Carver Elementary School

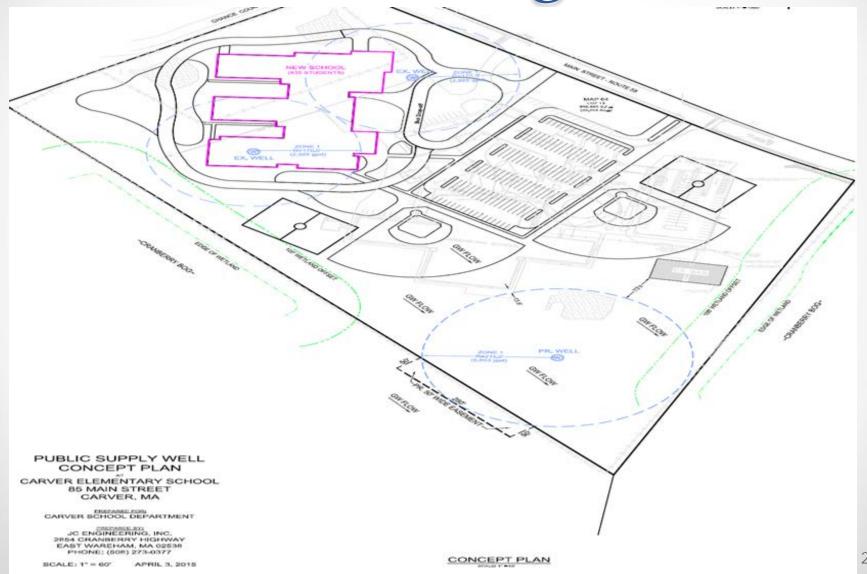


Carver School Building Committee Meeting April 9th, 2015

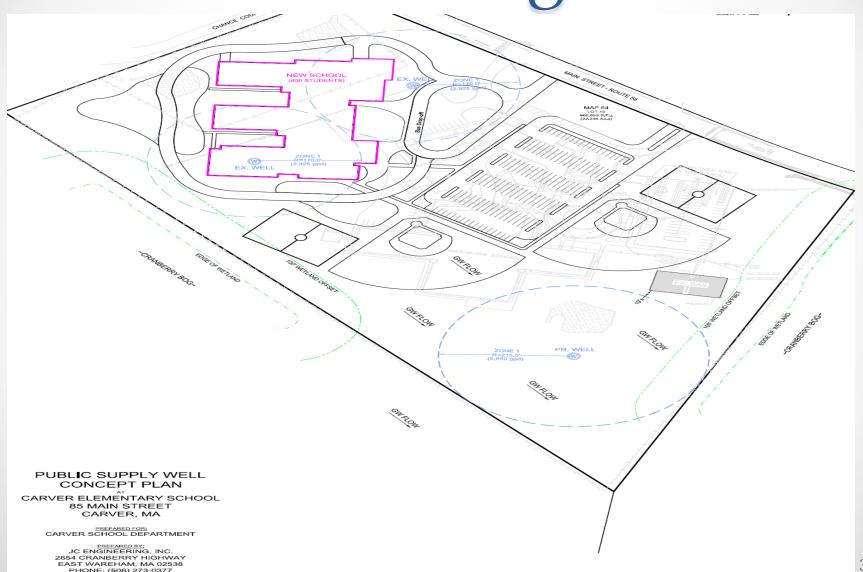




Well Investigation



Well Investigation

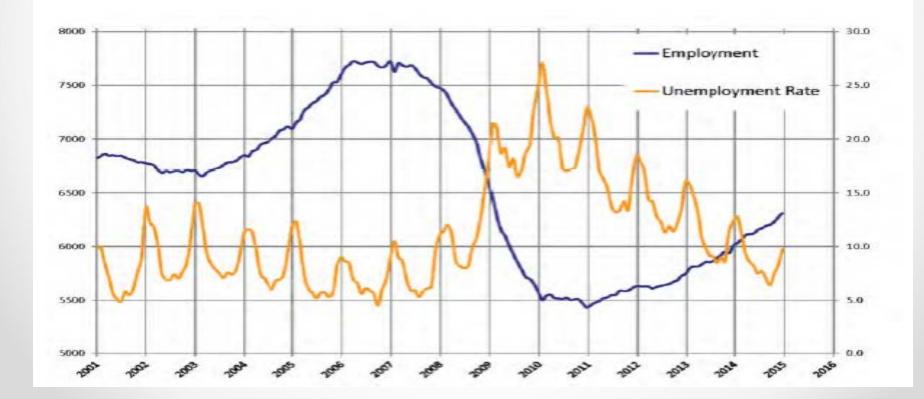


Construction Reports

Construction Unemployment Rate Close To Long-Term Average

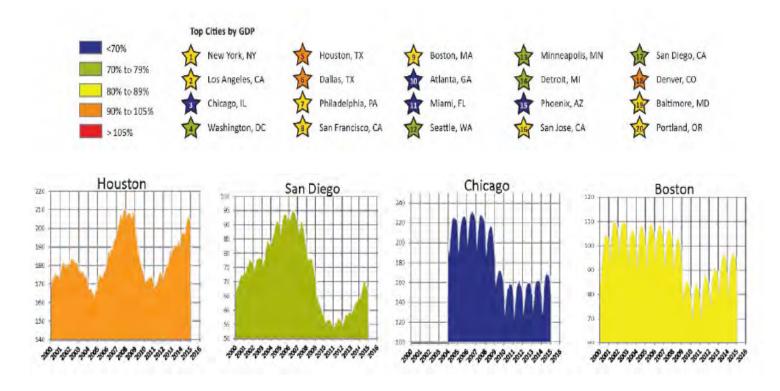
 Unemployment seasonally fluctuating between 5% - 12% will tend to put upward pressure on labor costs similar to 2004-2007.

THE CONSTRUCTION UNEMPLOYMENT RATE in the US has been cycling downward and appears to be stabilizing near the 10% rate, which is similar to the benchmark established in the mid 2000's. A range of 5-12% is considered stable. However, the increase in employment indicates that this rate reduction is mostly due to attrition in the labor force as well as new jobs. Unemployment seasonally fluctuating between 5% - 12% will tend to put upward pressure on labor costs similar to 2004-2007.

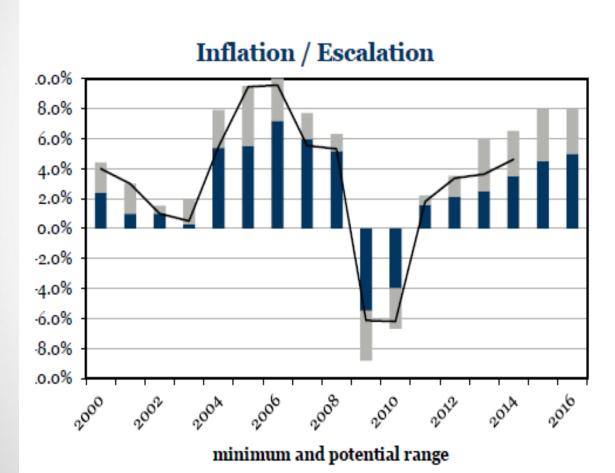


Construction Reports

CAPACITY UTILIZATION RATE is calculated by taking the ratio of current construction employment to the peak construction employment, and allowing for a sustainable rate of growth. A utilization rate of greater than 85% will begin to put upward pressure on construction labor costs. At present 50% of the states have warmed to either a yellow or orange Labor Utilization Rate. As seen by the top 20 US Cities (by GDP) 55% have already warmed to either a yellow or orange labor utilization rate.



Construction Reports



Prior to economic expansion and then downturn, long-term escalation averaged 3.5% for 20 years. I do not see any scenario which has us return to escalation as low as that long-term average at least for several years beyond the above noted predictions.

Potential inflationary periods, declining productivity and even slight continued margin growth for several years lead me to recommend a minimum long-term escalation beyond 2016 of no less than 4%.

