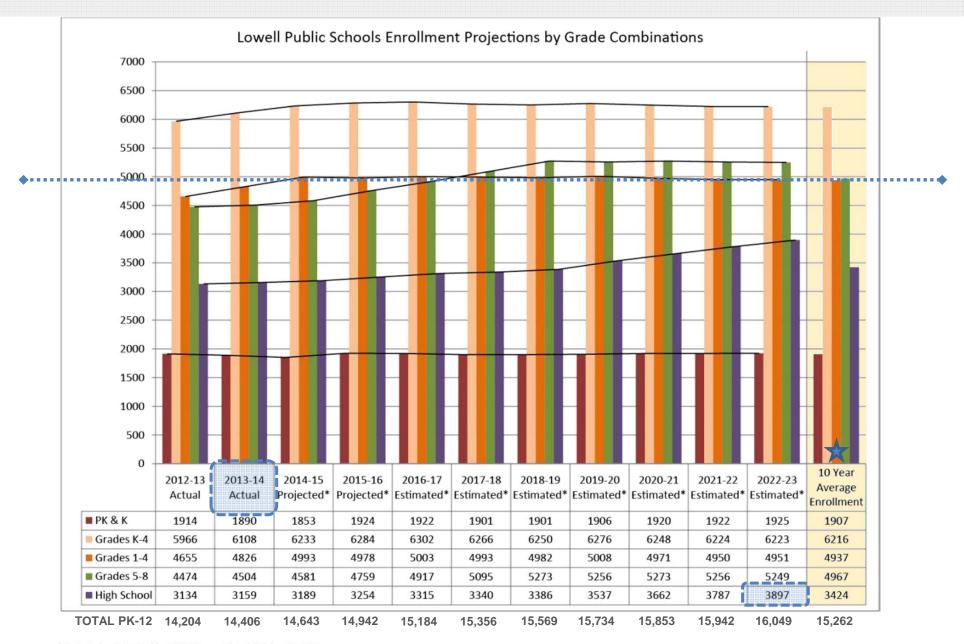
#### **OPERATIONAL ORGANIZATION**

- 1. Use NESDEC's 10 year, projected, average enrollment for all schools, plus 15 swing classes in grades 1-8.
- 2. Provide for the preferred class sizes of 20-22 at elementary, 22-24 at middle and under 25 at high school.
- 3. Provide for the preferred school strand sizes of four at elementary schools, six at middle schools and two at Washington, Moody and K-8 schools.
- Consider providing one or multiple Early Childhood Centers for Universal, half day, Pre-K in the Lowell school system.
- Consider restructuring the current grade configuration to be: K-5, 6-8, and 9-12, while maintaining 2 or more K-8 schools.
- 6. Provide classroom space to allow more special needs students to remain in the Lowell school system.
- 7. Consider sustainability and life cycle operating costs in all budgetary decisions.
- 8. Provide a clear plan to resolve the immediate repair and maintenance needs in a timely manner.
- 9. Educate the City on the **need for ongoing investment in** the current facilities.

#### PHYSICAL SPACE & FEATURES

- 1. Family value in education is important: Schools should be designed to **create a strong partnership with families**.
- Provide more dedicated space for Special Education instruction at each neighborhood school.
- 3. Consider **multiple Lowell High School location options**, including two similar schools under one roof.
- Retain Washington and Moody and upgrade to provide parity in amenities as compared to other neighborhood schools.
- Resolve classroom overcrowding while providing dedicated educational and support spaces at each school per current MSBA guidelines.
- Provide 21<sup>st</sup> century-style, flexible spaces for the development of critical thinking, creative problem solving, independent learning, and student and teacher collaboration at each school.
- Safety and Security is a priority: Provide main offices at all front lobbies, security cameras, secure entry hardware, and functioning lockers.
- Upgrade and improve technology to meet 21<sup>st</sup> century educational needs, supporting a wireless network and an environment for 1-to-1 student devices for shared, interactive content.
- 9. Upgrade Alternative Schools to meet the other neighborhood school standards.

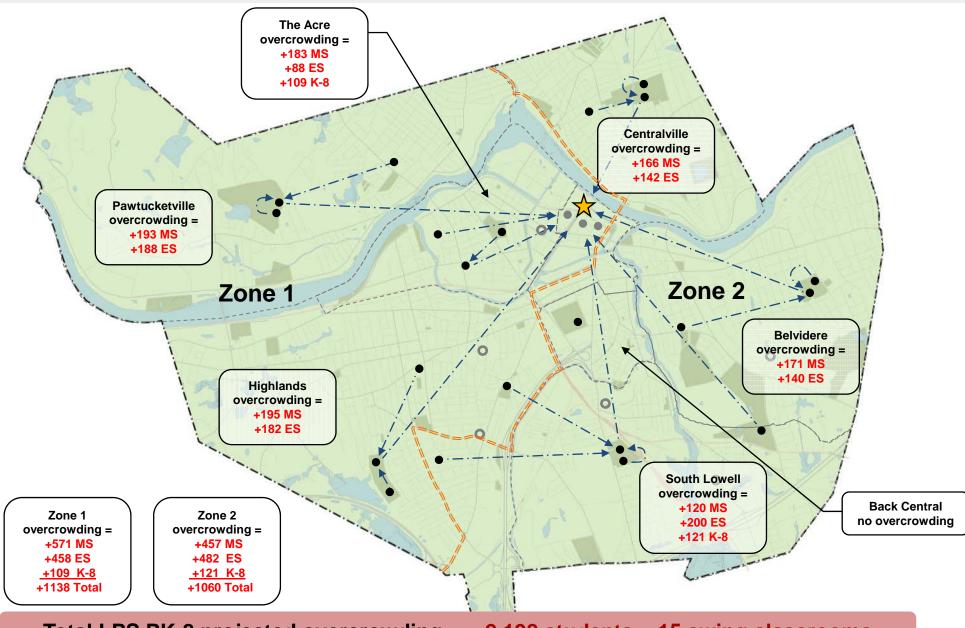
### Final Enrollment Projections by Grades



<sup>\*</sup> Projected or Estimated by NESDEC report dated October 30, 2013

= 10 year average enrollment

### PK, Elementary, K-8 & Middle School – Projected Overcrowding



Total LPS PK-8 projected overcrowding = +2,198 students + 15 swing classrooms

### **Central Objectives**

We know that there is a need for ongoing investment in the current Lowell Public School facilities to address deferred repair and maintenance needs...

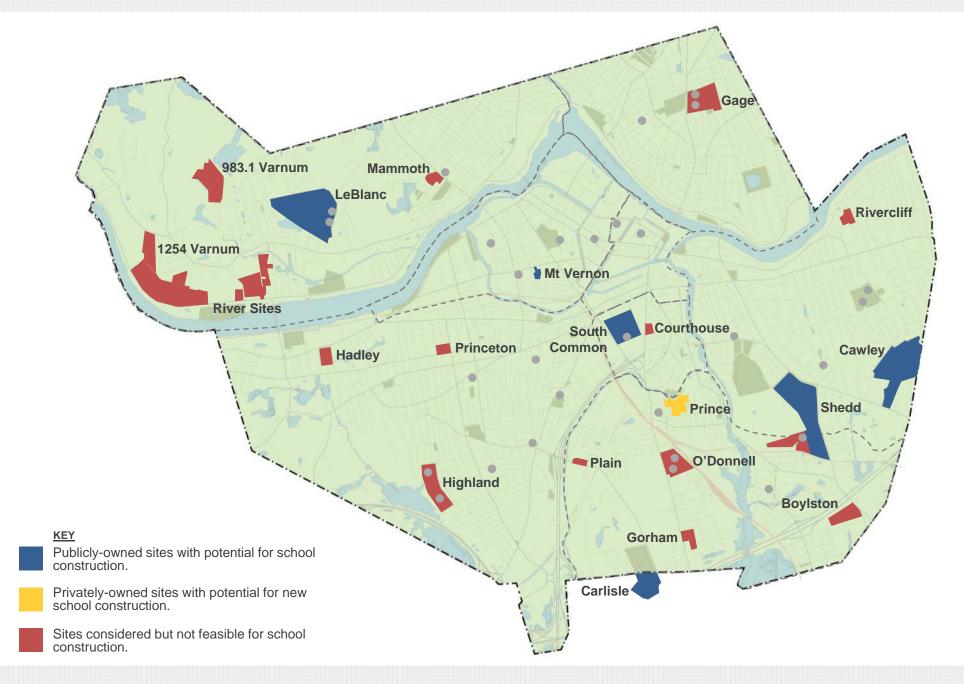
How should the current and future overcrowding of over 2,500 students in grades PK thru 8 be addressed by the City of Lowell?

How should the needs of the high school students be addressed by the City of Lowell?

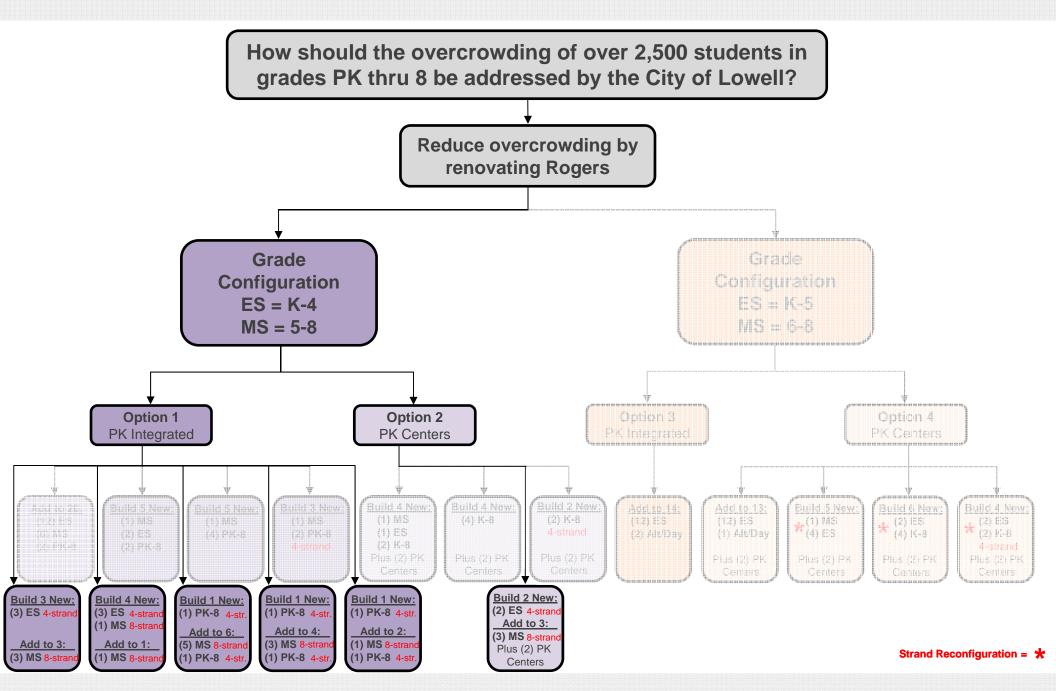
### Agenda



# PK, Elementary, K-8 & Middle School – UPDATED Site Opportunities

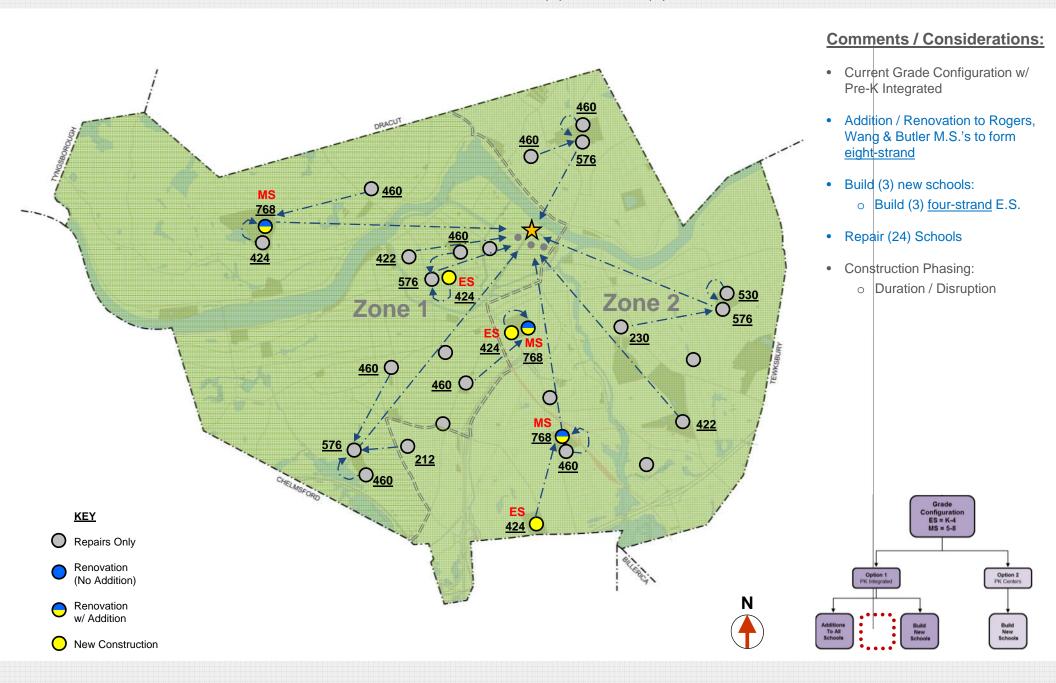


# LPS Master Planning Decision Matrix (excluding High School)



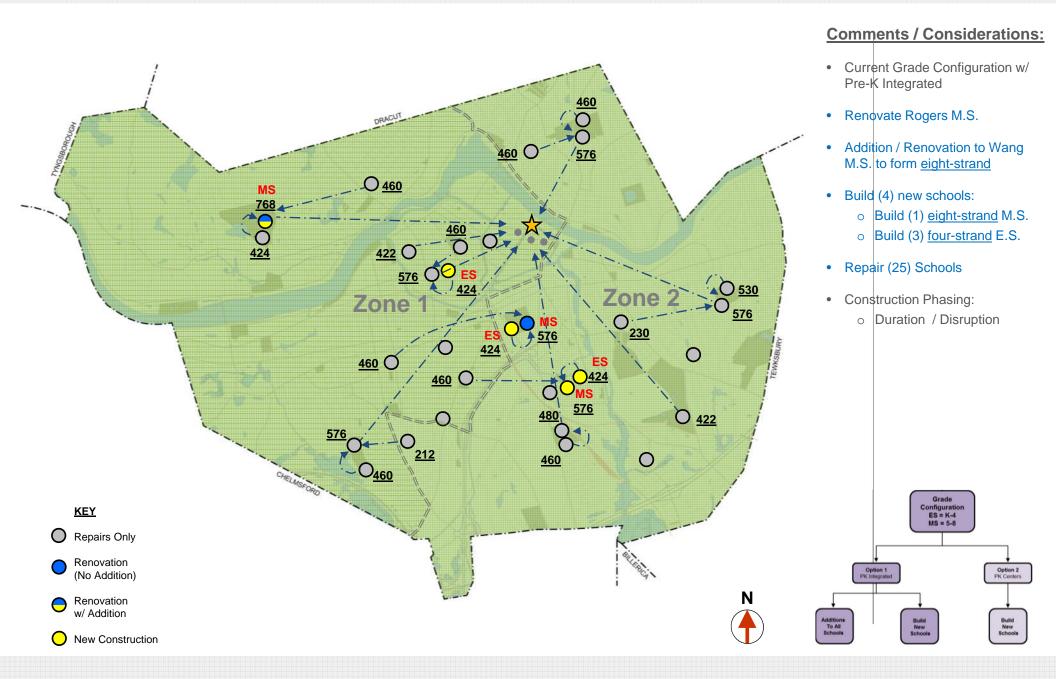
### Option 1E:

### Additions + Renovations to (3) MS, Add (3) New ES



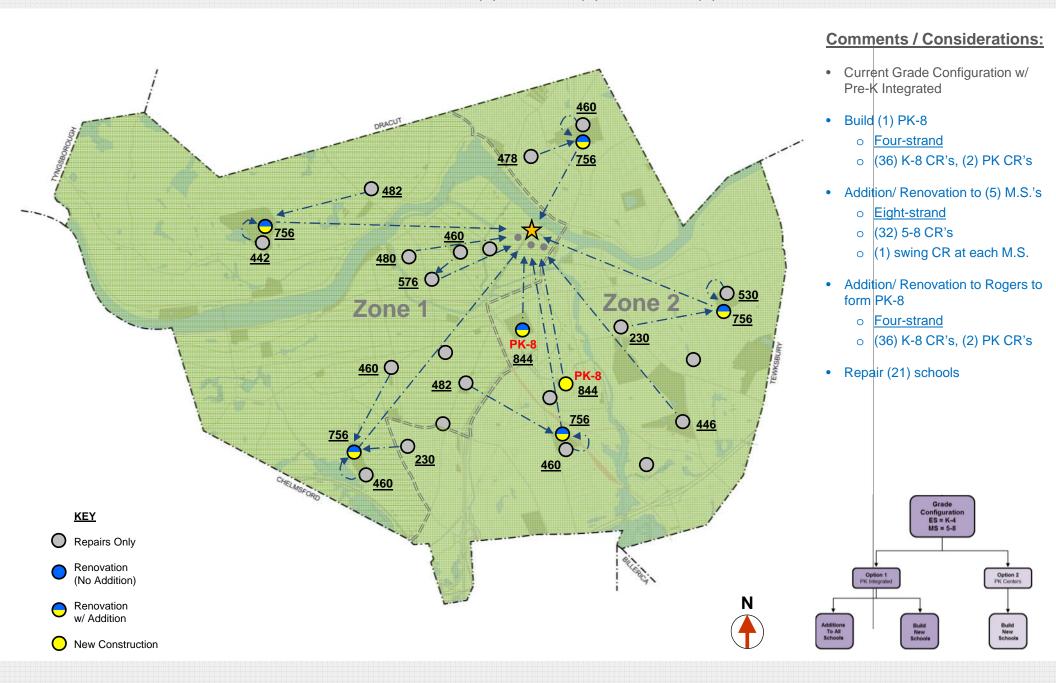
### Option 1F:

### Additions + Renovations to (1) MS, Add (1) New MS & (3) New ES



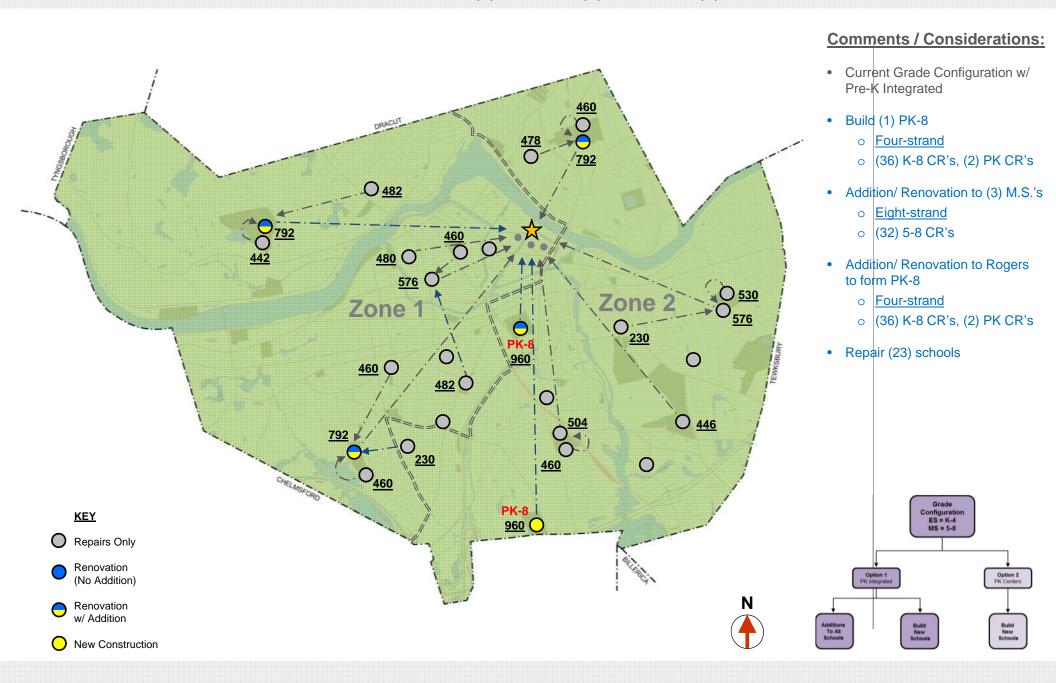
### Option 1G:

Additions + Renovations to (5) M.S.'s & (1) PK-8, Add (1) New PK-8



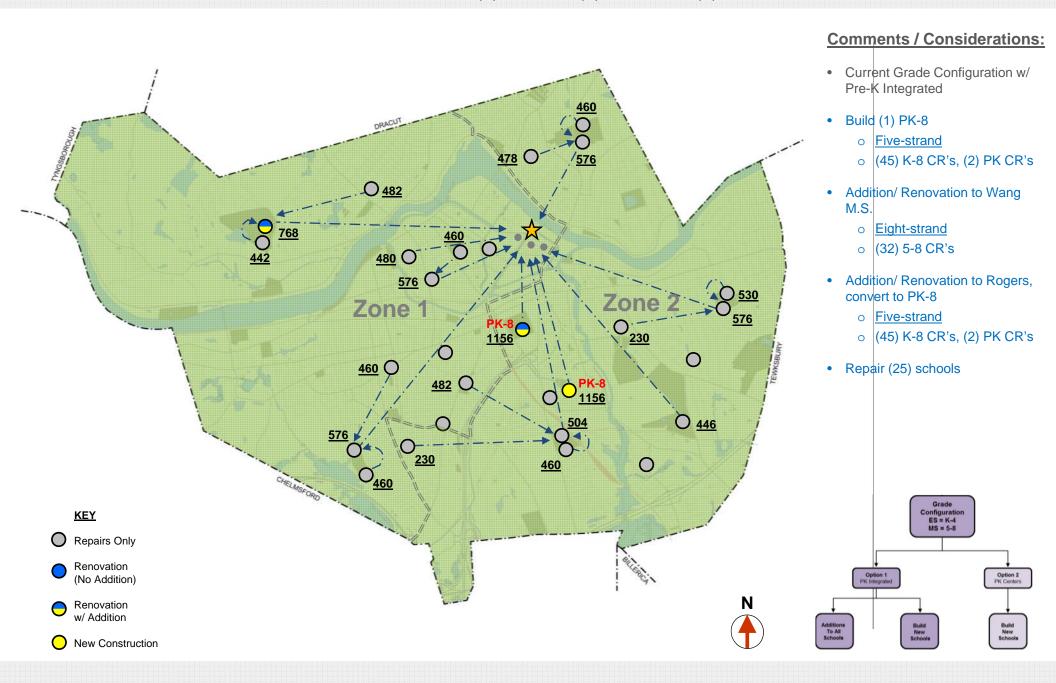
### Option 1H:

Additions + Renovations to (3) M.S.'s, & (1) PK-8, Add (1) New PK-8



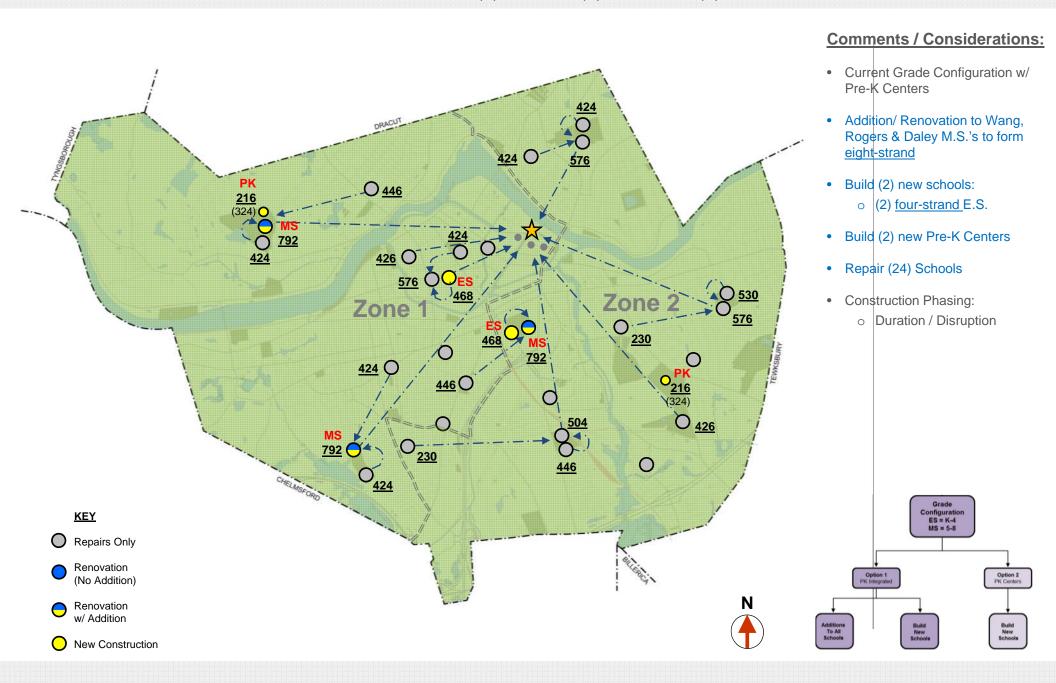
### Option 1J:

Additions + Renovations to (1) M.S.'s & (1) PK-8, Add (1) New PK-8



### Option 2D:

### Additions + Renovations to (3) MS, Add (2) New ES & (2) New PK's



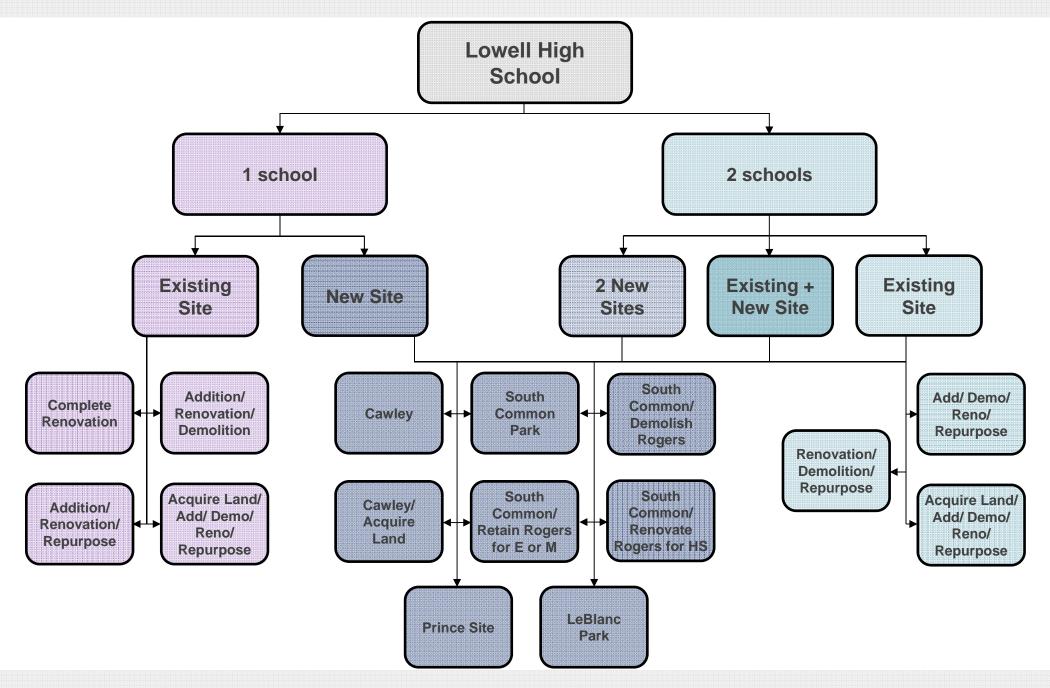
# LPS Master Planning Cost / Value Options (excluding High School)

Key			Notes		New	F	Addition	Re	novation		Repair		Tota	al l	Values						
+ 0			<ul> <li>Dollar values are shown in millions (M).</li> <li>Costs do not include escalation or land acquisition.</li> <li>Options include Alt, Day, &amp; AEC school repair const. costs of approx. \$17.6 M.</li> </ul>	# of Buildings	Construction Cost	# of Buildings	Construction Cost	# of Buildings	Construction Cost	# of Buildings	Cost	# of Buildings	Construction Cost	Project Cost (1.25 Multiplier)	21st C. Educ. Spaces/	MSBA Prog Regs Sustainability / Energy	Efficiency Minimal Phasing /	Disruption	Expandability	Minimal Project Cost	Site Location & Availability
			on 1A ons & Renos to All ES. MS, & K-8 schools			20	\$86.2IVI	21	\$179.7M	6	\$18.0M	27	\$312.0M	\$390.0M		+					
		Optio	on 18 1) MS. (2) ES. (2) PK-8 schools	-5	\$134.7M			1	\$12.1M	26	\$103.6M	32	\$250.4M	\$313.0M	C	) (	)	0	0	0	
		Optio	on 1C LES (4) PK-8 two-strand schools	- 5	\$132.9M			1	\$12.1M	26	\$103.6M	32	\$248.6M	\$310.8M	C	) (	)	0	0	0	-
5	ated		n 1D I) ES, (2) PK-8 four-strand schools	- 3	\$107.8M			1	\$12.1M	26	\$103.6M	30	\$223.5M	\$279.4M		) -		+	+	4	0
Grade Configuration (K-4, 5-8)	PK Integrated	Optio		3	\$68.4M	3	\$9.9M	3	\$45.0M	24	\$97.5M	30	\$220.8M	\$276.0M	C	) (	)	0	0	+	-
onfig 8)	PK	Optio Additio	on 1F ons & Renos to (1) MS, Add (1) MS, (3) ES	4	\$102.5M	1	\$3.3M	2	\$13.9M	25	\$100.8M	31	\$220.6M	\$275.8M		) (	)	0	0	+	-
de Con 4, 5-8)		Optio		1	\$34.3M	6	\$33.1M	6	\$74.0M	21	\$73.3M	28	\$228.2M	\$289.5M	C	) -	-	+	+	+	0
Grade (K-4.		Optio	on 1H ons & Renos to (3) MS + (1) PK-8, Add (1) PK-8	_ 1	\$36.7M	4	\$39.1M	4	\$59.4M	23	\$83.3M	28	\$218.3M	\$277.1M	C	) -	-	+	+	+	+
Existing (		Optio		1	\$45.1M	2	\$31.5M	2	\$30.7M	25	\$98.9M	28	\$207.4M	\$259.3M			-	+	+	+	0
Ĕ			on 2A () ES. (1) MS. (2) K-8 two-strand schools, (2) PK's	- 6	\$137.2IVI			- 1	\$12.1M	26	\$103.6M	33	\$252.9M	\$316.1W				0		0	
	Separate PK Centers	Ontio		6	\$136.0M			1	\$12.1M	26	\$103.6M	31	\$251.71VI	\$314.6W	(	) (	)	0	0	0	
	parate	Optio	nn 2C 2) K-8 four-strand schools, (2) PK's	- 4	\$113.9W			- 1	\$12.1M	26	\$103.6M	31	\$229.6IV	\$287.0IVI	(	)		7	+-	4-	0
	တိ	Optio		4	\$74.0M	3	\$9.0M	3	\$45.3M	24	\$73.3M	31	\$218.5M	\$277.3M	(	) H	-	+	+	+	-
ation	포 <u>두</u>	Optio				14	\$83.2W	- 15)	\$97.4M	12	\$214.71VI	27	\$247.5M	\$309.4M						O	
nfigura 6-8)	Ž		n 4A ons & Renos to All ES's & (1) Alt school, (2) PK's	2	\$29.1M	13	\$58.5M	14	\$94.2M	13	\$47.4M	29	\$248.9M	\$311.1M					-	0	-
Grade Reconfiguration (K-5, 6-8)		Ontio	on 4B 5) ES & (2) PK's	7	\$139.3M			1	\$12.1M	26	\$103.6M	35	\$255.0M	\$318.8M	-1	- (	)	0	0	0	-
용장	eparate Centers	Optio Add (1		7	\$158.8M			1	\$12.1M	26	\$103.6M	34	\$274.5M	\$343.1M	C	) (	)	0	0	-	_
Gra	ري آ	Optio	on 4D I) ES & (2) K-8 four-strand, (2) PK's	- 5	\$136.7M			1	\$12.1M	26	\$103.6M	32	\$252.4M	\$315.5M	C	) -		0	+	0	0

### Agenda

- Schedule, Objectives & Underlying Principles
  - PK 8 Master Planning Update
  - LHS Alternative Option Cost / Value Chart
    - 10 Year Capital Planning Framework

### Lowell High School Master Planning Decision Matrix



# Lowell High School Master Planning Cost / Value Options

Key			GSF		New	P	ddition	Re	novation		Repair		Tota	ıl			Val	ues		
0	Positi Neutr Nega	ral	Total GSF	# of Buildings	Cost	# of Buildings	Cost	# of Buildings	Cost	# of Buildings	Cost	# of Buildings	Construction Cost	Project Cost	21 <sup>st</sup> C. Educ. Spaces/	Sustainability / Energy	Minimal Phasing / Disruption	Expandability	Minimal Project Cost	Site Location & Availability
		Option 1A 1 School - Major Repair/Minor Renovation	630,000					1	\$29.6M	2	\$48.9M	3	\$78.5M	\$98.1M	-	-	-	-	+	+
<u> </u>	Site	Option 1B 1 School - Full Renovation	630,000					3	\$121.6M			3	\$121.6M	\$152.0M	-	-	-	-	+	+
One 3900 Student School	Existing Si	Option 1C 1 School - Renovation/Addition - w/o Freshman Academy Building	650,000		_	1	\$46.1M	1	\$103.7M			2	\$149.8M	\$187.3M	0	0	-	_	+	+
0 Stude	Exi	Option 1D 1 School - Lowell Downtown Evolution Plan (LDEP)	650,000			1	\$134.1M	1	62.2M			2	\$196.3M	\$245.4M	+	0	-	-	0	+
ne 390		Option 1E 1 School - LDEP Alternative Design Concept	650,000			1	\$134.1M	1	62.2M			2	\$196.3M	\$245.4M	+	0	-	-	0	+
ō	Site	Option 2A New 1 School - Cawley Site	650,000	1	\$232.4M							1	\$232.4M	\$290.5M	+	+	+	О	-	0
	New	Option 2B New 1 School - South Common**	650,000	1	\$234.1M							1	\$234.1M	\$292.6M	+	+	+	0	-	0
slo	Site	Option 3 1/2 School - Existing Site*	331,000			1	\$35.0M	1	\$48.6M			2	\$83.6M	\$104.5M	0	0	0	0	0	+
1950 Student Schools (Select Two)		Option 4A New 1/2 School - Cawley Site	331,000	1	\$118.4M							1	\$118.4M	\$198.0M	+	+	+	0	-	0
Student Sch (Select Two)	New Site	Option 4B New 1/2 School - South Common Site	331,000	1	\$118.4M							1	\$118.4M	\$198.0M	+	+	+	0	-	0
950 St (S <sub>1</sub>	New	Option 4C New 1/2 School - LeBlanc Park Site	331,000	1	\$118.4M							1	\$118.4M	\$198.0M	+	+	+	0	-	0
15		Option 4D New 1/2 School - Prince Site**	331,000	1	\$123.7M							1	\$123.7M	\$154.6M	+	+	+	О	0	-

Notes: - Green Adult Education Center not included in these cost options.

<sup>-</sup> Dollar values shown in millions (M).

<sup>-</sup> For new and addition schemes, Gross Square Footage (GSF) is calculated using MSBA avg. grossing factor of 1.45. Additional GSF has been included to account for LHS unique programs in addition to MSBA standard SF per student.

<sup>-</sup> Costs do not include escalation or land acquisition.

<sup>\*</sup> Repurpose existing Freshman Academy and 1892 Building.

<sup>\*\*</sup> Demolish existing building on site.

