Community Forum No.4

January 21, 2016

Feasibility Study

# Bourne Elementary Schools Community Workshop



### Agenda

- Introductions
- MSBA Process
- Project Schedule
- Defining the Need
- Selecting the Best Alternative
- Next Steps
- Questions

### **School Building Committee**

James L. Potter

Christopher Hyldburg

Steven M. Lamarche

Peter J. Meier

Edward S. Donoghue

Thomas M. Guerino

Jonathan Nelson

Elizabeth Carpenito

Kathy Anderson

Mary Jo Coggeshall

**Rick Howe** 

Richard A. Lavoie

William Meier

Natasha Scarpato

Mitch McClain

Chairman, School Building Committee

Chairman, School Committee

Superintendent of Schools, BPS

**Board of Selectmen** 

Director of Business Services, BPS

**Town Administrator** 

Director of Facilities, Town of Bourne

Prinicipal, Bournedale Elementary School

Member, School Building Committee

Member, School Building Committee

Member, School Building Committee

Member, Finance Committee

Member, School Building Committee

Member, School Building Committee

**Bourne School Committee** 

### **Design Team**

Kent Kovacs Flansburgh Architects

Betsy Garcia Flansburgh Architects

### **Owner's Project Manager**

Joel Seeley

Symmes, Maini & McKee

### **MSBA Process**

- MSBA is an independent public authority that administers and funds a program for grants to eligible cities, towns, and regional school districts for school construction and renovation projects.
- MSBA mandates a multi-step rigorous study and approval process
- MSBA will fund 43.84% plus incentives of eligible project cost for an approved project if accepted by the voters of Bourne

### **MSBA Process**

Submitted to MSBA **Submit to MSBA Submit to MSBA** 12/18/2015 4/07/2016 8/4/2016 Refine top Develop Existing **MSBA Board MSBA Board Local Funding Conditions** selected options **Approval Approval Approval** 09/28/2016 05/25/2016 option Options Visioning detailed Consensus Programming Cost Preliminary **Estimates** options Schematic PDP **PSR** Design **Preliminary Design Preliminary** 