Preliminary Site/Build Options Cost Variables

** DRAFT/PRELIMINARY - ESTIMATED "CONSTRUCTION COSTS" AND "SOFT COSTS" - DRAFT/PRELIMINARY

Carver Elementary School Project

Sub-Total Incl. Contin/Escal

General Requirements (2%)

GMP Contingency (3% in 2011)

Overhead and Fee (3% in 2015 Estimate)

Design and Pricing Contingency (8% Total in 2011 Estimate, 12% in 2015 Estimate)

CMaR Fee (2.1% in 2011)

Sub-Total

Permit Sub-Total

Bonds (0.8%)

Insurance (1.2%)

	[in 2011 dollars]	[escalated 4 years]		2015 CONCEPTS	
	Option B3 [2011]	Option B3 [2015]	Option A	Option C1	Option E2
2015 DATA IS ROUGH ORDER MAGNITUDE ESTIMATE OF CONCEPTS	Add/Reno 2011 Schematic Design Architect's Reconciled Estimate	Add/Reno 2011 Schematic Design Architect's Reconciled Estimate (ESCALATED)	Add/Reno 2015 Option	New Construction 2 Story, West Side New Well	New Construction 3 Story, West Side New Well
	139,900SF	139,900SF	118,051SF	112,350SF	115,200SF
New Elementary School (PreK-5)				\$27,887,401	\$27,741,344
Gut Reno to Carver Building (34,614 sqft) ((34% RENO OF EXISTING = +1.75 MSBA PTS))	\$25,651,199	\$32,063,999	\$8,454,313	-	-
New Elementary School Addition	Incl in Reno Value Above	Incl in Reno Value Above	\$20,780,139	-	-
Remove Hazardous Materials	Incl in Demo Value Below	Incl in Demo Value Below	\$475,000	\$475,000	\$475,000
Demolish Carver Building (34,614 sqft)	Incl in Demo Value Below	Incl in Demo Value Below	-	\$293,912	\$293,912
Demolish Washburn Building (64,392 sqft)	\$1,766,145	\$2,207,681	\$468,928	\$468,928	\$468,928
Relocate Storage Shed	\$0	\$0	\$62,080	\$62,080	\$62,080
Sitework	\$2,368,991	\$2,961,239	\$3,629,503	\$3,699,862	\$3,659,838
Sub-Total	\$29,786,335	\$37,232,919	\$33,869,963	\$32,887,183	\$32,701,102
General Conditions (14% in 2011, 7% in 2015)	\$4,202,581	\$5,253,226	\$2,370,897	\$2,302,103	\$2,289,077
Phasing Premium (2% in 2015 Estimate)	Carried above?	Carried above?	\$677,399	-	-