### Agenda





# **Reference materials**

### Building Space – Current Elementary, Middle & K-8 Schools

		NET	SF		GROS	SS SF		GROSSING	G FACTOR
LPS School	Current Enrollment	Existing NSA	MSBA NSA		Existing GSF	MSBA GSF		Existing Grossing Factor	MSBA Grossing Factor
Elementary Schools				-				_	
Bailey	505	42,514	52,030		64,697	78,822		1.52	1.51
Greenhalge	523	46,161	54,410		72,115	80,533		1.56	1.48
Lincoln	522	43,473	54,394		62,456	80,440		1.44	1.48
McAuliffe	508	43,322	52,076		63,655	79,113		1.47	1.52
McAvinnue	538	46,216	54,719		70,326	81,902		1.52	1.50
Moody	268	27,495	35,175		47,296	48,240		1.72	1.37
Morey	547	44,412	55,809		68,405	82,697		1.54	1.48
Murkland	523	42,937	54,410		62,050	80,533		1.45	1.48
Pawtucketville	524	50,934	54,426		78,424	80,626		1.54	1.48
Reilly	594	52,625	59,891		74,129	86,546		1.41	1.45
Shaughnessy	530	42,290	54,594		63,918	81,178		1.51	1.49
Washington	266	22,180	35,160		36.432	47.880		1.64	1.36
				ľ	763,903	908,510	H		
Middle Schools				<b>\</b>					
Butler	551	62,877	65,130		96,572	97,558		1.54	1.50
Daley	681	68,116	77,008		111,810	112,988		1.64	1.47
Robinson	655	69,938	75,621		99,181	110,134		1.42	1.46
Stoklosa	671	70,457	76,840		105,465	111,904		1.50	1.46
Sullivan	660	64,092	75,705		97,213	110,691		1.52	1.46
Wang	679	62,506	76,975	,_	93.864	112,772	Į,	1.50	1.47
14.0				i_	604,105	656,047	Įi.		
K-8	F40	F2 000	CC 1.11		05 500	00.044		1.00	4.50
Bartlett	542	52,999	66,141		95,586	99,211		1.80	1.50
Pyne Arts	520	53,864	64,722	<b>!</b> -	78,963	97,083	tı.	1.47	1.50
				<u> </u>	174,549	196,294	Щ	Delta = (-) 21	8,294 GSF

#### Based on current enrollment conditions:

- 1. Elementary schools are 3,500 13,000 NSF less than MSBA guidelines; 1,000 18,000 GSF less.
- 2. Middle schools are 2,500 14,000 NSF less than MSBA guidelines; 1,000 20,000 GSF less.
- 3. K-8 schools are 11,000 13,000 NSF less than MSBA guidelines; 4,000 18,000 GSF less.

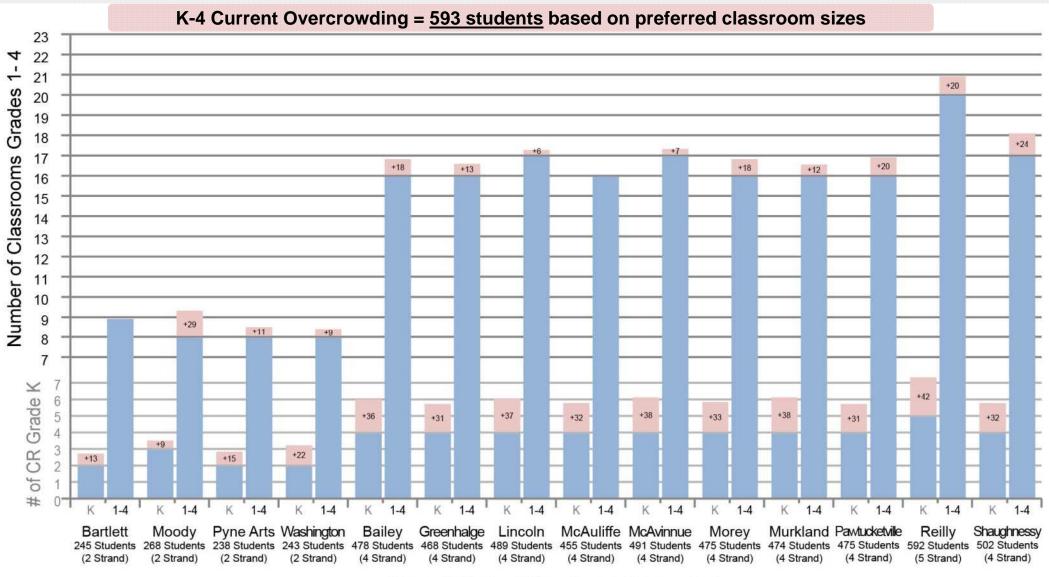
# Current Educational Programming – Elementary Schools NSF

Enrollment  CORE ACADEMIC	Net SF LPS Existing Program MSBA Guidelines	505 19,641 21,900	523 21,239 22,850	522 22,241 22,850	9 WCV 508 21,130 21,900	97000000000000000000000000000000000000	₹600 ₩ 268 13,142 11,900	547 20,596 23,800	Dunkkland 523 21,084 22,850	524 19,133 22,850	594 26,171 25,950	524 19,987 22,850	266 9,728 11,900	4,714 236,189 254,450	Comments & Considerations of existing buildings relative to MSBA guidelines  PreK CR replaced 2 core CR on avg per school creating deficiency. More than 1/2
SPECIAL	Delta - SF  Existing Program	(2,259) 90% 3,669	(1,611) 93% 5,605	(609) 97% 4,424	(770) 96% 4,227	(753) 97% 5,553	1,242 110% 1,363	(3,204) <b>87%</b> 4,238	(1,766) 92% 3,624	(3,717) <b>84%</b> 6,587	221 101% 6,321	(2,863) <b>87%</b> 4,888	(2,172) <b>82%</b> 3,757	(18,261) 93% 54,256	have CR not meeting MSBA min NSF.  SPED programs lack parity between
EDUCATION	MSBA Guidelines Delta - SF	6,040 (2,371) 61%	6,040 (435) 93%	6,040 (1,616) 73%	6,040 (1,813) 70%	6,040 (487) 92%	3,020 (1,657) 45%	6,040 (1,802) 70%	6,040 (2,416) 60%	6,040 547 109%	6,040 281 105%	6,040 (1,152) 81%	3,020 737 124%	66,440 (12,184) <b>82%</b>	schools. Most CR undersized. Most don't have bathrooms for SPED use only.
ART & MUSIC	Existing Program  MSBA Guidelines  Delta - SF	1,888 2,575 (687) 73%	2,032 3,725 (1,693) 55%	1,900 3,725 (1,825) 51%	2,398 2,575 (177) 93%	2,342 3,800 (1,458) 62%	1,419 2,500 (1,081) 57%	2,206 3,800 (1,594) 58%	2,028 3,725 (1,697) 54%	2,540 3,725 (1,185) 68%	1,990 5,000 (3,010) 40%	909 3,800 (2,891) 24%	1,527 2,500 (973) 61%	23,179 41,450 (18,271) <b>56%</b>	MSBA allocates two art vs. one at Lowell.  Some missing music CR & practice rooms. Spaces too small.
HEALTH & PHYSICAL ED	Existing Program  MSBA Guidelines  Delta - SF	5,190 6,300 (1,110) 82%	6,187 6,300 (113) 98%	5,312 6,300 (988) 84%	5,185 6,300 (1,115) 82%	5,192 6,300 (1,108) 82%	4,772 6,300 (1,528) 76%	5,486 6,300 (814) 87%	5,164 6,300 (1,136) 82%	6,411 6,300 111 102%	7,328 6,300 1,028 116%	5,155 6,300 (1,145) 82%	1,237 6,300 (5,063) 20%	62,619 75,600 (12,981) <b>83%</b>	Many of the gyms are undersized by MSBA standards. Is this space suitable for school's needs?
MEDIA CENTER	Existing Program  MSBA Guidelines  Delta - SF	1,419 2,943 (1,524) 48%	1,424 3,024 (1,600) 47%	1,374 3,019 (1,645) 46%	1,629 2,956 (1,327) 55%	1,903 3,091 (1,188) 62%	932 2,020 (1,088) 46%	2,226 3,132 (906) 71%	1,219 3,024 (1,805) 40%	2,040 3,028 (988) 67%	1,475 3,343 (1,868) 44%	1,097 3,055 (1,958) 36%	975 2,020 (1,045) 48%	17,713 34,653 (16,940) <b>51%</b>	All have media centers but undersized. Consider 21st century learning commons when updating space.
DINING & KITCHEN	Existing Program  MSBA Guidelines  Delta - SF	4,703 7,187 (2,484) 65%	4,553 7,351 (2,798) 62%	4,707 7,341 (2,634) 64%	4,552 7,214 (2,662) 63%	4,744 7,487 (2,743) 63%	3,017 5,010 (1,993) 60%	5,314 7,569 (2,255) 70%	4,610 7,351 (2,741) 63%	5,776 7,360 (1,584) 78%	5,446 7,995 (2,549) 68%	4,979 7,414 (2,435) 67%	1,025 4,995 (3,970) 21%	53,426 84,273 (30,847) <b>63%</b>	Overall cafetoriums are undersized including the stage and storage areas.
MEDICAL	Existing Program  MSBA Guidelines  Delta - SF	350 610 (260) 57%	245 610 (365) 40%	194 610 (416) 32%	291 610 (319) 48%	270 610 (340) 44%	89 510 (421) 17%	454 610 (156) 74%	196 610 (414) 32%	354 610 (256) 58%	488 610 (122) 80%	341 610 (269) 56%	150 510 (360) 29%	3,422 7,120 (3,698) <b>48%</b>	Generally nurses suites are undersized and do not account for separate exam and resting areas for students.
ADMIN & GUIDANCE	Existing Program  MSBA Guidelines  Delta - SF	2,907 2,370 537 123%	1,857 2,388 (531) 78%	1,710 2,387 (677) 72%	1,920 2,373 (453) 81%	2,033 2,403 (370) 85%	1,315 2,015 (700) 65%	1,742 2,412 (670) 72%	2,647 2,388 259 111%	2,823 2,389 434 118%	2,518 2,459 59 102%	2,154 2,395 (241) 90%	1,907 2,015 (108) 95%	25,533 27,994 (2,461) 91%	Admin area in most schools do not have support space, incl copy, mail, records rooms and offices/areas for secretaries.
CUSTODIAL & MAINT	Existing Program  MSBA Guidelines  Delta - SF	1,818 2,105 (287) 86%	1,483 2,123 (640) 70%	570 2,122 (1,552) 27%	1,136 2,108 (972) 54%	2,082 2,138 (56) 97%	1,446 1,900 (454) 76%	1,257 2,147 (890) 59%	1,206 2,123 (917) 57%	2,672 2,124 548 126%	888 2,194 (1,306) 40%	1,926 2,130 (204) 90%	1,874 1,900 (26) 99%	18,358 25,114 (6,756) <b>73%</b>	Most don't have custodial space required by MSBA but have an extra general storage area that could be repurposed.
OTHER	Existing Program	929	1,536	1,041	854	0	0	893	1,159	2,598	0	854	0	9,864	MSBA doesn't incl computer labs at elem.

# Current Educational Programming - Middle & K-8 Schools NSF

	Net SF	Butler	DALEY	Robinson	Stoklosa	Sullivan	Wang	Middle Total	Comments & Considerations of existing buildings relative to MSBA guidelines	Bartlett	Pyne Arts	K-8 Total	Comments & Considerations of existing buildings relative to MSBA guidelines
Enrollment	LPS	551	681	665	671	660	679	3,907		542	520	1,062	
CORE	Existing Program	20,593	20,858	28,276	26,633	23,291	24,590	144,241	A majority of the schools do not meet	21,909	19,220	41,129	PreK CR replaced one Kindergarten
ACADEMIC	MSBA Guidelines	26,850	31,480	30,530	31,480	30,530	31,480	182,350	MSBA requirements for number of	25,160	24,210	49,370	CR in each school creating greater
	Delta - SF	(6,257)	(10,622)	(2,254)	(4,847) 85%	(7,239)	(6,890) 78%	(38 109) <b>79%</b>	science labs and sm seminar rooms.	(3,251)	(4,990)	(8,241)	deficiency to number of CR/labs.
		77%	66%	93%		76%		1		87%	79%	83%	
SPECIAL	Existing Program	8,339 6.040	8,168	7,051	6,808	6,767	6,324	43,457	SPED programs vary between	4,736	7,652	12,388	Both schools do not MSBA
EDUCATION	MSBA Guidelines Delta - SF	2,299	7,550 618	7,550	7,550 (742)	7,550 (783)	7,550 (1,226)	43,790 (333)	schools, but all lack of bathrooms	7,050	7,050 602	14,100 (1,712)	requirements for number of SPED
	Dolla - Ol	138%	108%	93%	90%	90%	84%	99%	allocated to SPED students.	67%	109%	88%	CR & bathrooms.
ART &	Existing Program	5.849	4,928	2,044	5,445	3,812	3,794	25,872	NA	1,871	4,412	6,283	Art 0 Music OD are undersiced by
MUSIC	MSBA Guidelines	3,050	3,250	3.250	3,443	3,250	3,250	19,300	Most schools have more space than	5,550	5,550	11,100	Art & Music CR are undersized by
Wiosic	Delta - SF	2,799	1,678	(1,206)	2,195	562	544	6,572	given by MSBA but some are missing	(3,679)	(1,138)	(4,817)	MSBA standards and are too few.
		192%	152%	63%	168%	117%	117%	134%	program space, ie, practice rooms.	34%	79%	57%	
VOCATIONS	Existing Program	989	3,093	3,248	1,467	2,348	2,250	13,395	VocTech is greatly undersized	873	2,209	3,082	Both schools have a Tech CR but
& TECH	MSBA Guidelines	3,200	6,400	6,400	6,400	6,400	6,400	35,200	throughout the schools. In many,	3,200	3,200	6,400	neither have the proper shop areas.
	Delta - SF	(2,211)	(3,307)	(3,152)	(4,933)	(4,052)	(4,150)	(21,805)	multiple classrooms are missing.	(2,327)	(991)	(3,318)	Consider 21st C labs.
		31%	48%	51%	23%	37%	35%	38%	Thuriple classioons are missing.	27%	69%	48%	Consider 21st C labs.
HEALTH &	Existing Program	9,175	13,258	11,730	9,342	8,990	9,114	61,609	Overall the phys-ed program space is	9,379	6,533	15,912	Schools need larger locker rooms.
PHYSICAL ED	MSBA Guidelines	8,400	8,400	8,400	8,400	8,400	8,400	50,400	oversized by MSBA standards.	8,328	8,327	16,655	Barlett's gym is oversized & has extra
	Delta - SF	775 109%	4,858	3,330	942 111%	590	714 109%	11,209 122%	,	1,051	(1,794) 78%	(743) 96%	stage (not sanctioned by MSBA.)
			158%			107%				113%			
MEDIA	Existing Program	2,672	2,721	2,770	4,377	2,591	2,890	18,021	Most schools have media centers that	1,925	2,547	4,472	Schools have media centers that are
CENTER	MSBA Guidelines Delta - SF	3,548 (876)	4,296 (1,575)	4,146	4,238 139	4,175 (1,584)	4,284 (1,394)	24,688 (6,667)	are undersized. Consider 21st C	3,181	2,999 (452)	6,180 (1,708)	undersized. Consider 21st century
	Delta - Si	75%	63%	67%	103%	62%	67%	73%	media center when updating.	61%	85%	72%	learning commons when updating.
DIAMAG 0	Existing Program	5,240	6,647	10,115	5,823	5,185	5,112			5,374	6,092	11,466	0.6.6.5.5.5.15.1.4
DINING & KITCHEN	MSBA Guidelines	8,205	9,386	9,149	9,295	9,195	9,367	38,122 54,597	Cafeterias, not cafetoriums, are	8,123	7,923	16,046	Cafetorium is undersized in both
KITCHEN	Delta - SF	(2,965)	(2,739)	966	(3,472)	(4,010)	(4,255)	(16,475)	undersized by MSBA standards. Most	(2,749)	(1,831)	(4,580)	schools and need more space for
		64%	71%	111%	63%	56%	55%	70%	don't have proper storage SF.	66%	77%	71%	equipment storage.
	Existing Program	467	525	503	615	545	299	2,954	Medical suites meet MSBA guidelines	432	572	1,004	Medical suites meet MSBA guidelines
MEDICAL	MSBA Guidelines	610	610	610	610	610	610	3,660	other than the exam room that are	610	610	1,220	other than the exam room that are
	Delta - SF	(143)	(85)	(107)	5	(65)	(311)	(706)	either undersized or missing.	(178)	(38)	(216)	either undersized or missing.
		77%	86%	82%	101%	89%	49%	81%	ether undersized of missing.	71%	94%	82%	entier didersized of missing.
ADMIN &	Existing Program	3,228	2,758	2,419	2,364	3,536	2,752	17,057	Admin area in most schools don't	3,806	2,564	6,370	Admin and Guidance in both schools
GUIDANCE	MSBA Guidelines	3,201	3,481	3,455	3,471	3,460	3,479	20,547	have support areas for staff incl.	2,840	2,792	5,632	do not have support areas for staff
	Delta - SF	27 101%	(723) 79%	(1,036)	(1,107) 68%	76 102%	(727) 79%	(3,490)	copy, mail, and records rooms.	966 134%	(228) 92%	738 113%	incl. copy, mail, records, & storage.
	1							83%					
CUSTODIAL	Existing Program	2,038	2,159	1,782	2,694	2,059	1,127	11,859	Custodial areas do not have all the	1,458	2,063	3,521	Custodial areas do not have all the
& MAINT	MSBA Guidelines  Delta - SF	2,026	2,156	2,130	2,146 548	2,135 (76)	2,154 (1,027)	12,747 (888)	spaces the MSBA requires but have	2,098 (640)	2,061	4,160 (639)	spaces the MSBA requires but have
	Della - SF	101%	100%	84%	126%	96%	52%	93%	extra general storage included in gsf.	69%	100%	85%	extra general storage included in gsf.
OTHER	Existing Program	4.287	3,001	0	4.889	4.968	4,254	21,399	No MSBA space for Auditoriums.	1,236	0	1,236	No MSBA space for Computer Labs.
LUINEK	Exioting Flogram	1,207	0,001		1,000	1,000	1,201	21,000	140 MOBA Space for Additionaling.	1,200	<u> </u>	1,200	140 MODIT Space for Computer Labs.