**Schematic Report** 

**Program** 

### **MSBA Process**

Submitted to MSBA 12/18/2015

- Existing Conditions
- Visioning
- Programming
- Preliminary options

**Submit to MSBA** 4/07/2016

- Refine top options
- Options detailed
- CostEstimates

Submit to MSBA 8/4/2016

Develop selected option

**MSBA Board** 

**Approval** 

05/25/2016

Consensus

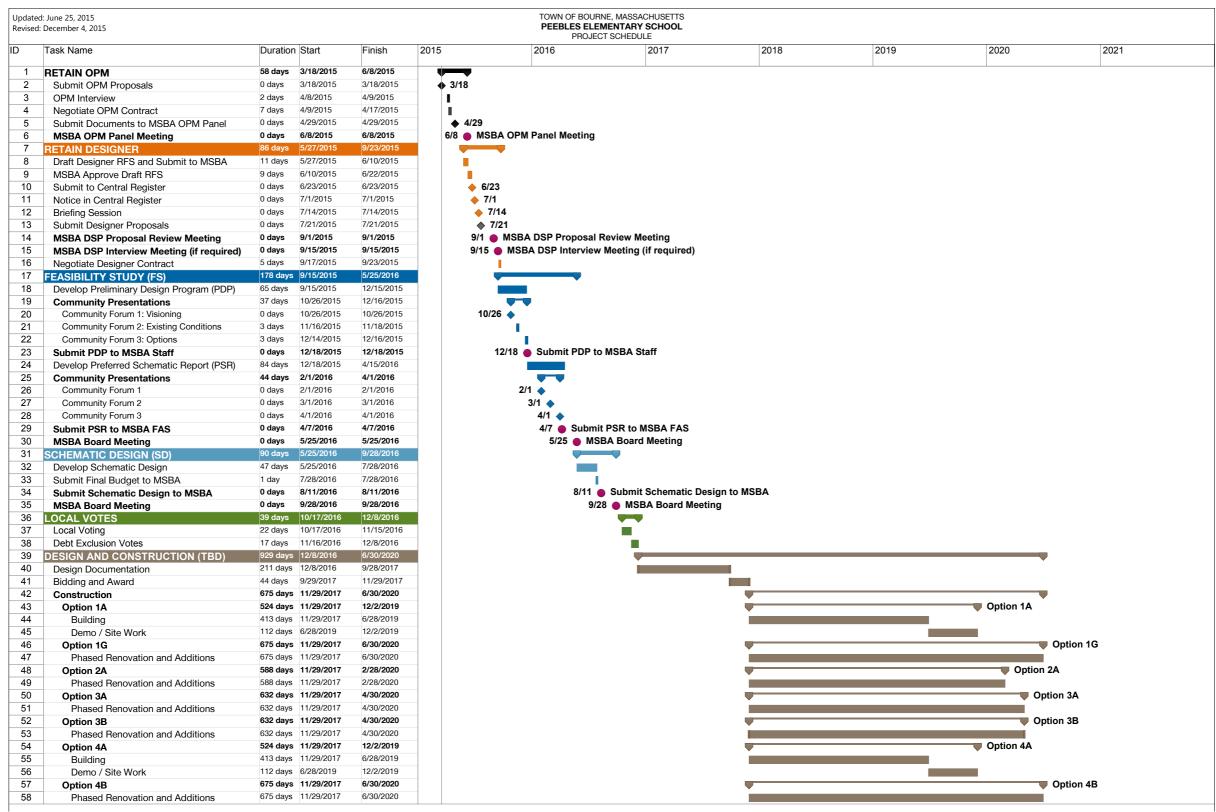