\$2,255,674

\$36,244,590

\$36,244,590

Incl in GCs

Incl in GCs

Incl in GCs

\$36,244,590

\$1,108,751

\$3,067,544

\$41,134,652

\$713,767

\$2,819,593

\$45,305,738

\$45,305,738

Incl in GCs

Incl in GCs

Incl in GCs

\$45,305,738

\$1,385,939

\$892,209

\$3,834,430

\$51,418,315

Option B3

Option B3

2015 CONCEPTS

\$1,644,359

\$36,833,645

Incl in GC/OH

\$36,833,645

\$239,419

\$460,421

\$37,533,484

\$986,615

\$4,504,018

\$43,024,118

\$2,032,198

\$38,950,457

Incl in GC/OH

\$38,950,457

\$253,178

\$486,881

\$39,690,516

\$1,016,099

\$4,762,862

\$45,469,477

\$1,635,055

\$36,625,234

Incl in GC/OH

\$36,625,234

\$238,064

\$457,815

\$37,321,114

\$981,033

\$4,478,534

\$42,780,680

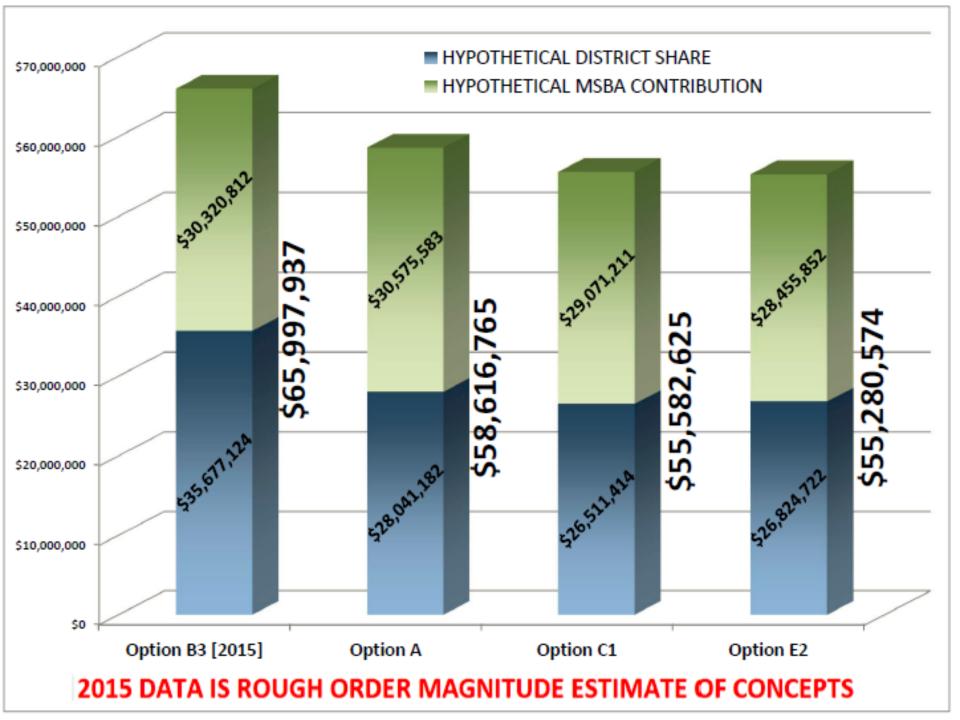
Total Construction Cost (HMFH/PM&C Estimate)

Escalation (6.5% in 2011 Estimate, 5% for New and 6% for Reno in 2015 Estimate, Due to Longer Construction Duration)