### Grades K-4 Classroom Overcrowding - Current

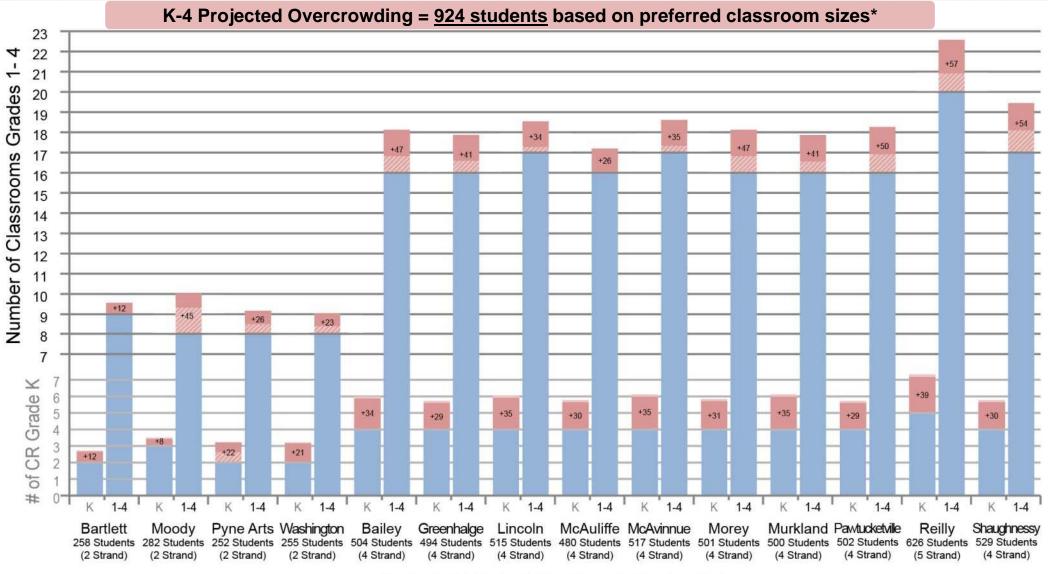


#### Current Student Enrollment Grades K-4

#### Key

- Existing number of students placed in current classrooms assuming 18 students in Kindergarten and 22 students in grades 1-4.
- Number of students not placed in current classrooms based on 18 & 22 student assumption.

# Grades K-4 Classroom Overcrowding - Projected



### Projected Student Enrollment Grades K-4

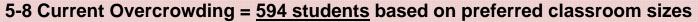
- Number of students placed in current classrooms assuming 18 students in Kindergarten and 22 students in grades 1-4.
- Existing number of students not placed in current classrooms based on 18 & 22 student assumption.
- 10 Year Projected Average NESDEC number of students not placed in current classrooms based on 18 & 22 student assumption.

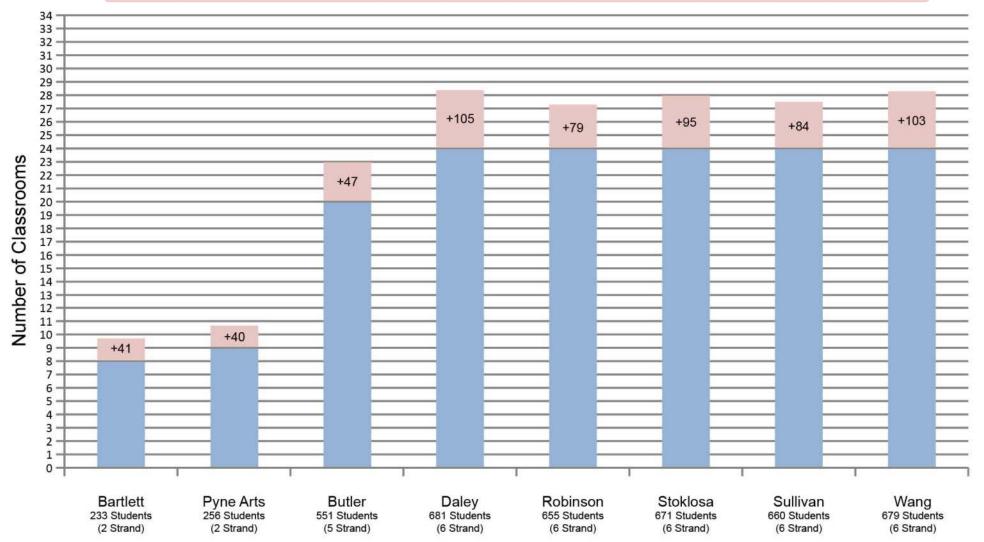
25 November 2013

Key

 $<sup>^{\</sup>star}$  Numbers do not include 15 swing classrooms, approximately 330 additional students.

## Grades 5-8 Classroom Overcrowding - Current





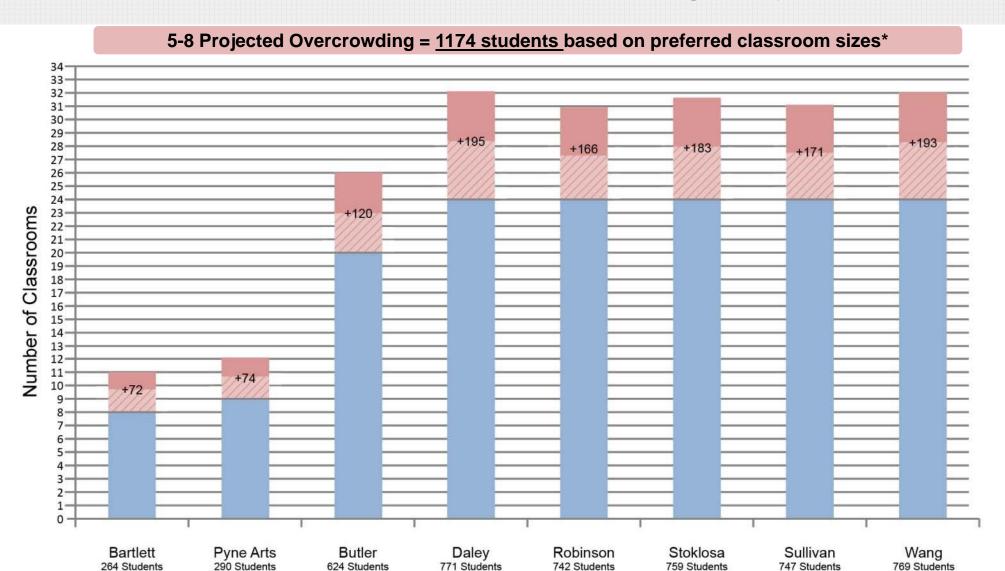
### Proposed Student Enrollment Grades 5-8

#### Key

Existing number of students placed in current classrooms assuming 24 students in grades 5-8.

Number of students not placed in current classrooms based on 24 student assumption.

## Grades 5-8 Classroom Overcrowding - Projected



(6 Strand)

### Proposed Student Enrollment Grades 5-8

(6 Strand)

(6 Strand)

(6 Strand)

Number of students placed in current classrooms assuming 24 students in grades 5-8.

(2 Strand)

(2 Strand)

Existing number of students not placed in current classrooms based on 24 student assumption.

■ 10 Year Projected Average NESDEC number of students not placed in current classrooms based on 24 student assumption.

(5 Strand)

25 November 2013

(6 Strand)

Key

<sup>\*</sup> Numbers do not include 15 swing classrooms, approximately 330 additional students.

# Educational Programming – Lowell High School

### 1 School of 3900 students\*\*\*+

Description	Existing Program	MSBA Guidelines - 11/2010	DELTA: Existing space rel. to MSBA	Comments / Considerations of Existing
	based on 3200 Enrollment	3900 Enrollment***	SF %	relative to new using MSBA school guidelines*
CORE ACADEMIC SPACES	121,567	184,410	(62,843 66%	have fewer Clrm, TPlan, Prep, Seminar; Small Science
SPECIAL EDUCATION	38,872	37,260	1,612 104%	may be allowable with backup*
ART & MUSIC	16,474	14,575	1,899 113%	may be allowable as some VoTec offset*
VOCATIONS & TECHNOLOGY	15,114	44,800	(29,686 34%	suggest adding large 21st c fab labs and other votech
HEALTH AND PHYSICAL EDUCATION	45,338	38,040	7,296 119%	gym +2x size, lockers 1/2 size; needs msba discuss*+
MEDIA CENTER	11,297	24,275	(12,978 47%	consider 21st c learning commons
AUDITORIUM / DRAMA	17,092	10,400	6,69 164%	2 auds; larger main space might be allowed*
DINING & FOOD SERVICE	23,733	27,650	(3,917) 86%	dining space too small
MEDICAL	1,718	2,810	(1,092) 61%	additional exam and resting rooms needed
ADMINISTRATION & GUIDANCE	22,854	11,658	11,19 196%	2x guid, admin, teachers work room
CUSTODIAL & MAINTENANCE	11,104	4,550	6,554 244%	space would shift to gross in MSBA guidelines
SUB-TOTAL Net Area	325,163	400,428	(75,265) 81%	net is significantly below MSBA guidelines
OTHER **	28,293	0	28,293	some spaces are not msba reimbursable*
GRAND TOTAL Net Area Net to Gross Ratio (Gross Area/ Net Area)	353,456 NSF 1.78 ratio	400,428 NSF 1.45 ratio <sup>+</sup>	(46,97 <mark>2 88%</mark>	net is too heavy on non-educational space; consider re- purposed space
Gross Area	627,645 GSF	580,620 GSF	47,025 108%	gross may be allowable due to enrollment *+

<sup>\*\*</sup> OTHER includes:

- Natatorium & Support
- Lowell CCTV
- Lowell Community Health Center
- School Store, Year Book, Stud Publication & Activities
- In house Suspension
- Bank
- DARE, UP, Catie's Closet, Plant Room, 2 unknown Programs

<sup>\*</sup> Per MSBA Guidelines; needs further discussion with MSBA

<sup>\*\*</sup> List of OTHER (assumed non- msba allowable) to the left

<sup>\*\*\*</sup> Based on current NESDEC 10 year projections dated October 30 2013

<sup>+</sup> Note that MSBA enrollment guidelines max at 2000 students, and use a grossing factor between 1.4 and 1.5. Depending on the use of existing buildings, these factors will need further discussion with MSBA.

## Educational Programming – Lowell High School

### 2 Schools of 1950 students each

Description	Existing Program	MSBA Guidelines - 2010	2 schools =	DELTA: Existing space rel. to	2 MSBA	Comments / Considerations of
	3200 Enrollment	1950 Enrollment/ school	3900 Enrollment Total*	SF	%	2 HS relative to 1 HS based on MSBA guidelines*
CORE ACADEMIC SPACES	121,567	91,830	183,660	(62,093)	66%	
SPECIAL EDUCATION	38,872	19,130	38,260	612	102%	may be allowable with backup*
ART & MUSIC	16,474	9,775	19,550	Allows ac	dition	al band, choral and art space 🔭 🦰 🗀 🗀 🗀 🗀 🗀
VOCATIONS & TECHNOLOGY	15,114	22,400	44,800	(29,686)	34%	
HEALTH AND PHYSICAL EDUCATION	45,338	27,120	54,240	Allows a	dditio	nal gymnasiums & PE space aces
MEDIA CENTER	11,297	12,088	24,175	(12,878)	47%	
AUDITORIUM / DRAMA	17,092	10,400	20,800	Allov	vs add	litional auditorium space
DINING & FOOD SERVICE	23,733	14,976	29,951	(6,218)	79%	
MEDICAL	1,718	1,510	3,020	(1,302)	57%	
ADMINISTRATION & GUIDANCE	22,854	6,726	13,453	9,402	170%	2x guid, admin, teachers work room
CUSTODIAL & MAINTENANCE	11,104	3,088	6,175	4,929	180%	space would shift to gross in MSBA guidelines
SUB-TOTAL						
Net Area	325,163	219,042	438,084	(112,921)	74%	net is significantly below MSBA guidelines
OTHER **	28,293	0	0	28,293		some spaces are not msba reimbursable*
GRAND TOTAL		<b>219,042 NSF</b>	438,084 NSF			
Net Area	353,456	1.45 ratio+	1.45 ratio⁺	(84,628)	81%	net is too heavy on non-educational space; consider
Net to Gross Ratio (Gross Area/ Net Area)	1.78			0.33		purposed space
Gross Area	627,645	317,611 GSF	635,221 GSF 🏓	(7,576)	99%	

<sup>\*\*</sup> OTHER includes:

- Natatorium & Support
- Lowell CCTV
- Lowell Community Health Ctr
- School Store, Year Book, Stud Publication & Activities
- In house Suspension
- Bank
- DARE, UP, Catie's Closet, Plant Room, 2 unknown Programs

<sup>\*</sup> Per MSBA Guidelines; needs further discussion with MSBA

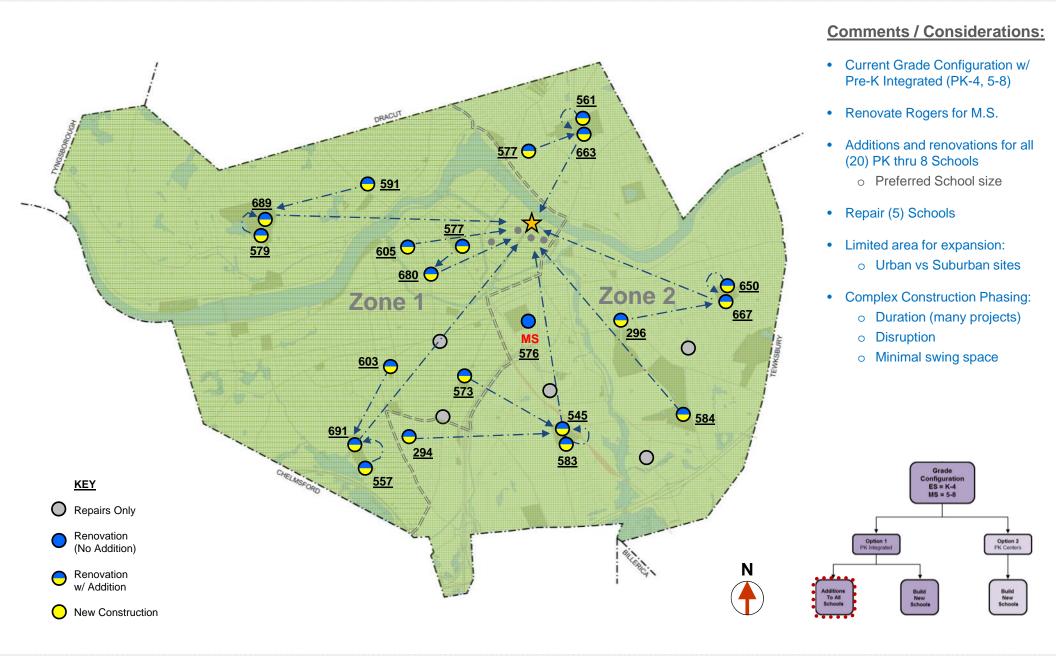
<sup>\*\*</sup> List of OTHER (assumed non- msba allowable) to the left

<sup>\*\*\*</sup> Based on current NESDEC 10 year projections dated October 30 2013

<sup>+</sup> Note that MSBA enrollment guidelines max at 2000 students, and use a grossing factor between 1.4 and 1.5. Depending on the use of existing buildings, these factors will need further discussion with MSBA.

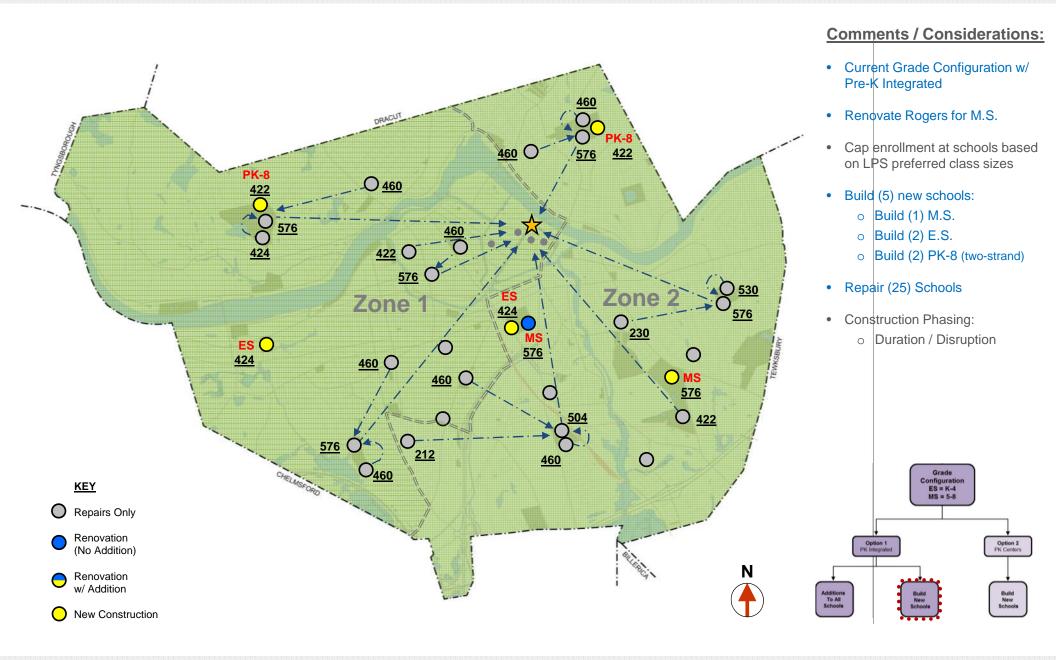
### Option 1A:

### Additions & Renovations to All ES, MS, & K-8 Schools



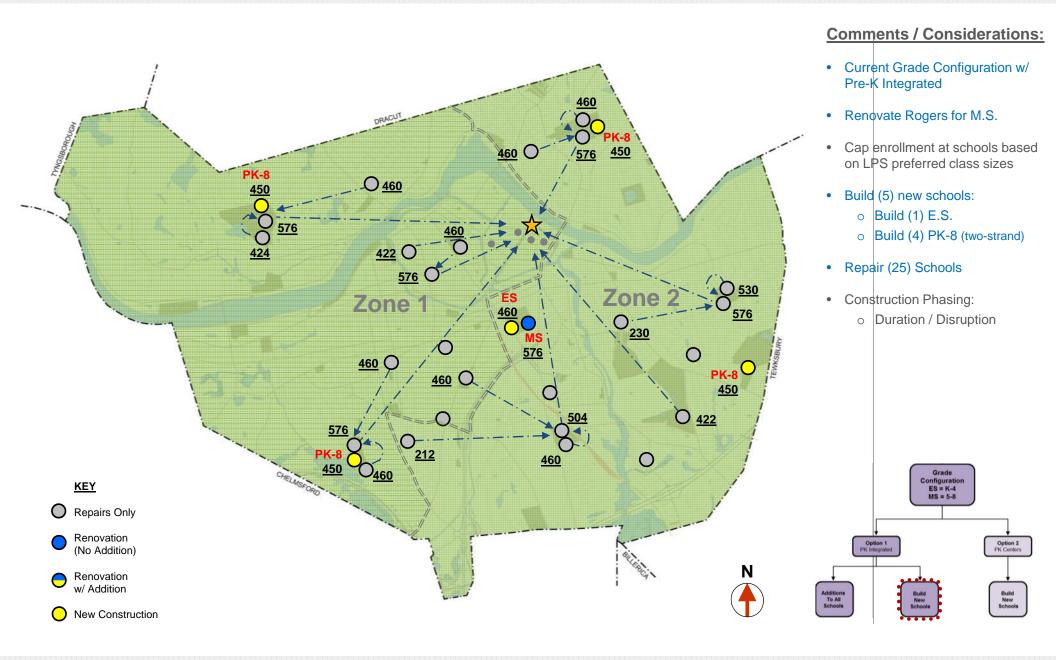
# Option 1B:

Add (1) MS, (2) ES, (2) PK-8 Schools



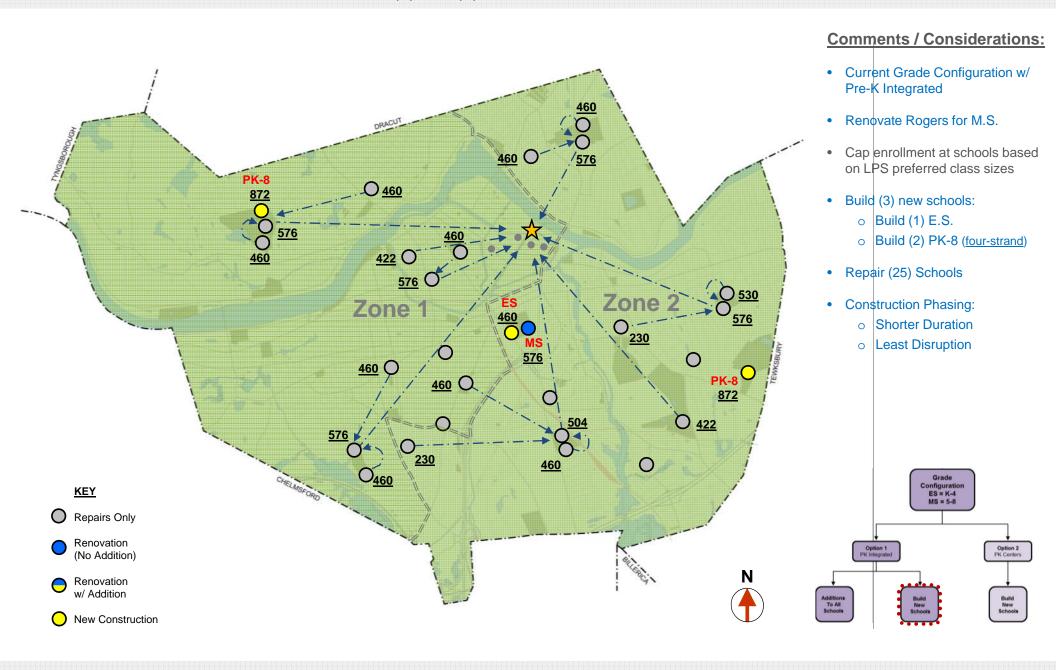
# Option 1C:

### Add (1) ES, (4) PK-8 Two-Strand Schools



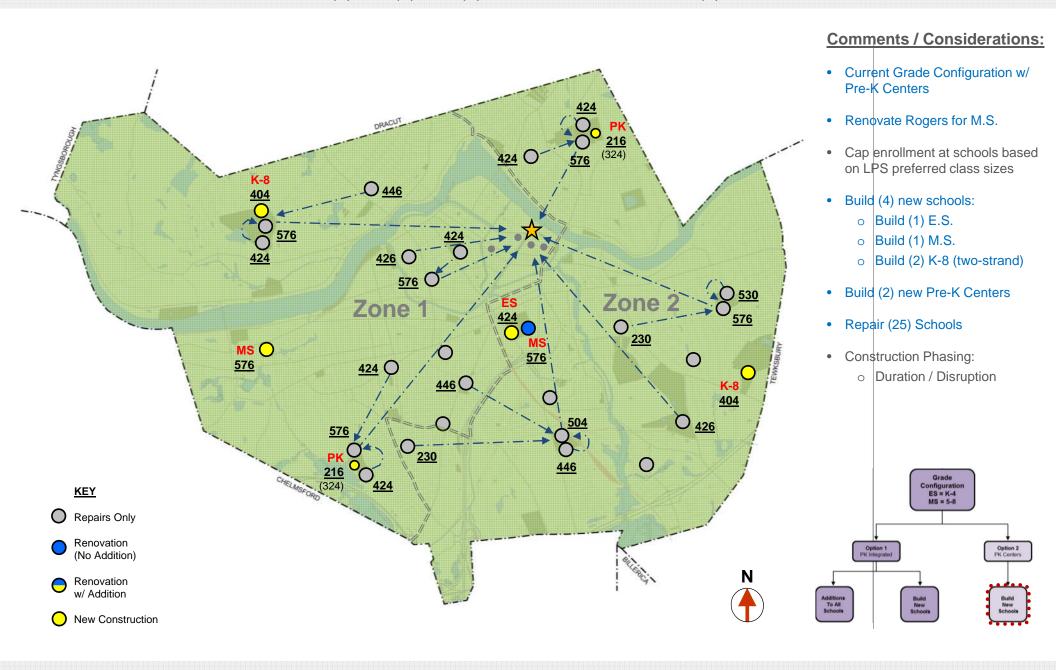
# Option 1D:

### Add (1) ES, (2) PK-8 Four-Strand Schools



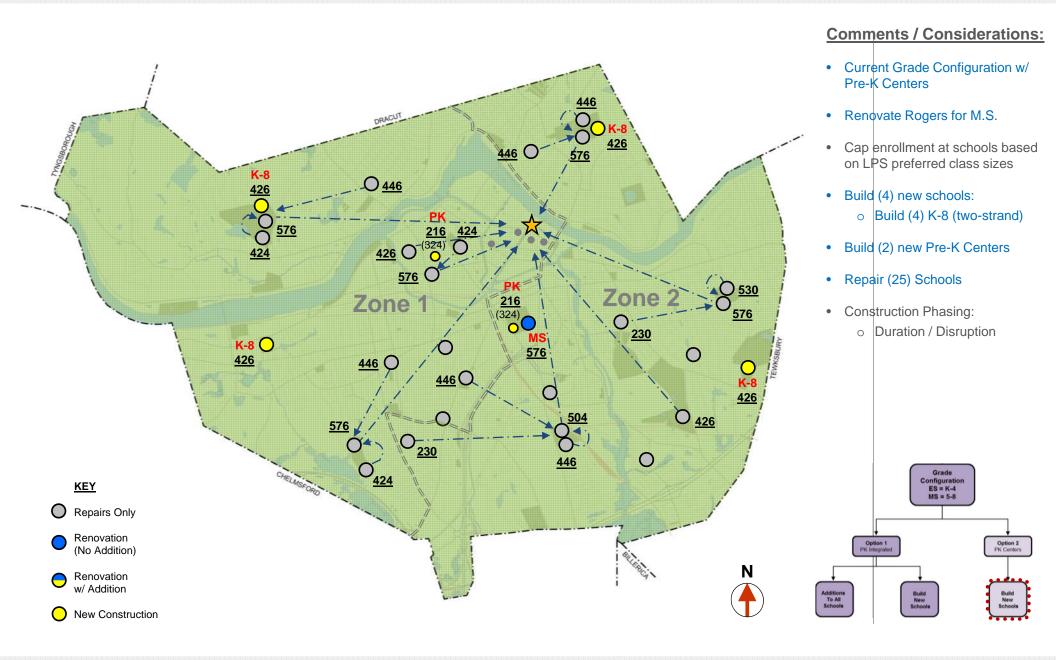
# Option 2A:

### Add (1) ES, (1) MS, (2) K-8 Two-Strand Schools, (2) PK's



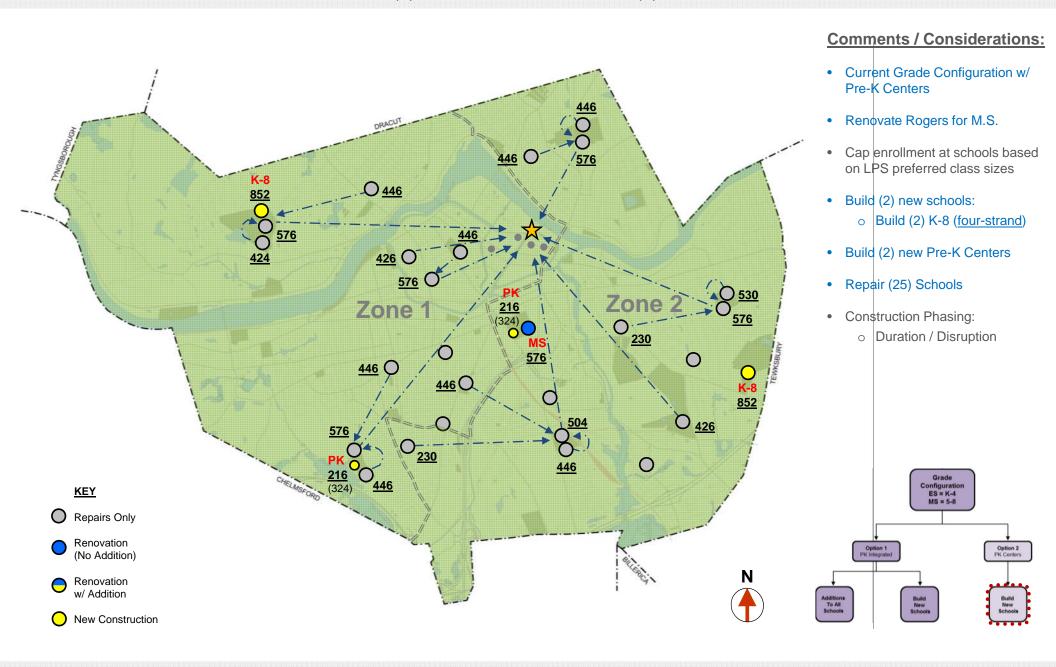
## Option 2B:

Add (4) K-8 Two-Strand Schools, (2) PK's



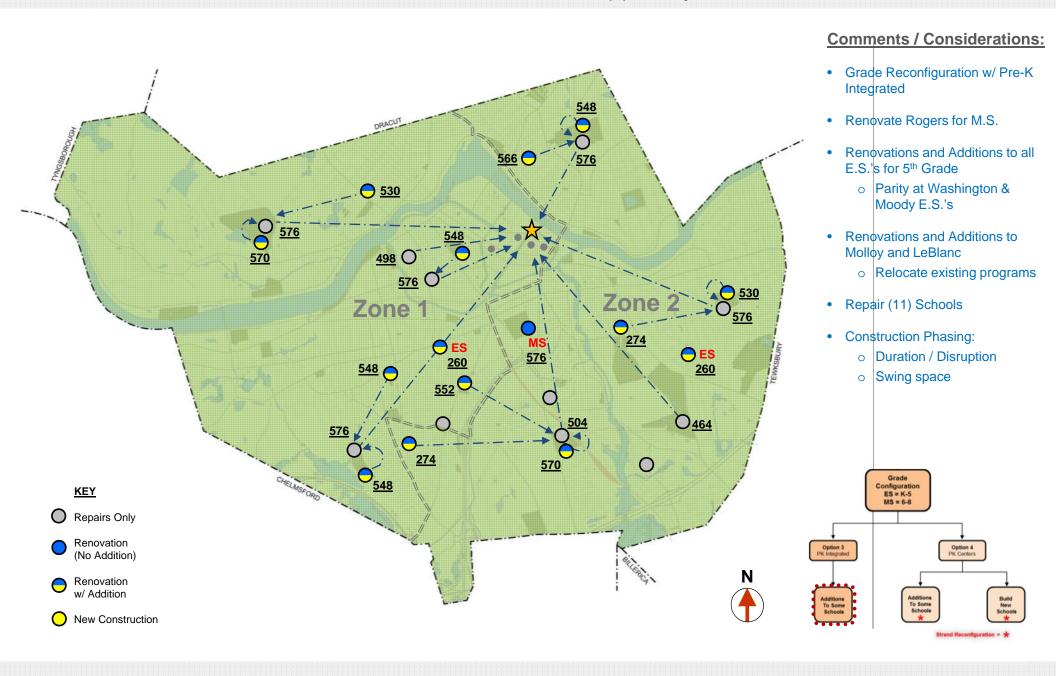
## Option 2C:

### Add (2) K-8 Four-Strand Schools, (2) PK's



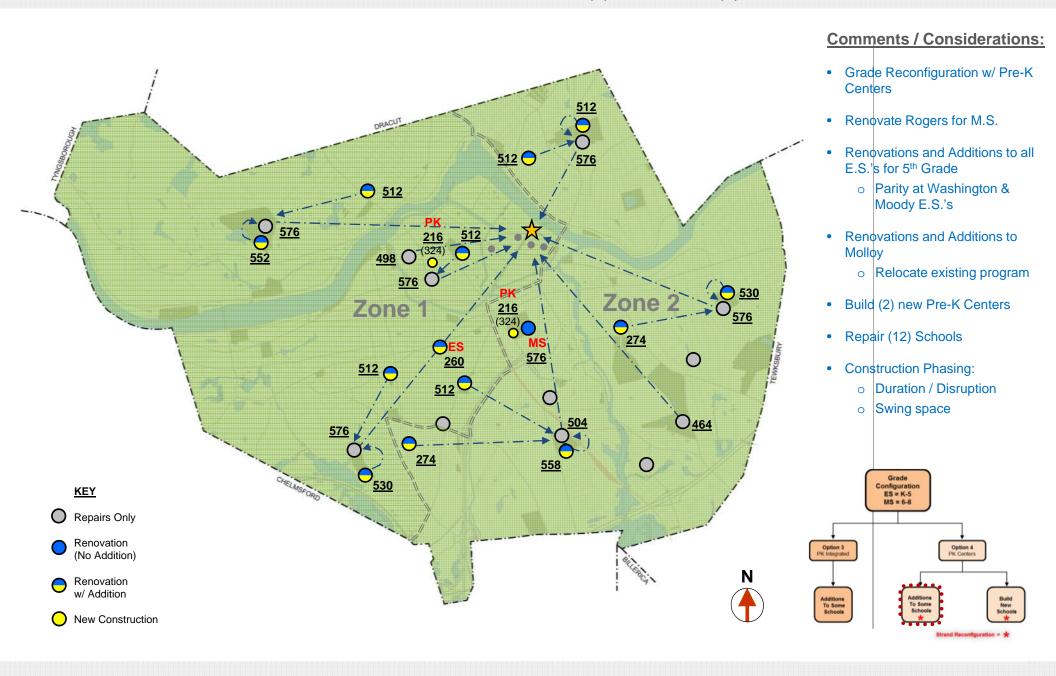
# Option 3:

### Additions & Renovations to All ES's & (2) Alt/Day Schools

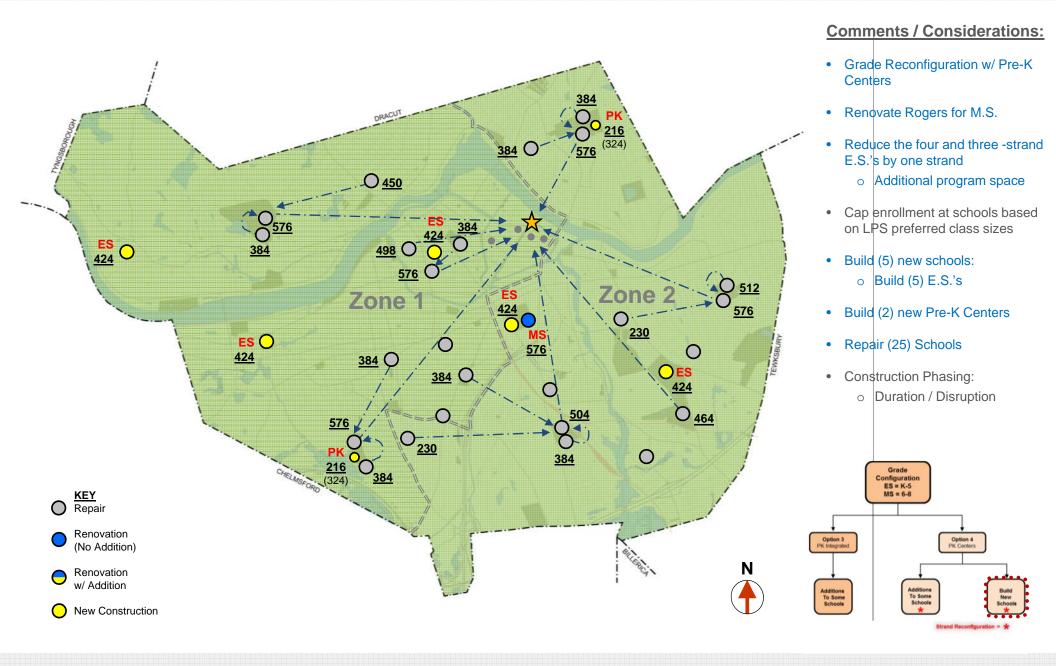


### Option 4A:

### Additions & Renovations to All ES's & (1) Alt Schools, (2) PK's

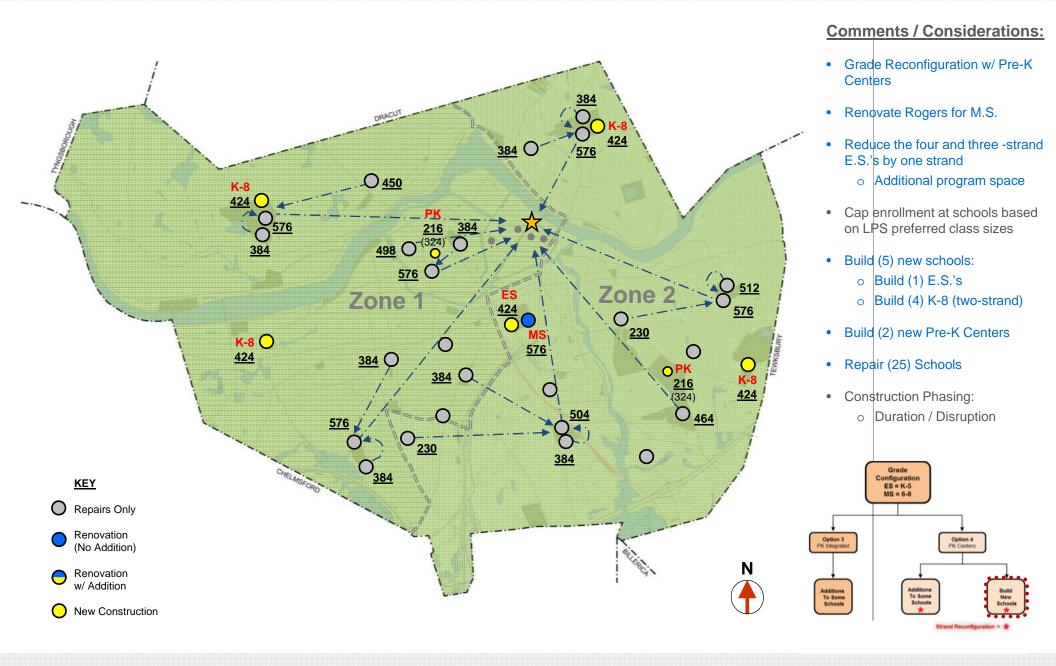


### Option 4B: Add (5) ES & (2) PK's



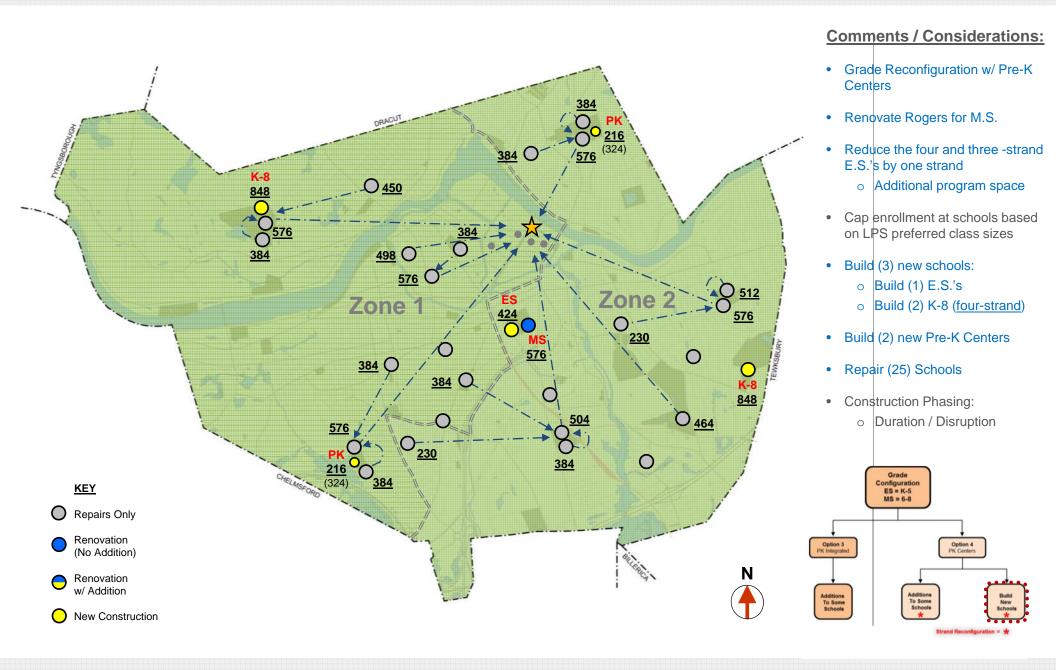
## Option 4C:

### Add (1) ES & (4) K-8 Two-Strand Schools, (2) PK's

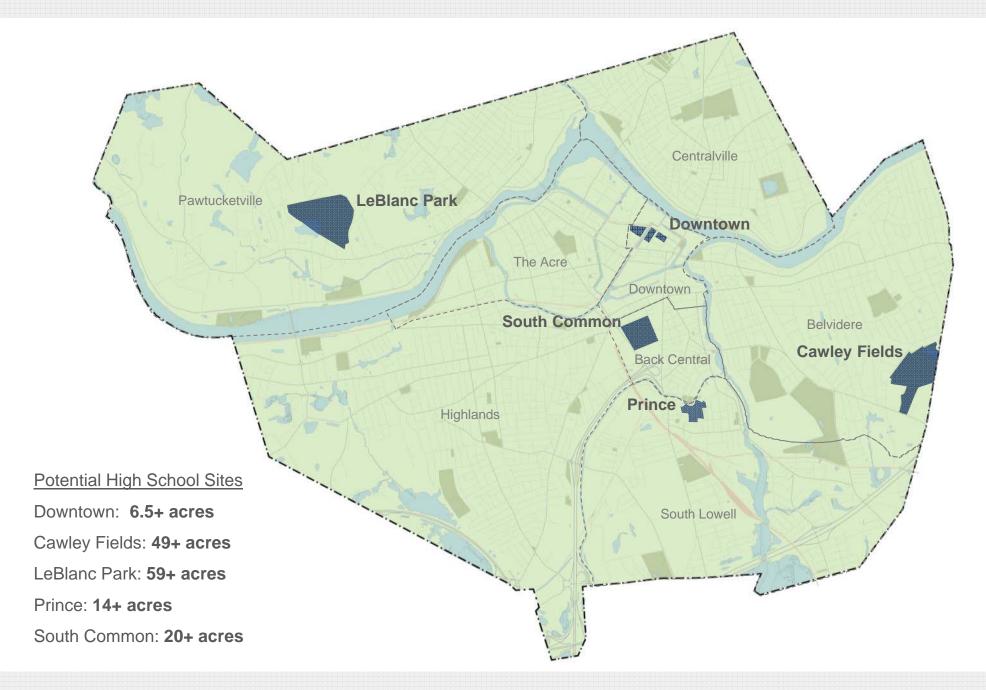


## Option 4D:

### Add (1) ES & (2) K-8 Four-Strand Schools, (2) PK's



# Lowell High School – Site Opportunities



## Site Analysis - Downtown



- Sun & Wind
- Flood Zones & Waterways

100 Year

500 Year

Waterways

• City Hall Historic District

Zone

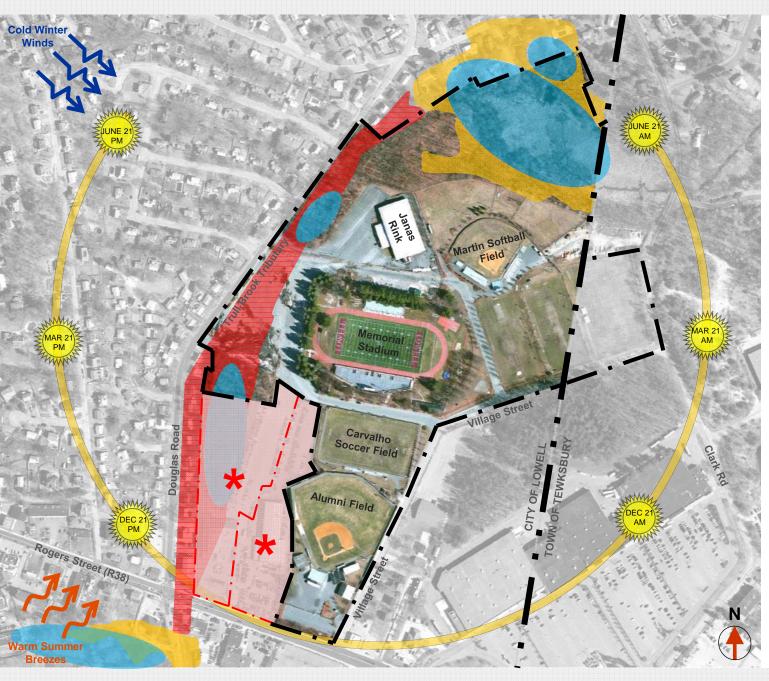
Adjacencies

City Hall, Library, Tsongas Center

**Parking Garages** 

Commercial

# Site Analysis - Cawley



- Sun & Wind
- Flood Zones & Wetlands

100 Year

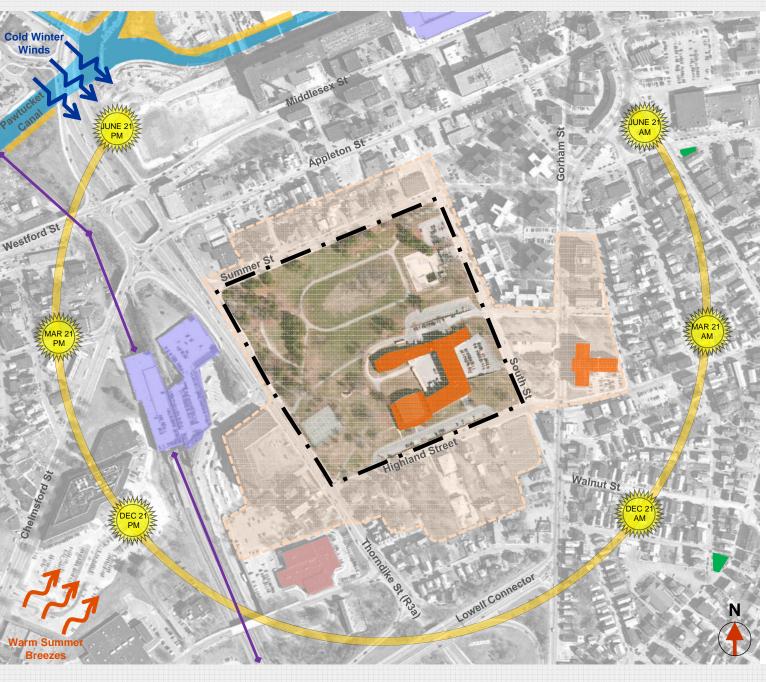
500 Year

Wetlands

Adjacencies

Commercial

# Site Analysis – South Common Park



- Sun & Wind
- Flood Zones & Wetlands

100 Year

Waterway

• Historic Districts



Adjacencies

Parks & Playgrounds

Public School & Courthouse

MBTA Terminal & Parking

YMCA

Railroad

## Site Analysis – Prince Site



- Sun & Wind
- Flood Zones & Wetlands

100 Year

500 Year

Waterway

Commercial / Industrial Zoning



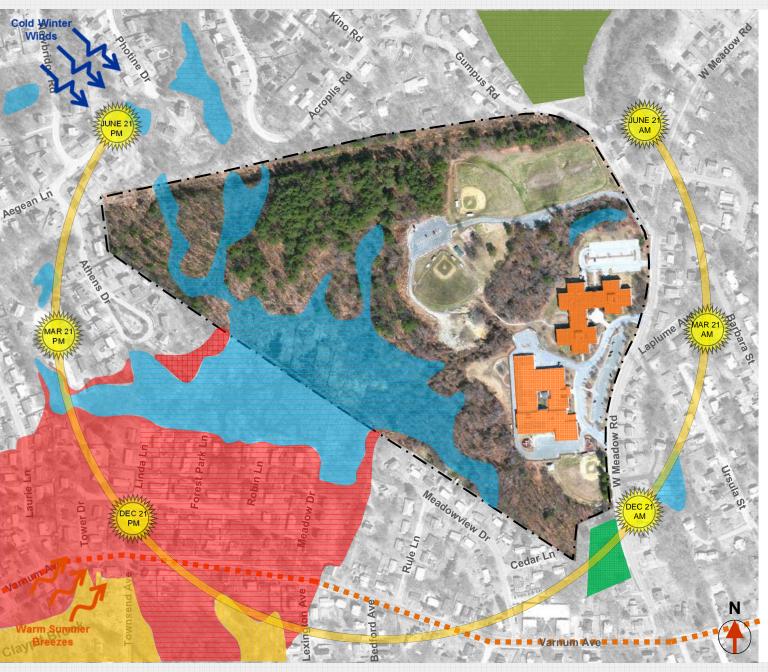
Adjacencies

Parks & Playgrounds

Public Schools

- Bike Path
- Railroad

# Site Analysis – LeBlanc Park



- Sun & Wind
- Flood Zone & Wetlands

100 Year

500 Year

Wetlands

Adjacencies

Public Schools

City Park

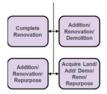
State Forest

Bike Path



#### 1 School - Renovation

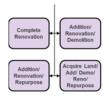
- Upgrade MEP and Building Systems
- Newly Renovated Science Department
- Expand Media Center and 21st Century Common/ Core Spaces
- Full Renovation of Existing Locker/ Toilet/ Shower Rooms
- Miscellaneous and Targeted Renovations
- Multiple Phases over extended period of time = Disruption





#### 1 School - Renovation / Addition

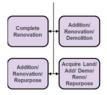
- Addition over Existing 1980 Building or on Adjacent Property
- Renovate Existing Similar to Reno Approach
- New STEM in Addition
- Freshman in 1890 wing
- Possibly Re-purpose Freshman Academy Building
- Multiple Phases over extended period of time = Disruption

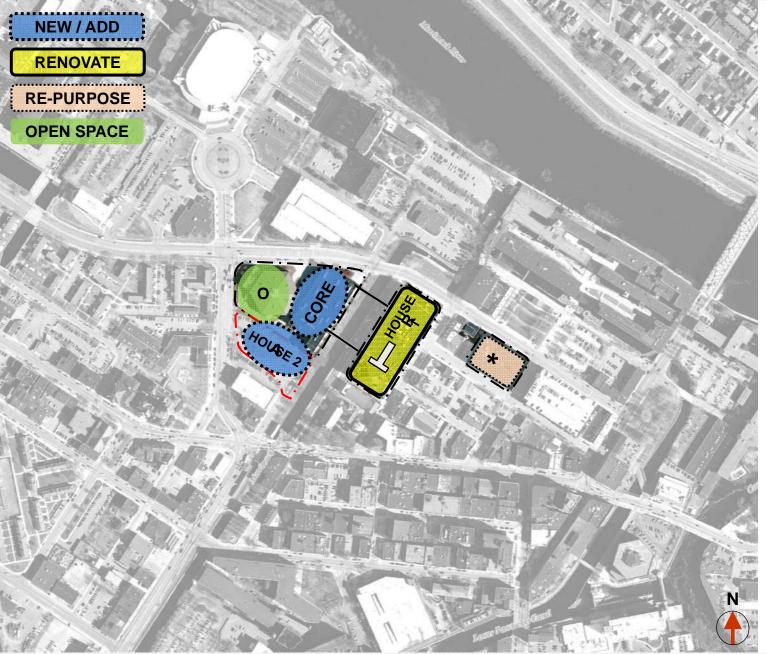




#### 1 School – Lowell Downtown Evolution Plan (LDEP)

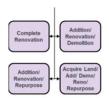
- · Acquire Adjacent Land
- New STEM and 21<sup>st</sup> century Core/ Common spaces in Addition
- Renovate 1890/1922 and FA Buildings
- Open space for PE
- Increases Campus Sprawl
- Creates Urban Edge
- Multiple Phases over extended period of time = Disruption
- Consider MSBA guidelines for SF

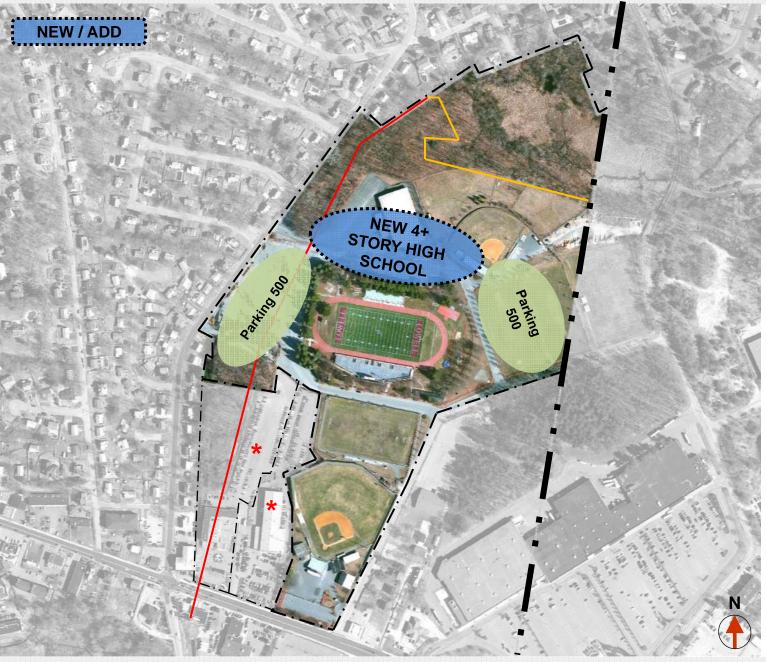




#### 1 School - LDEP Alternative

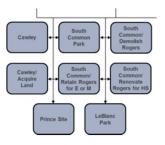
- Acquire Adjacent Land
- Construct New Academic Wing
- Demo Classroom Wing of 1980
- Construct new Café, Gym, Core/ Common & STEM/STEAM
- Demo Fieldhouse
- Renovate 1890/1922 Building with Freshman wing
- Possibly Re-purpose Freshman Academy
- Open Land for PE/ Athletics
- Possibility of Rooftop PE/ Athletics
- Could organize as 2 similar Houses
- Multiple Phases over extended period of time = Disruption





#### 1 School - Cawley Site

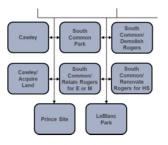
- New Multi-story High School
- Consider solar orientation when siting
- Remote Location w/ Limited Site Access
- Site Constraints from Wetlands and adjacent businesses
- Impact on the Existing Stadium and/or Ice Rink
- Good Adjacency to PE/Athletic Fields
- Minimal Disruption during construction