MSBA Board Approval 09/28/2016

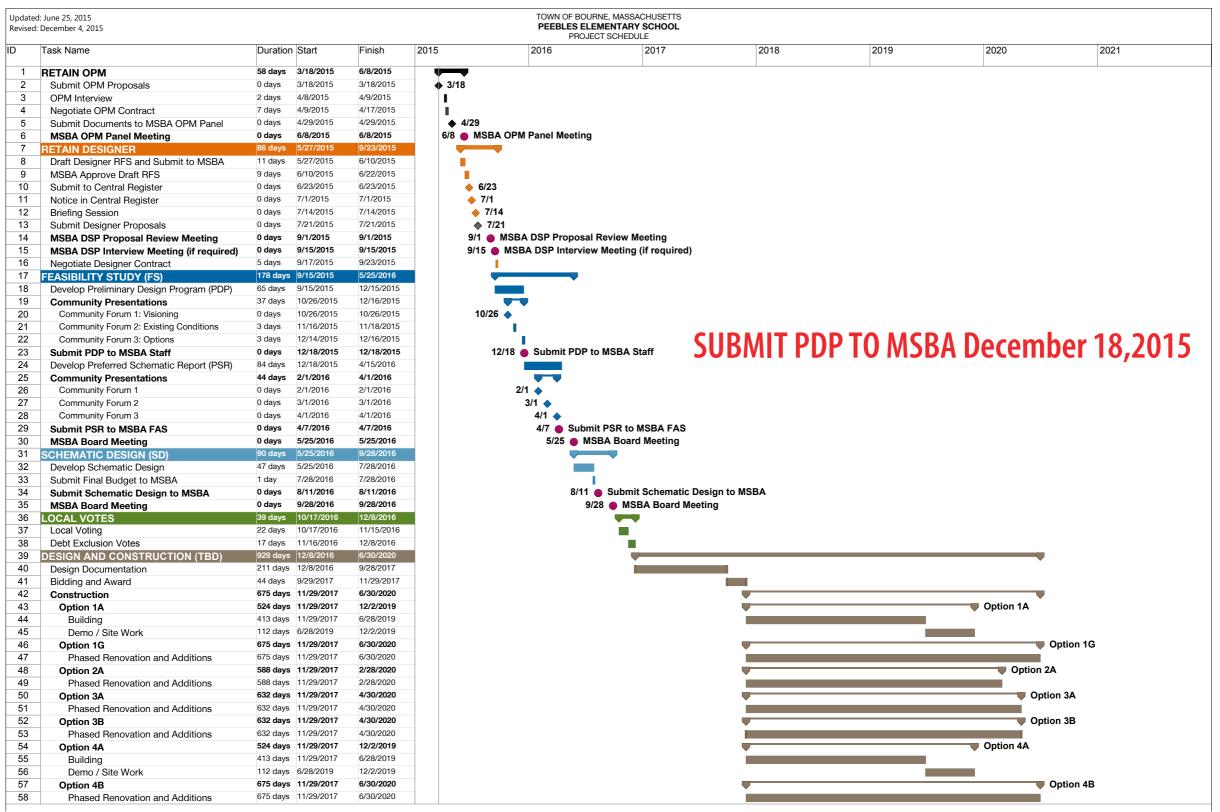
Local Funding Approval

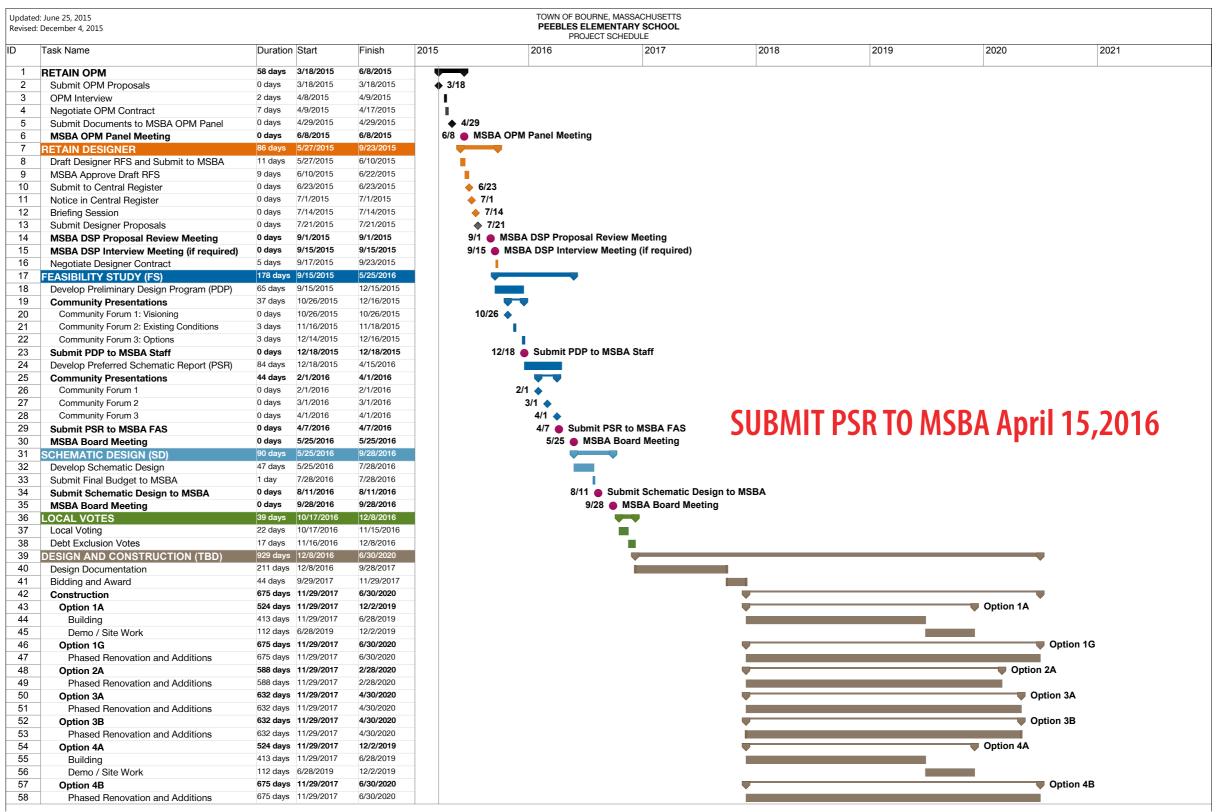
PDP
Preliminary Design
Program

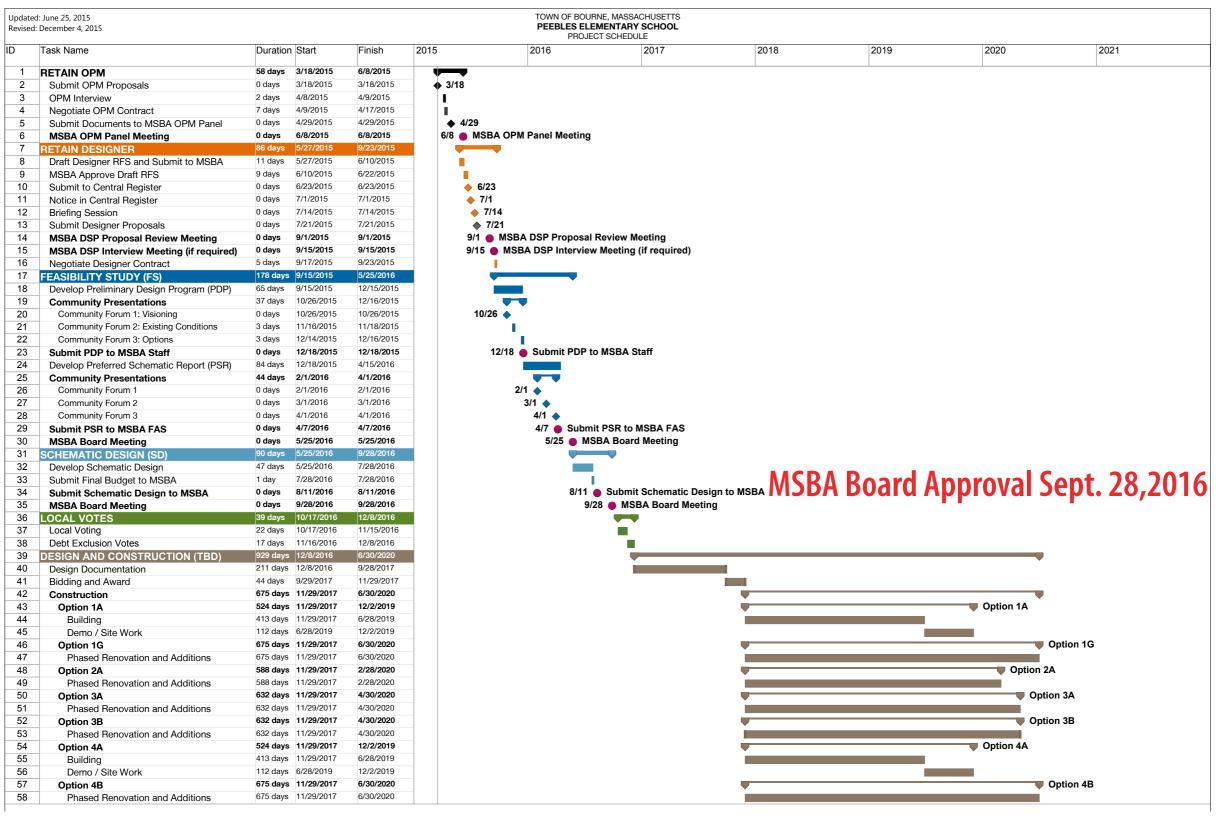
PSR
Preliminary
Schematic Report

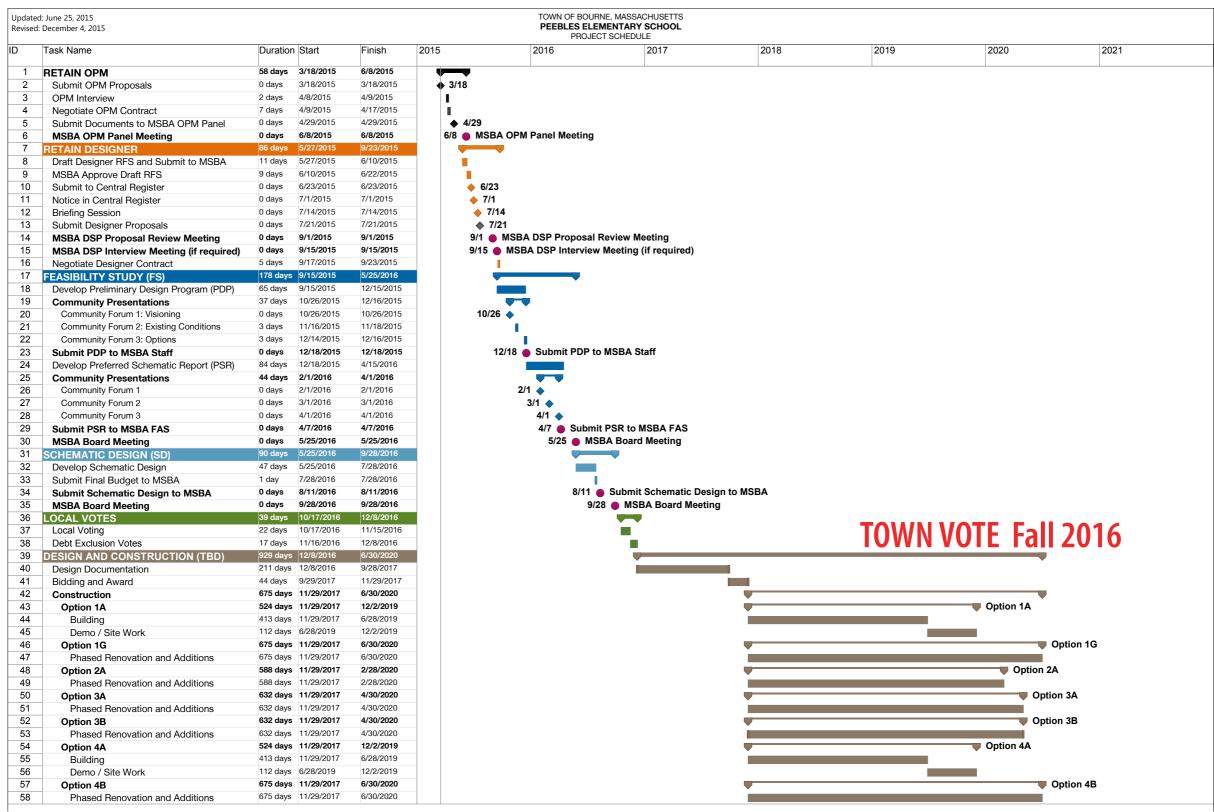
Schematic Design











### **Completed Milestones**

- January 09, 2012 Bourne submits SOI to MSBA
- December 16, 2014 MSBA Approves Student Enrollment
- February 11, 2015 MSBA Executes Feasibility Agreement
- June 08, 2015 Town retains Owner's Project Manager (OPM)
- September 22, 2015 Town retains Architect
- October 17, 2015 Community Forum No.1
- November 17, 2015 Community Forum No. 2
- December 08, 2015 Community Forum No. 3
- December 18, 2015 PDP Submitted to the MSBA

### **Completed Tasks**

- Educational Program
- Visioning Program
- Space Summary Spreadsheets
- Building Evaluation
- Structural Evaluation
- MEP Evaluation
- Hazardous Materials Inspection
- Phase 1 Environmental Assessment
- Site Evaluation
- Traffic Evaluation

- Options Development
- Comparison Matrix
- Cost Analysis
- Options Evaluation
- Design Alternatives reduced from 7 to 4
- PDP Report Submitted to the MSBA