** DRAFT/PRELIMINARY - ESTIMATED "CONSTRUCTION COSTS" AND "SOFT COSTS" - DRAFT/PRELIMINARY

Carver Elementary School Project

	Option B3 [in 2011 dollars]	Option B3 [escalated 4 years]		2015 CONCEPTS	
2015 DATA IS ROUGH ORDER MAGNITUDE ESTIMATE OF CONCEPTS	Option B3 [2011] Add/Reno 2011 Schematic Design Architect's Reconciled Estimate	Option B3 [2015] Add/Reno 2011 Schematic Design Architect's Reconciled Estimate (ESCALATED)	Option A Add/Reno 2015 Option	Option C1 New Construction 2 Story, West Side New Well	Option E2 New Construction 3 Story, West Side New Well
	139,900SF	139,900SF	118,0515F	112,350SF	115,200SF
PROJECT SOFT COST DATA IS BASED UPON PERCENTAGE OF CONSTRUCTION COSTS FOR BOTH 2011 AND 2015 OPTIONS					
PROJECT SOFT COSTS (ROUGH ORDER MAGNITUDE PROJECT BY PMA)	\$8,912,218	\$10,609,024	\$9,627,464	<u>\$9,223,979</u>	\$9,183,812
Design & Engineering & Supplemental Costs (Est. 11%)	\$4,524,812	\$5,656,015	\$5,001,642	\$4,732,653	\$4,705,875
OPM Costs (Est 3.5%)	\$1,439,713	\$1,799,641	\$1,591,432	\$1,505,844	\$1,497,324
Legal Fees - Approximate	\$40,000	\$40,001	\$40,000	\$40,000	\$40,000
Owner Subconsultants & Testing Costs (Est 2%)	\$822,693	\$1,028,366	\$909,390	\$860,482	\$855,614
Utilities Allowance (Est)	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Movers Allowance (Est)	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
FF&E Design, Specification & Punchlist	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
FF&E (MSBA Allowance @ \$1200/Student X 750)	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000
Technology/AV (MSBA Allowance @ \$1200/Student X 750)	\$900,000	\$900,000	\$900,000	\$900,000	\$900,000
LEED/MACHPS Fee Allowance (Est)	\$10,000	\$10,001	\$10,000	\$10,000	\$10,000
Total Project Cost	\$50,046,870	\$62,027,339	\$55,096,941	\$52,248,097	\$51,964,493
	423/213/212	ψ-2-/-2-1/-2-2	425/225/212	4-2/210/001	<i>422,223,122</i>
Owner Construction Contingency (Est. 7%)	\$2,879,426	\$3,599,282	\$3,182,863	\$3,011,688	\$2,994,648
Owner Soft Cost Contingency (Est. 3.5%)	\$311,928	\$371,316	\$336,961	\$322,839	\$321,433
Total Project Budget	\$53,238,223	\$65,997,937	\$58,616,765	\$55,582,625	\$55,280,574
"WHAT-IF SCENARIO" - TYPICAL INELIGIBLE COSTS PER MSBA REGS					
GMP Contingency Reimbursement - assume 33% of budget eligible	\$731,775.66	\$914,719.58	\$0.00	\$0.00	\$0.00
Owner Contingency Reimbursement - assume 33% of budget eligible	\$2,106,293.15	\$2,620,594.61	\$2,323,084.25	\$2,200,788.17	\$2,188,613.50
Sitework Costs exceeding 8% of Direct Building Cost	\$316,895.08	\$396,118.85	\$1,290,746.84	\$1,468,869.92	\$1,440,530.48
Legal Fees - Approximate Moving Costs	\$40,000.00 \$100,000.00	\$40,001.00 \$100,000.00	\$40,000.00 \$100,000.00	\$40,000.00 \$100,000.00	\$40,000.00 \$100,000.00
Ineligible Abatement Costs - Approximate Value	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00
Ineligible SF Costs Due to Innefficiencies of Design - Assume 7% on Reno Options, 3% on 3-Story Option	\$1,795,583.93	\$2,244,479.91	\$2,046,411.64	N/A	\$832,240.32
Forecast Overrun Due To Discrepency Between Architect Reconciled Estimate and Form 3011 Budget	\$5,843,808.00	\$7,304,760.00	N/A	N/A	N/A
TOTAL POTENTIAL INELIGIBLE COSTS	\$11,034,355.82	\$13,720,673.94	\$5,900,242.73	\$3,909,658.09	\$4,701,384.30
POTENTIAL <u>ELIGIBLE</u> COSTS (PRORATED FOR INELIGIBLE SITE & OTHER COSTS) POTENTIAL REIMBURSEMENT FROM MSBA @ Base Rate of 56.26% of ELIGIBLE COSTS (58% on Reno)	\$42,203,867 \$24,478,243	. , ,	\$52,716,523 \$30,575,583	\$51,672,967 \$29,071,211	\$50,579,189 \$28,455,852
TO TENTIAL REIMBORDEMENT FROM MIDDA @ DODE RATE OF 20,20% OF ELIGIBLE COSTS (20% Off Refig)	\$24,470,243	\$30,520,812	\$30,575,585	\$29,071,211	\$28,455,852
POTENTIAL TOWN SHARE OF TOTAL PROJECT BUDGET	\$28,759,980	\$35,677,124	\$28,041,182	\$26,511,414	\$26,824,722
	8.48%	<u>34.57%</u>	<u>5.77%</u>	BASELINE	1.18%



MSBA - KEY DATES

- 3/10/15 SBC Meeting SBC Selection of Preferred Schematic Option
- 3/25/15 SBC Approve Preferred Option
- 4/1/15 Preferred Option Estimate to MSBA
- 4/09/15 SBC Approve Preferred Schematic Report for Submission to MSBA
- 4/29/15 or 5/13/15 Facilities Assessment Subcommittee
- 6/3/15 MSBA Board Approval to Proceed into Schematic Design
- 9/28/15 Schematic Design Submittal to MSBA
- 11/18/15 MSBA Board Approval of Schematic Design
- 12/2/15 Carver Town Meeting/Vote on Project Funding