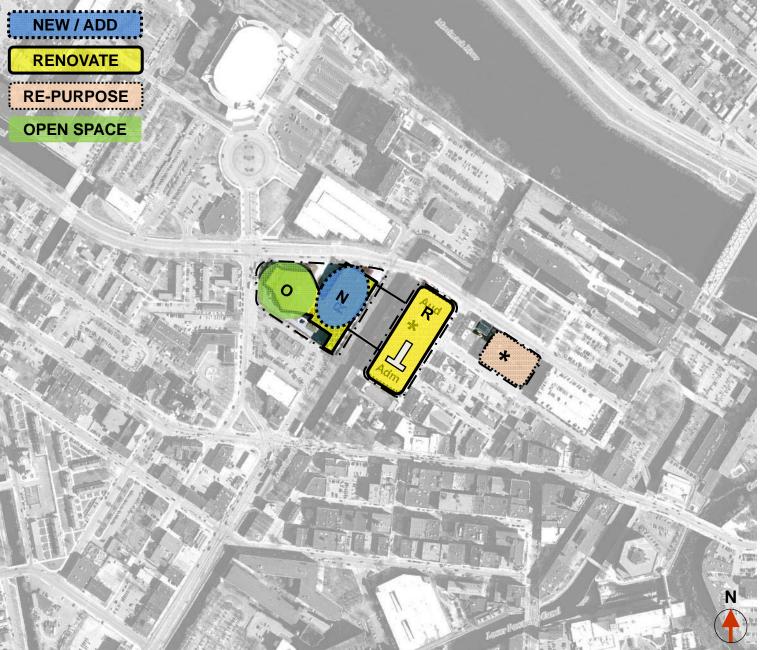




#### 1 School - South Common Site

- New Multi-story High School
- Consider solar orientation when siting
- Central and easy city and site access for all of Lowell
- Close to existing garages, transportation and YMCA
- New surface or underground parking if needed
- Open Space for PE or some Athletics
- Consider demolition of Existing Rogers School to maximize Park
- Minimal Disruption but impact on existing park during construction



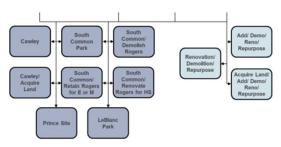


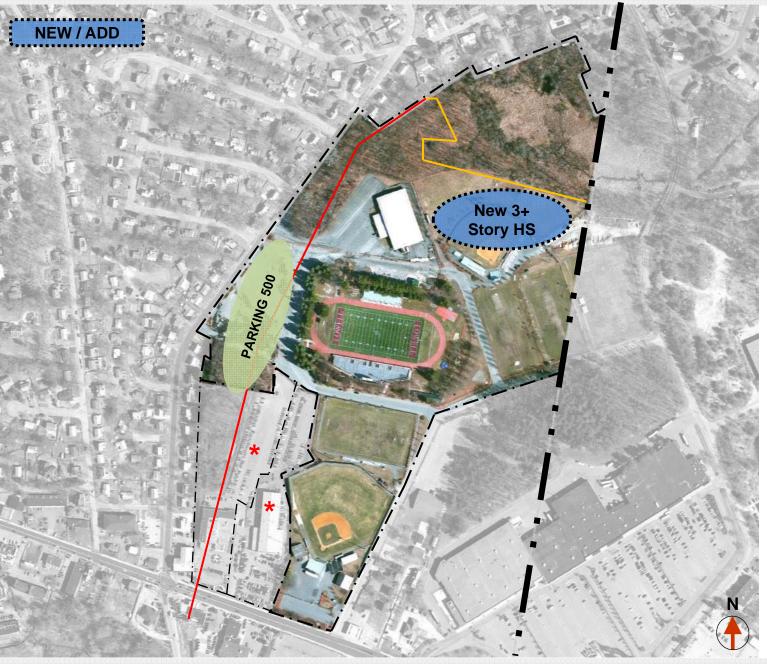
#### 1/2 School - Existing Site

- Build New Café/Gym on Existing 1980's Footprint
- Renovate existing 1922 and bring freshman to rear wing
- Demolish Existing Fieldhouse
- Repurpose FA building
- Utilize open space for PE/Athletics

#### <u>Or</u>

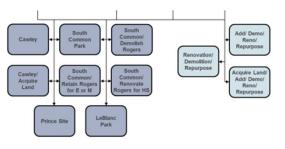
- Renovate 1980's & Field House
- Retain use of Auditorium in 1922
- Repurpose FA and 1890/1922 buildings for District Administration, etc.
- Consider land acquisition for open PE space





#### 1/2 School - Cawley Site

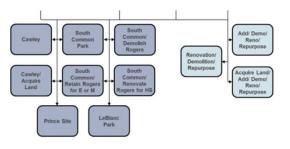
- New smaller Multi-story High School
- Consider solar orientation when siting
- Remote Location w/ Limited Site Access
- Site Constraints from Wetlands and adjacent businesses
- No impact on the Existing Stadium and/or Ice Rink
- Good Adjacency to PE/Athletic Fields
- Minimal Disruption during construction





#### 1/2 School – South Common Site

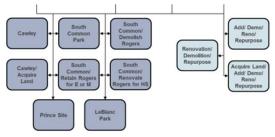
- New smaller Multi-story High School
- Consider solar orientation when siting
- Central and easy city and site access for all of Lowell
- Close to existing garages, transportation and YMCA
- New surface or underground parking if needed
- Open Space for PE or some Athletics
- Potential to Re-use Rogers School for E or M
- Minimal Disruption but impact on existing park during construction





#### 1/2 School - Prince Site

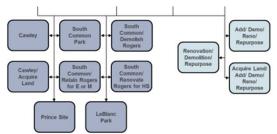
- New smaller Multi-story High School
- Consider solar orientation when siting
- Central city and site access for all of Lowell
- Commercial/ Industrial Zoning may have other uses
- Site Constraints from Wetlands limits land to a smaller urban school
- No Disruption during construction





#### 1/2 School – LeBlanc Park

- New smaller Multi-story High School
- Consider solar orientation when siting
- Remote Location w/ Limited Site Access
- Site Constraints from Wetlands and other school uses limits land to a smaller urban school
- Consider below grade parking to allow for fields
- Minimal Disruption at E/M fields during construction



### Baseline Repair Cost Estimates – Assumptions & Cost Drivers

### <u>Included</u>

- MAAB upgrades relative to basic access for All to every building, every floor, every stage, and toilet rooms on each floor for student and staff.
- Public safety recommendations
- Building envelope recommendations
- Major interior and/or finishes work
- MEP/FP recommendations
- Major hardscape recommendations
- Comprehensive Reno of LHS locker room
- Significant Natatorium repair allowance
- Assumed general contractor markups and general conditions
- Assumed estimating contingency
- Assumed project cost multiplier
- Costs are order of magnitude and developed based on square footage

### **Not Included**

- Basic maintenance such as:
  - Interior/ Exterior painting
  - Minor wall surface repair
  - Minor ACT replacement
  - Minor wood refinishing
  - Minor casework hardware/ edge band repair
  - Minor locker repairs
  - Missing/damaged toilet accessories
  - General roof maintenance
  - General landscape maintenance
  - Parking space striping & signage
- Science room upgrade at LHS
- Additional MAAB & Building code triggers assumed for larger renovation projects
- Escalation (assuming today's dollars)
- Programmatic changes

# Baseline Repair Cost Estimates – Elementary Schools

Building	Bailey Elementary School	Greenhalge Elementary School	Lincoln Elementary School	McAuliffe Elementary School	McAvinnue Elementary School	Moody Elementary School	Morey Elementary School	Murkland Elementary School	Pawtucketville Memorial Elementary School	Reilly Elementary School	Shaughnessy Elementary School	Washington Elementary School
Size (GSF)	64,697	72,115	62,456	63,655	70,326	47,296	68,405	62,050	78,424	74,129	63,918	36,432
Architectural & Structural Costs (0-5 yrs)	\$162,845	\$608,279	\$604,331	\$150,837	\$701,669	\$1,007,833	\$67,831	\$582,779	\$98,990	\$165,240	\$479,687	\$1,218,642
MEPFP Costs (0-5 yrs)	\$2,246,471	\$1,433,646	\$2,527,282	\$2,272,935	\$2,146,701	\$2,504,756	\$0	\$1,867,705	\$937,951	\$2,048,926	\$1,431,763	\$1,914,502
Total Construction Cost (1.4214 multiplier)	\$3,424,602	\$2,902,392	\$4,451,275	\$3,445,150	\$4,048,673	\$4,992,794	\$96,415	\$3,483,118	\$1,473,908	\$3,147,216	\$2,716,935	\$4,453,451
TOTAL SHORT TERM PROJECT COST (1.25 multiplier)	\$4,280,752	\$3,627,990	\$5,564,093	\$4,306,437	\$5,060,841	\$6,240,993	\$120,519	\$4,353,897	\$1,842,385	\$3,934,019	\$3,396,169	\$5,566,814

## Baseline Repair Cost Estimates – Middle, K-8, Rogers Schools

Building	Butler Middle School	Daley Middle School	Robinson Middle School	Stoklosa Middle School	Sullivan Middle School	Wang Middle School	Bartlett Community Partnership K-8 School	Pyne Arts K-8 School	Rogers Kindergarten/ Administration
Size (GSF)	96,572	111,810	99,181	105,465	97,213	93,864	95,586	78,963	111,786
Architectural & Structural Costs (0-5 yrs)	\$591,996	\$1,096,580	\$930,628	\$278,276	\$318,204	\$100,912	\$806,435	\$441,012	\$1,156,374
MEPFP Costs (0-5 yrs)	\$2,148,727	\$3,948,303	\$3,942,445	\$984,788	\$2,007,448	\$1,883,403	\$1,476,804	\$761,203	\$4,720,964
Total Construction Cost (1.4214 multiplier)	\$3,895,664	\$7,170,797	\$6,926,586	\$1,795,319	\$3,305,682	\$2,820,505	\$3,245,396	\$1,708,828	\$8,354,048
TOTAL <u>SHORT TERM</u> PROJECT COST (1.25 multiplier)	\$4,869,580	\$8,963,496	\$8,658,232	\$2,244,149	\$4,132,102	\$3,525,632	\$4,056,745	\$2,136,036	\$10,442,560

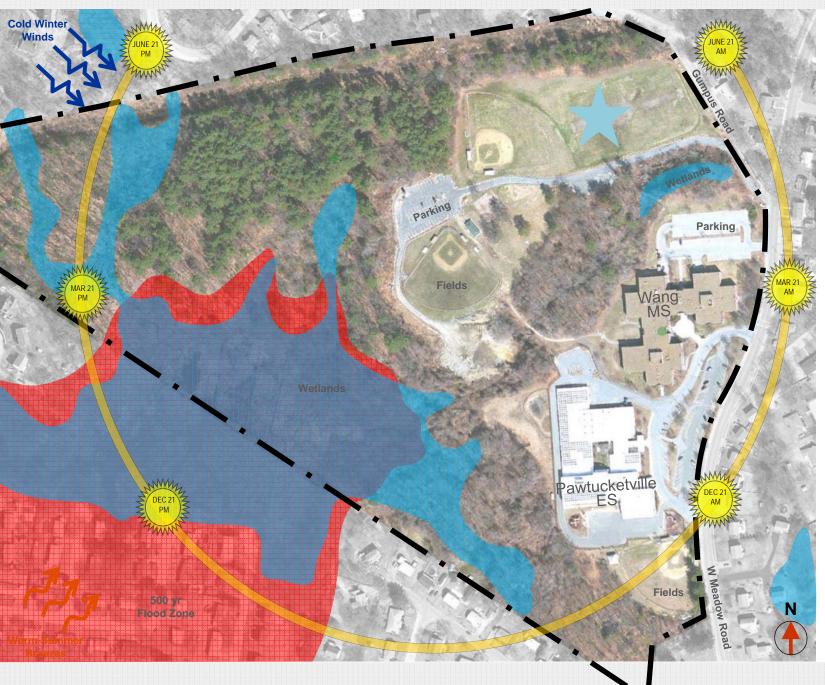
# Baseline Repair Cost Estimates – High School Facilities

	Building	LHS Freshman Academy	Lowell High School	LHS Steam Plant			
Size (GSF)		92,758	536,766	2,500			
Architectural & Structural Costs (0-5 yrs)		\$942,698	\$6,191,921	\$15,940			
MEP	FP Costs (0-5 yrs)	\$17,648,872					
Total Construction Cost (1.4214 multiplier)		\$35,249,911					
тот	PROJECT COST (1.25 multiplier)	\$44,062,389					
ТОТ	PROJECT COST		\$44,062,389				

## Baseline Repair Cost Estimates – AEC, Alternative & Day Facilities

Building	Cardinal O'Connell Alternative School	Laura Lee Therapeutic Day School	LeBlanc Therapeutic Day School	Molloy Alternative School	Riverside Alternative School	Green School- Adult Education Center
Size (GSF)	23,989	15,448	26,654	20,545	19,094	22,885
Architectural & Structural Costs (0-5 yrs)	\$897,945	\$542,198	\$495,898	\$698,870	\$1,217,502	\$916,396
MEPFP Costs (0-5 yrs)	\$1,161,068	\$609,424	\$1,079,091	\$929,661	\$938,833	\$1,153,404
Total Construction Cost (1.4214 multiplier)	\$2,926,681	\$1,636,916	\$2,238,689	\$2,314,794	\$3,065,015	\$2,942,014
TOTAL <u>SHORT TERM</u> PROJECT COST (1.25 multiplier)	\$3,658,351	\$2,046,144	\$2,798,362	\$2,893,492	\$3,831,268	\$3,677,517

### Preliminary Site: LeBlanc Park



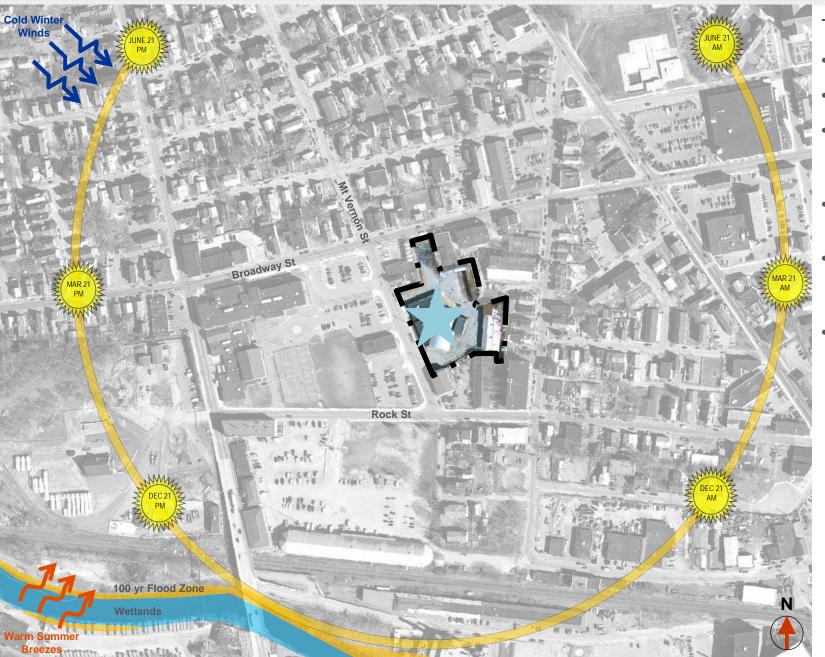
#### **Pawtucketville**

- 59+ Acres
- City owned property
- Wang & Pawtucketville share site
- Proposed new school next to existing schools
- Site restrictions include wetlands and flood zones
- Some disruption to Wang & Pawtucketville fields during construction



25 November 2013

### Preliminary Site: Mt Vernon St./ Farnham St.

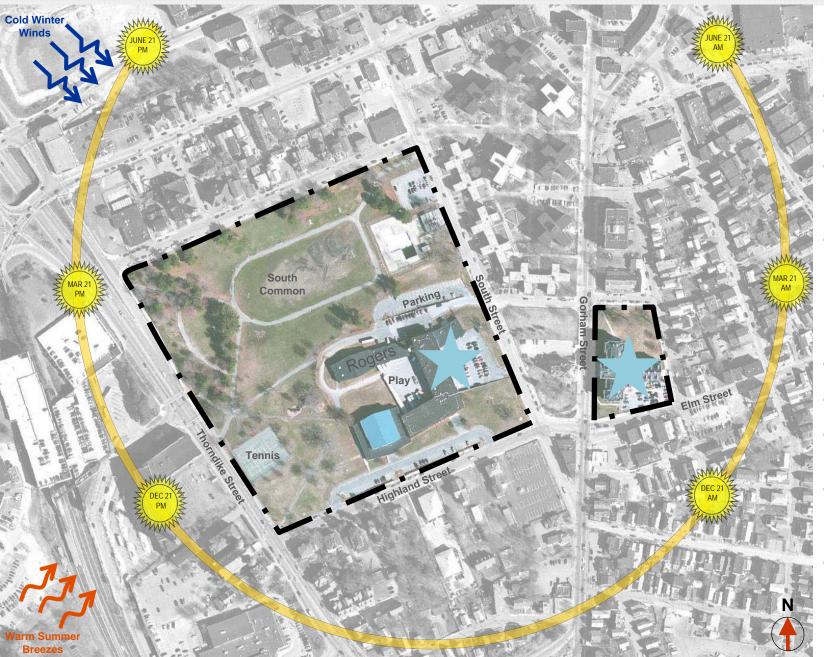


#### The Acre

- 3 Acres +/-
- Site owned by the City
- Urban renewal area plan calls for other uses and would need to be amended.
- An additional adjacent site may be available
- May share recreational and parking facilities with Stoklosa
- Central to City



### Preliminary Site: South Common & Courthouse



#### **Back Central**

#### Courthouse

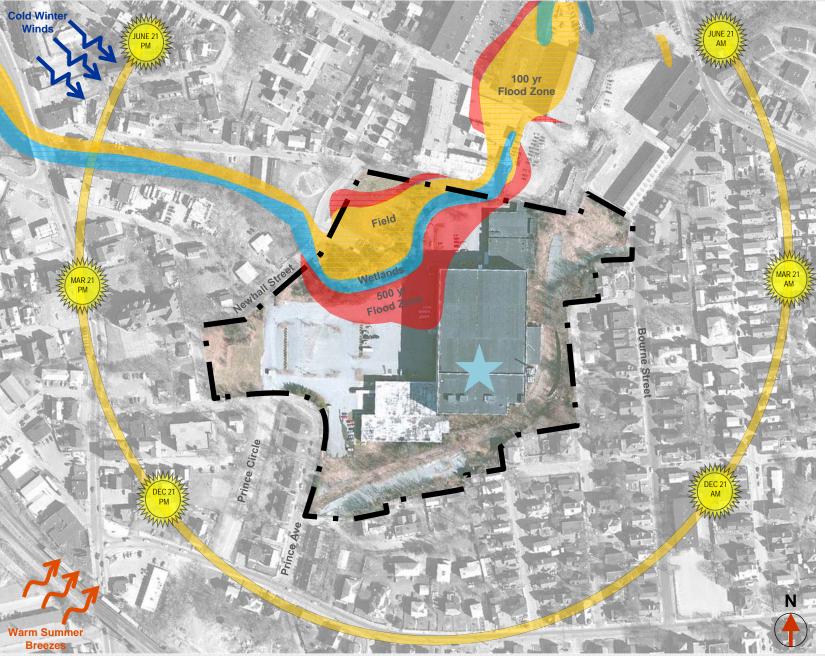
- 1.63 Acres
- City owned land
- Existing Courthouse on site but New Courthouse planned off-site (JAM)
- Potential 2 Strand School or Alternative School