## Defining the Need

### **Defining the NEED**

- Provide a long term solution to resolve the existing deteriorating school
- Provide educational spaces that meet the MSBA state standards
- Update the school to meet the "Visioning" workshop goals
- Provide 21<sup>st</sup> Century Educational spaces
- Provide a school that is safe, code compliant, and a place Bourne can be proud of

### **Defining the NEED - Existing Conditions**

### **Peebles Elementary School**

Year Built: 1953,1959 (62 yrs. old)

**Site** Poor drainage, traffic, and HC accessibility

**Exterior** Cracks, leaks, and lack of insulation

**Interior** Worn out, broken, and needs replacement

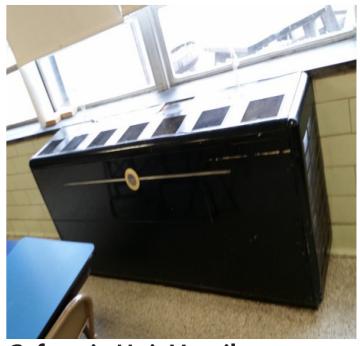
**MEP systems** Antiquated, inefficient, & poor temperature control



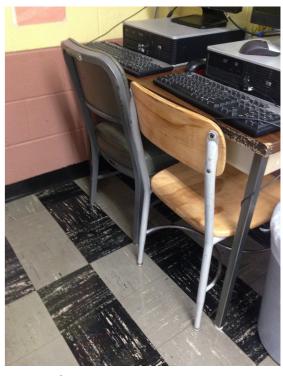
**Vinyl Siding at Spandrel** 



Storage



**Cafeteria Unit Ventilator** 



**Furniture** 

### **Defining the NEED - Existing Conditions**

### **Bournedale Elementary School**

**Year Built: 2009 (7 yrs. old)** 

**Site** Good site circulation and proper drainage

**Exterior** Exterior envelope is in good condition. Leaks at roof to wall intersection

**Interior** Finishes are in good condition. Acoustics need to be inproved in limited spaces

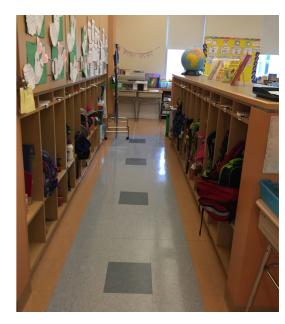
**MEP systems** Systems are functioning properly and have continued life expectancy







Roofing



**Cubbies** 

### Defining the NEED - Visioning and 21st Century Learning

#### 1. Community Connected

- A Place You Want to Be
- Future Orientation with Connections to **Tradition**
- Community Access

#### 2. Purposefully Innovative & Creative

- Visible Learning
- Flexible and Adaptable Learning **Environments**

#### 3. Collaborative & Interconnected

Learning Communities

#### 4. Connections to 21st-Century Learning

- Inquiry-Based Learning
- Teacher as Designer





### **Defining the NEED - Meeting State Standards?**

- The Existing Peebles Elementary School does not meet the state standards for space requirements in *Special Education, Physical Education, Library, Administration, Guidance, Arts,* and *Music*
- The Existing Bournedale School does not meet the state standards for space requirements in *Special Education* and *Physical Education*