Workplan Update

Carver Elementary School FS Phase Work Plan: 4/16 Subm	ission				2015													1								
HMFH Architects 2/23/15			Dec		lan			Feb			Ma	arch			Λ	pril	_		-	May				Jun	e	
	Complete	Duration																			Щ				\Box	\square
BC Meetings			_	\Box	•	• (_ !!		•	-	_	_	-	\rightarrow	+	1	\vdash	\vdash
Regulatory Agency Meetings			-		_			_	•	14	•	+				_	_					\rightarrow	+	\perp	\vdash	=
reliminary Design Program (PDP)	2/5/15	5 weeks														_	\perp		_						\perp	
Educational Program							\perp		Ш							_	_						_			
Review/Revise Existing Ed Program							\perp									_	_									
Meetings with Staff and Teachers (as needed)																_	_						\perp			
Finalize Ed Program																	_									
Revise Space Summary																_	_									
SBC Approve Ed Program & Space Summary						*																				
Evaluation of Existing Conditions																										
Site Development Requirements Review																										
Meeting w/ Town Departments	1/21/15					7	-																			
Preliminary Evaluation of Alternatives																										
Review/Update Potential Alternatives																										
Identify Preliminary Sites Locations																										
SBC Approve Site Selections & Alternatives				П		7	7		П		┰			П		\neg	\neg					\neg	\neg		\Box	
Analysis of Sites for Feasibility																\neg			1			\neg				
Preliminary Plan and Site Diagrams																\neg	\neg							1		
SBC Approve Planning Diagrams				П			7	7			1			П		\neg	\neg		TÎ			\top	\neg	T	\Box	
Cost Evaluation of Alternatives					\neg						┰					\neg	\neg	\neg			\neg	\top	\top		\Box	\Box
Compile PDP Report					\neg						\top					\neg	\neg		_			\neg	\top			
SBC Approve Cost & PDP Submission								*								\neg	\neg					\top	\neg		\Box	
MSBA Review Period							\top										\exists									
referred Schematic Report	4/16/15	10 weeks				\neg	\top	$\overline{}$											i			\equiv	\mp		\blacksquare	=
Meeting with MSBA	2/12/15	20 110010		\vdash	\rightarrow	-	+	+			-						_	$\overline{}$	_		$\overline{}$	\pm	-	1	\vdash	-
Update Design Program				\vdash	\rightarrow	\pm	+	1							-	\dashv	\dashv		\dashv			\pm	+	1	+	
Update Existing Conditions Evaluation					_		+	1						Н		\dashv	_					_	+	1	+	
Preliminary Development of Options					_		+	+			_			Н	-	\dashv	\dashv		-			+	+	1	+	
SBC Preliminary Options Feedback				-	\rightarrow	-	+	1		_	-	+			-	\rightarrow	\rightarrow	_	-			\rightarrow	+	+	+	
Further development of options				\vdash	_	-	+	+	\vdash	-	-	II.		Н	-	\dashv	\rightarrow	-	_		_	+	+	+	+	
Team Respond to MSBA PDP Review Comments			_	\vdash	-	_	+	╁	$\overline{}$		-			\vdash	-	\rightarrow	\rightarrow	-	-		\rightarrow	+	+	+	+	
Meeting w/ DEP re Wells	tbd				\rightarrow	_	+	+			-	-		Н	-	\dashv	\dashv	-	-		-	+	+	-	+	
Additional Wells Investigations (as needed)	Loc			\vdash	\rightarrow	+	+	+	\vdash		-				-	\dashv	\rightarrow	\rightarrow	-		\rightarrow	+	+	+	+	
Green Charrette	3/6/15			\vdash	\rightarrow	_	+	-	\vdash		+	-			-	\dashv	\rightarrow	-	-		-	+	+	+	+	
SBC Further Options Feedback	3/6/13			\vdash	\rightarrow	_	+	┿	\vdash		-	4		\vdash		\rightarrow	\rightarrow	-	-		-	+	+	+	+	
SBC Approval of High Performance Objectives			\vdash	\vdash	\rightarrow	-	+	+	\vdash	_	+	×		\vdash	-	\rightarrow	\rightarrow	-	-1		-	\rightarrow	+	+	+	
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Development of Preferred Option			-		-	-	+	-			+					\rightarrow	\rightarrow	-			-	+	+	+	\vdash	
Conceptual Site Plans					-	_	+	+	\vdash		-					-	\dashv	-	-		-	+	+	-	\vdash	
Preliminary Building Massing Studies			\vdash	\vdash	\rightarrow	-	+	┿	\vdash		+				_	\dashv	\dashv	-	-		-	+	+	+	\vdash	
SBC Finalize Selection of Preferred Option				\vdash	\rightarrow	-	+	-	\vdash		-	+		A		\dashv	\dashv	\rightarrow	-		\rightarrow	+	+	-	\vdash	
Cost Estimate/Budget/Schedule			-		\rightarrow	-	+	┈	\vdash		+	+				_	\dashv	-	-		-	+	+	+	\vdash	
SBC Approve Costs & Schedule			\vdash	\vdash	-	-	+	┿	\vdash		-	+			-	k	_	-	-	-	-	+	+	-	\vdash	
Development of Preferred Schematic Report				\vdash	\rightarrow	-	+	+	\vdash		+	+						-	-		-	+	+	+	\vdash	
SBC Approve PSR Submission			-	\vdash	_	_	+	+	\vdash		-	+		\vdash	-	4	X	_	_		\rightarrow	+	+	-	\vdash	\vdash
Submit PSR to MSBA	4/16/15		-		\rightarrow	_	+	-	\vdash		-	+		\vdash		4		\perp	-	_	\rightarrow	+	+	-	\vdash	
Town Approval of Funding for SD			_	\Box	-	-	+	-	\vdash		-	+		\square	-	_	\star							and the same	\vdash	
MSBA Review Period			_					_	\blacksquare		_	1				\perp								#	\vdash	
ASBA Approval to Proceed to Schematics	6/3/15	7 weeks																	- 1					-	-	