#### South Common

- 20.5 Acres
- · City owned land
- Existing Rogers School building on site
- South Common Master Plan revitalization project is in development now
- Potential Elementary or Middle School



### Preliminary Site: Prince

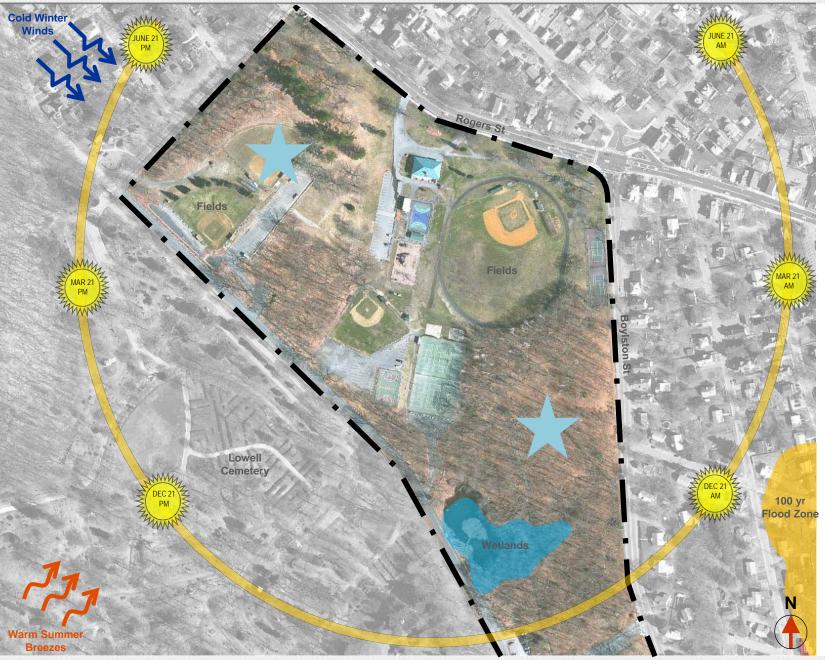


#### South Lowell

- 14+ Acres
- · Privately owned land
- Wetlands and Flood zone
- Commercial/ Industrial Zone
- Site currently has old Prince factory building
- Near alternate/day school
- Propose new school or repurpose existing building



# Preliminary Site: Upper Shedd Park

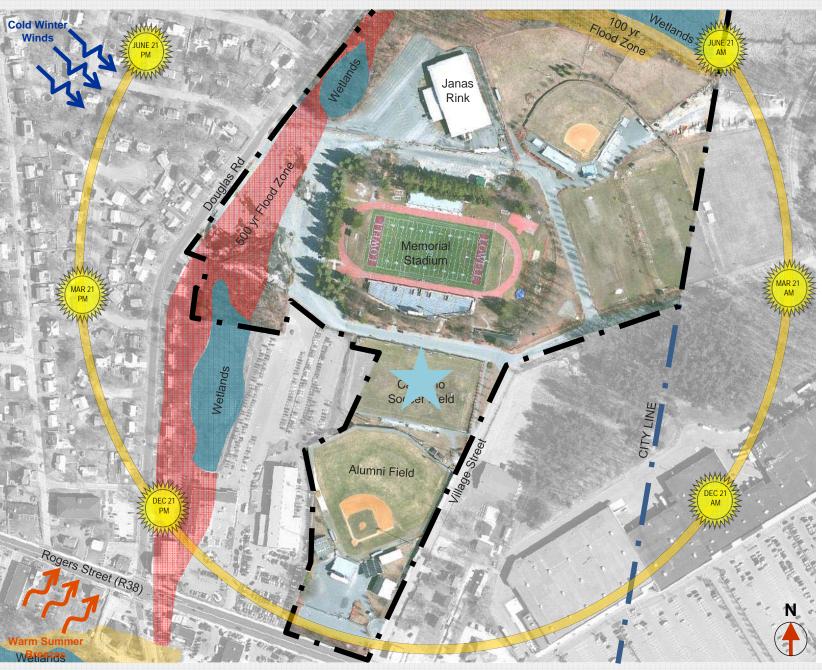


#### South Lowell / Belvidere

- Shedd: 23+ Acres
- City owned land
- Pyne Arts on site
- Active recreational use
- Proposed new school next to existing facilities



## Preliminary Site: Cawley

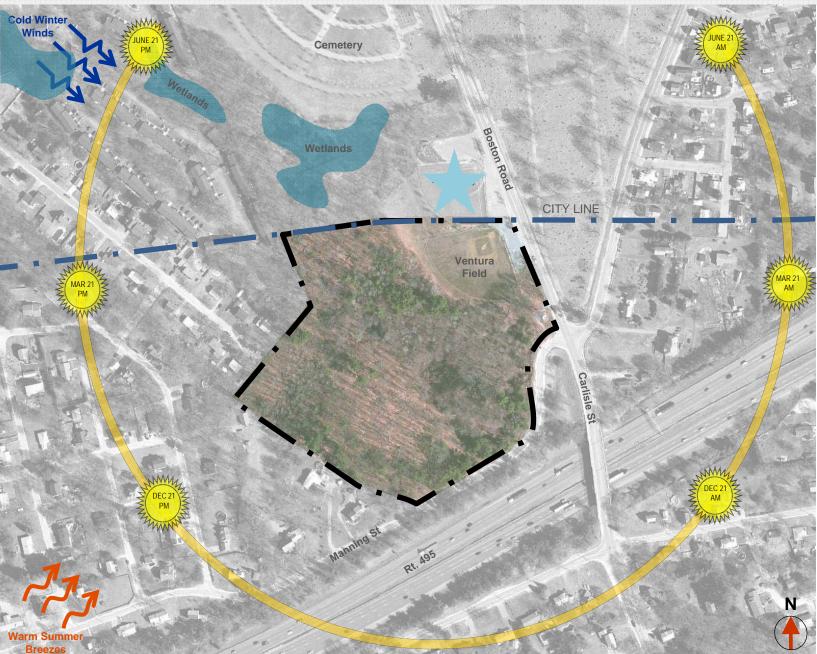


#### Belvidere

- City Owned
- Athletic Facilities share the site
- Proposed new school next to existing facilities
- Consider acquisition of additional land



### Preliminary Site: Carlisle Street



#### Chelmsford

- 14.3 +/- Acres
- Currently owned by the City but located in the town of Chelmsford
- Field currently located on site



# **Red Sites**

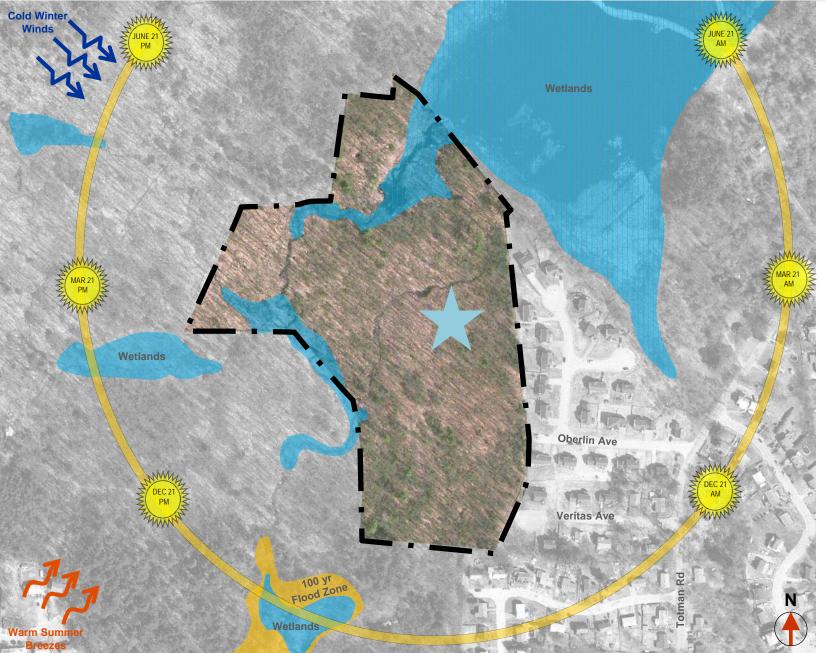
### Preliminary Site: 1254 Varnum Ave



- 11+ Acres
- Site owned by City of Lowell Water Department
- Very wooded site
- Not in flood zones but some wetlands
- Located next to an existing baseball diamond



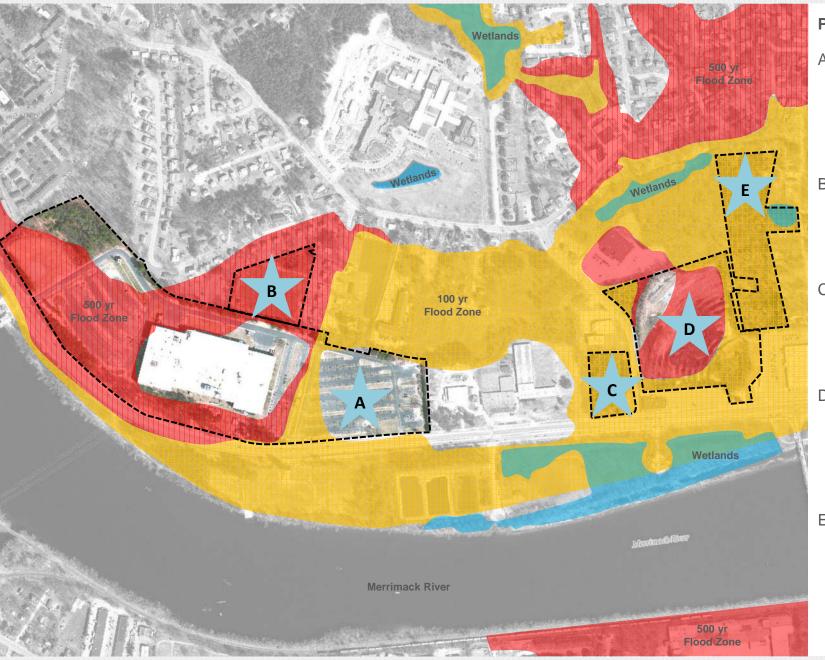
# Preliminary Site: 983.1 Varnum Ave



- 16 Acres +/-
- Not currently owned by the City
- Some wetlands
- Limited access
- Potential for future residential growth to the west



### Preliminary Site: River Sites



- A. 1001 Pawtucket Blvd
  - 7 +/- Acres
  - Underdeveloped, privately owned site
- B. 72.1 Fowler Rd
  - 4 +/- Acres
  - · City owned agricultural site
- C. 751 Pawtucket Blvd
  - 2.7 +/- Acres
  - City owned site, flood zone
- D. 677 Pawtucket Blvd
  - 12.6 Acres
  - Privately owned, plans for temple on site
- E. 800.1 Varnum Ave
  - 8 +/- Acres
  - Privately owned



### Preliminary Site: Mammoth



- 3+ Acres
- Former Archdiocese of Boston property
- Across from McAvinnue School & near fields
- Might share resources, including new parking for McAvinnue
- Main transportation route and ease of access
- Potential site for Elementary or Middle School



### Preliminary Site: Gage Park



#### Centralville

- 21 +/- Acres
- City owned property
- Robinson & McAuliffe share site
- Proposed new school next to existing schools



# Preliminary Site: Rivercliff

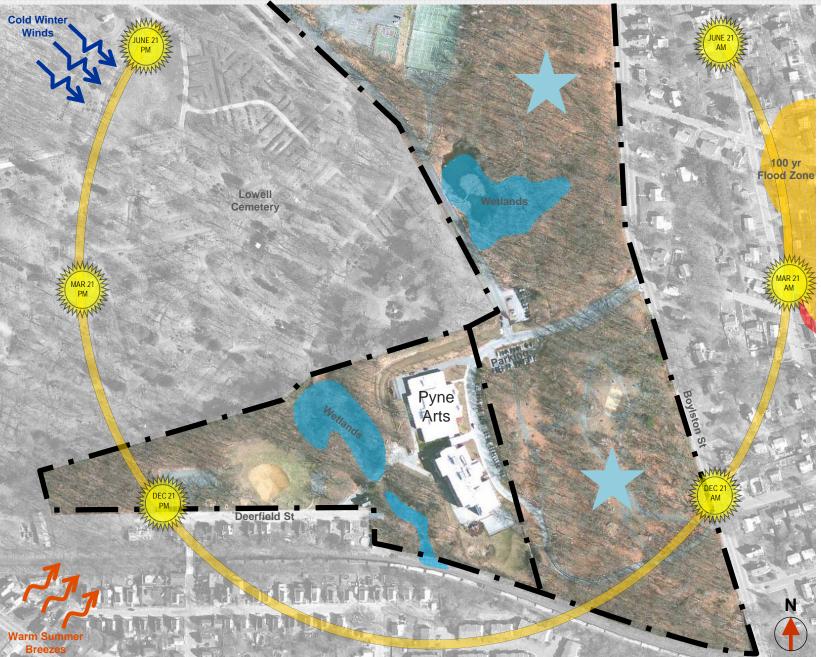


#### Belvidere

- 4 +/- Acres
- Privately owned site, currently single family parcel
- Potential site for new school or Pre-K center



### Preliminary Site: Lower Shedd Park



#### South Lowell / Belvidere

• Donahoe: 13+ Acres

• Shedd: 23+ Acres

City owned land

• Pyne Arts site

• Active recreational use

Proposed new school next to existing



### Preliminary Site: Plain St



- 2 Acres +/-
- Not currently owned by the City
- Actively on the market
- Requires abandonment of a section of roadway to make a contiguous parcel and possible relocation of VFW
- Main transportation route and ease of access
- Potential site for a PK center



# Preliminary Site: O'Donnell



#### South Lowell

- 11+ Acres
- City owned land
- Butler & Shaughnessy share site
- Tight for a third school, but an addition may be feasible



### Preliminary Site: Gorham St



#### South Lowell

- 3.3 +/- Acres
- Not currently owned by the City
- Former car dealership currently on the market
- Main transportation route and ease of access



### Preliminary Site: Boylston St / N Billerica Rd

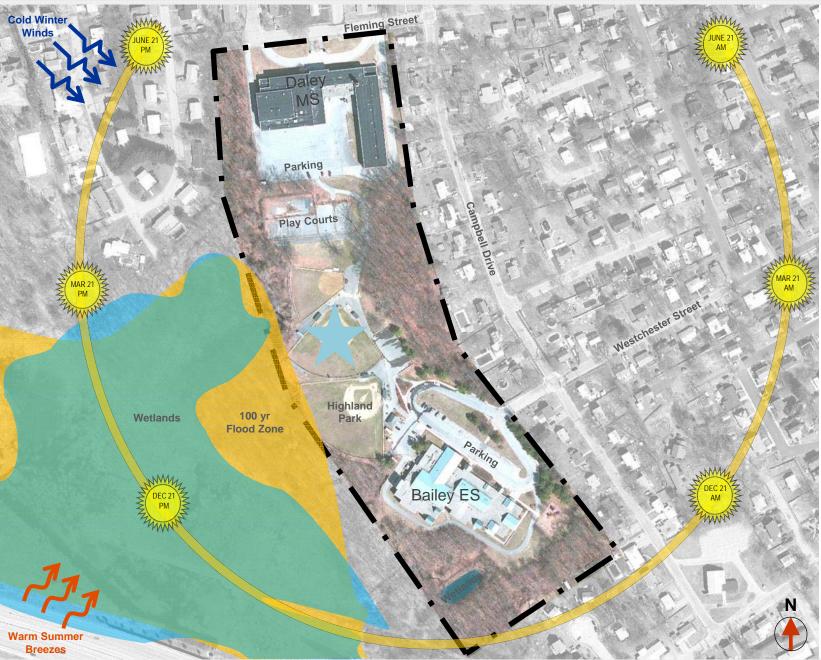


#### South Lowell

- 11.5 Acres +/-
- Not currently owned by the City
- Adjacent to highway
- Existing fields on land
- Main transportation route and ease of access



# Preliminary Site: Highland Park



- 20 Acres
- City owned land
- Bailey & Daley share site
- Proposed new school next to existing



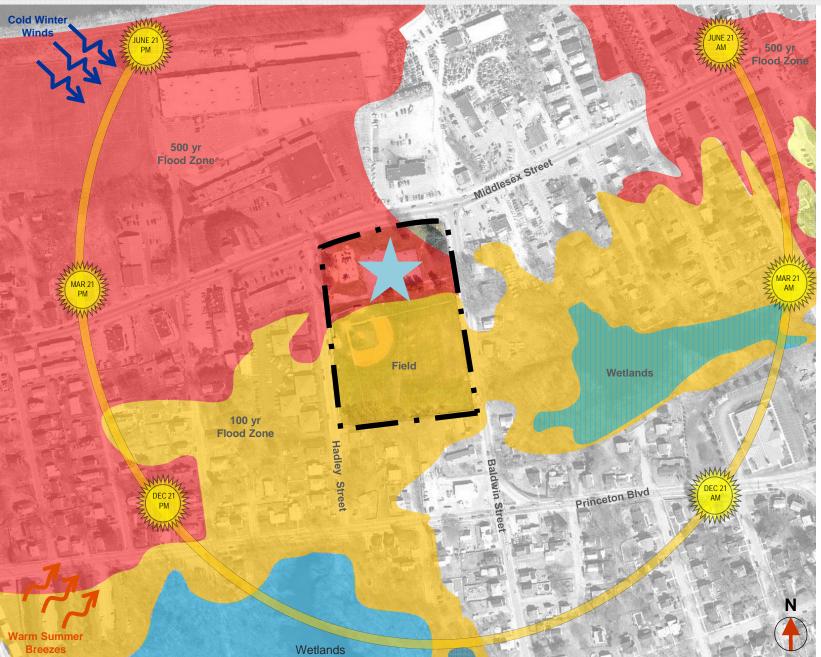
# Preliminary Site: Princeton Blvd



- 3 Acres +/-
- Not currently owned by the City
- Church and private school occupy a full city block
- Main transportation route and ease of access



### Preliminary Site: Hadley Park



- 5+ Acres
- Site owned by town
- Site slotted for school location in the past
- Currently is a park with athletic field
- Site in 100/500 year flood zones
- Main transportation route and ease of access