Detailed Schedule

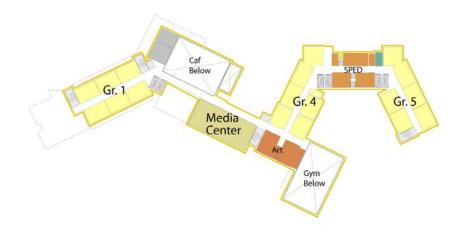
/ ID	Activity Name	Original Start Duration	Finish	A J F M A M J J A S O N D J F M A M J J A S O N D J A S O N D J F M A M J J A S O N D J F M A M J J A S O D D D J F M A M J J A S O D D D D D D D D D D D D D D D D D D
Preferred :	Schematic Report	97 20-Jan-15 A	03-Jun-15	
■ PSR Sub	omission	97 20-Jan-15 A	03-Jun-15	
A1710	Town Approval of Funding for SD	1 20-Jan-15 A	20-Jan-15 A	Town Approval of Funding for SD
A1560	Meeting with MSBA	1 18-Feb-15 A	18-Feb-15 A	Meeting with MSBA
A1590	Preliminary Development of 3 Options	5 13-Feb-15 A	24-Feb-15 A	Preliminary Development of 3 Options
A1580	Update Existing Conditions Evaluation	10 06-Feb-15 A	24-Feb-15 A	Update Existing Conditions Evaluation
A1600	SBC Preliminary Options Feedback	1 24-Feb-15 A	24-Feb-15 A	SBC Preliminary Options Feedback
A1540	Green Design Charrette Meeting	1 06-Mar-15 A	06-Mar-15 A	Green Design Charrette Meeting
A1610	Further Development of 3 Options	5 24-Feb-15 A	09-Mar-15 A	Further Development of 3 Options
A1550	Approval of High Performance Objectives	1 10-Mar-15 A	10-Mar-15 A	Approval of High Performance Objectives
A1670	Cost Estimate/Budget/Schedule	11 23-Feb-15 A	23-Mar-15 A	Cost Estimate/Budget/Schedule
A1620	SBC Selection of Preferred Options	1 10-Mar-15 A	23-Mar-15 A	SBC Selection of Preferred Options
A1570	Update Design Program	10 06-Feb-15 A	27-Mar-15 A	Update Design Program
A1630	Development of Preferred Option	10 10-Mar-15 A	08-Apr-15 A	Development of Preferred Option
A1640	Conceptual Building/Site Plans	15 25-Feb-15 A	08-Apr-15 A	Conceptual Building/Site Plans
A1650	Preliminary Building Massing Studies	10 18-Mar-15 A	08-Apr-15 A	Preliminary Building Massing Studies
A1660	SBC Approve Preferred Option	1 09-Apr-15	09-Apr-15	SBC Approve Preferred Option
A1680	SBC Approve Cost & Schedule	1 09-Apr-15	09-Apr-15	SBC Approve Cost & Schedule
A1690	Development of Preferred Schematic Report (PSR)	5 02-Apr-15 A	10-Apr-15	Development of Preferred Schematic Report (PSR)
A1700	Local Actions and Approval Certification for PSR	1 10-Apr-15	10-Apr-15	Local Actions and Approval Certification for PSR
A1705	Compile & Submit PSR	3 13-Apr-15	15-Apr-15	Compile & Submit PSR
A1740	Facilities Assessment Subcommittee (4/29 or 5/13)	1 29-Apr-15*	29-Apr-15	→ Facilities Assessment Subcommittee (4/29 or 5/13)
A1720	MSBA Review Period	35 16-Apr-15	03-Jun-15	MSBA Review Period
A1730	MSBA Approval to Proceed to Schematic (6/3/15 Board Ti	1 03-Jun-15	03-Jun-15*	MSBA Approval to Proceed to Schematic (6/3/15 Board Target)
Schematic D	Design (MSBA Module 4)	130 04-Jun-15	02-Dec-15	
A1750	Schematic Design	80 04-Jun-15	23-Sep-15	Schematic Design
A1760	Submit SD for 11/18 MSBA Board Meeting	3 24-Sep-15	28-Sep-15	→ Submit SD for 11/18 MSBA Board Meeting
A1766	Facilities Assessment Subcommittee (Possibly N/A)	1 15-Oct-15*	15-Oct-15	Facilities Assessment Subcommittee (Possibly N/A)
A1765	MSBA Review Period	35 29-Sep-15	16-Nov-15	MSBA Review Period
A1770	MSBA Approval of Schematic & Project Scope Budget Ag	1 18-Nov-15*	18-Nov-15	
A1780	Town Vote	10 19-Nov-15	02-Dec-15	-■ Town Vote

Preliminary Building/Site Option A – Add/Reno



Preliminary Building/Site Option A – Add/Reno





FIRST FLOOR PLAN

SECOND FLOOR PLAN



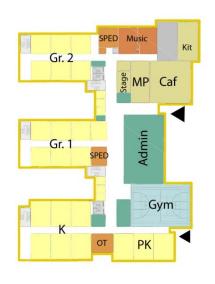
Preliminary Building/Site Option A – Add/Reno

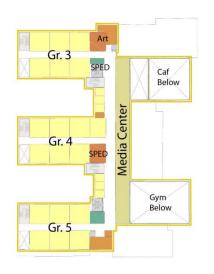


Preliminary Building/Site Option C1 – N.C.



Preliminary Building/Site Option C1 – N.C.





FIRST FLOOR PLAN

SECOND FLOOR PLAN



Preliminary Building/Site Option C1 – N.C.

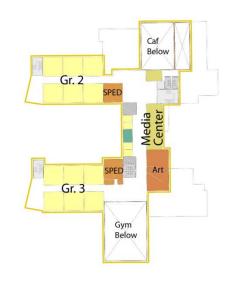


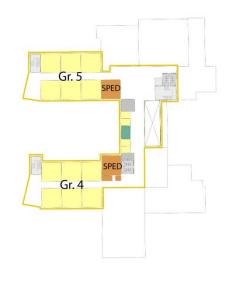
Preliminary Building/Site Option E2 – N.C.



Preliminary Building/Site Option E2 – N.C.







FIRST FLOOR PLAN

SECOND FLOOR PLAN

THIRD FLOOR PLAN



Preliminary Building/Site Option E2 – N.C.



Public Comment Period on Proposed Options

SBC Discussion

- Vote for Selection of Preferred Schematic Option
- Vote to Approve Preferred Schematic Report ("PSR") Submittal

Discussion / Questions?

Carver School Building Committee Meeting April 9th,2015