# Selecting the Best Design Alternative

### **MSBA Study Scope**

Option 1 Option 2 Option 3 Option 4

Grades K to 4

Neighborhood Elementary School

250 students

Grades
PreK to 4

District-wide Elementary School

725 students

Grades
PreK to 5

District-wide Elementary School

885 students

Grades K to 5

Neighborhood Elem. School with Districtwide 5th grade

410 students

### **MSBA Study Scope**

Option 1

Option 2

Option 3

Option 4

Grades

K to 4

Neighborhood Elementary School

250 students

Grades
PreK to 4

District-wide Elementary School

725 students

Grades
PreK to 5
ELIMATED DUE
TO SCHOOL
SIZE AND
SITE RESTRICTIONS

885 students

Grades K to 5

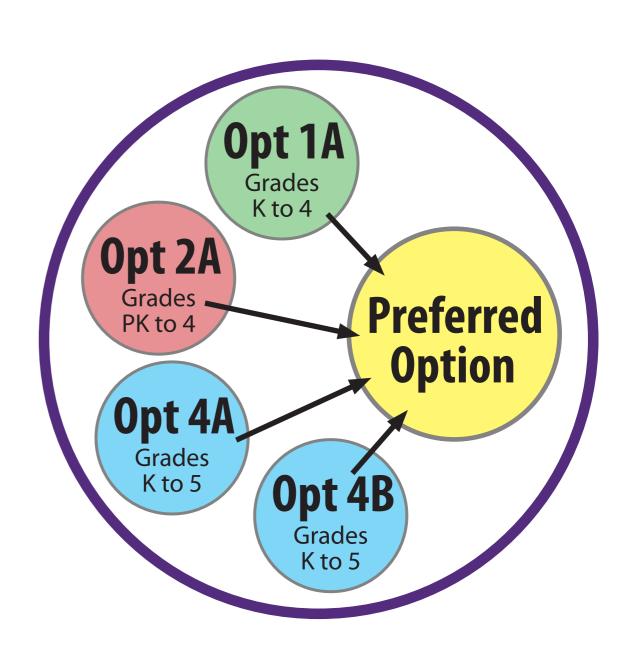
Neighborhood Elem. School with Districtwide 5th grade

410 students

## **Design Selection Process 7 options to 4 (PDP phase)**

- 7 original options plus "Base Repair" option were evaluated
- Matrix of evaluation criteria developed to compare options and costs
- Advantages and Disadvantages were discussed at Community Workshops and School Building Committee meetings
- Two options were eliminated for being too large and restrictive on the existing site
- One option was eliminated for the disruption to students during construction and compatibility with visioning goals
- This leaves 4 options; 1A (K-4), 2A (PK-4), 4A (K-5), and 4B (K-5)

### 4 options to 1 (PSR phase)



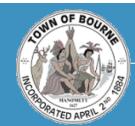
### **Design Selection Process -** Evaluation Matrix

Eva	aluation Criteria
1	Size of School
2	Grade Separation Issues
3	Reinforces Campus Feel
4	Opportunity for Collaboration & Mentoring
5	District-wide Culture and Advantages
6	Traffic Impact
7	Separation of Community / Academic Uses
8	Creation of Community Space
9	Limits Disruption to Students
10	Cost Effectiveness: Operation / Construction
11	Maximum Building Efficiency
12	Least Environmental Impact
13	Most Beneficial Construction Schedule
14	Best Site Option for Neighborhood Schools
15	Adequate Play & Parking Areas
16	Continued Use of Athletic Resources
17	Maximum Score for NE-CHPS / LEED
18	Best Space Adjacencies
19	Best Separation of Parent / Bus / Service Circulation
20	Resolves Geographic Separation by Canal
21	Centralized Elementary Resources
22	Centralized Campus Resources
23	Advantages to Middle School
24	Maximize MSBA Reimbursement

	Total Score by Option*							
	Option 1A	Option 1G	Option 2A	Option 3A	Option 3B	Option 4A	Option 4B	
Committee Member	(250 Students)	(250 Students)	(725 Students)	(885 Students)	(885 Students)	(410 Students)	(410 Students)	
Natasha Scarpato	39	24	44	38	38	57	41	
Mary Jo Coggleshall	47	24	45	40	40	61	49	
Janey Norton	58	50	44	41	44	65	46	
Elizabeth Carpenito	48	24	65	48	41	65	54	
Steven Lamarche	50	41	47	45	45	58	48	
Frederick Howe	33	30	43	40	40	54	43	
James Potter	54	42	57	54	56	55	42	
Edward Donoghue	49	41	41	40	42	54	47	
Richard Lavoie	53	24	50	43	43	56	24	
William Meier	37	37	55	44	44	53	44	
Jonathan Nelson	48	40	42	32	31	59	52	
AVERAGE	47	34	48	42	42	58	45	

#### Ranking:

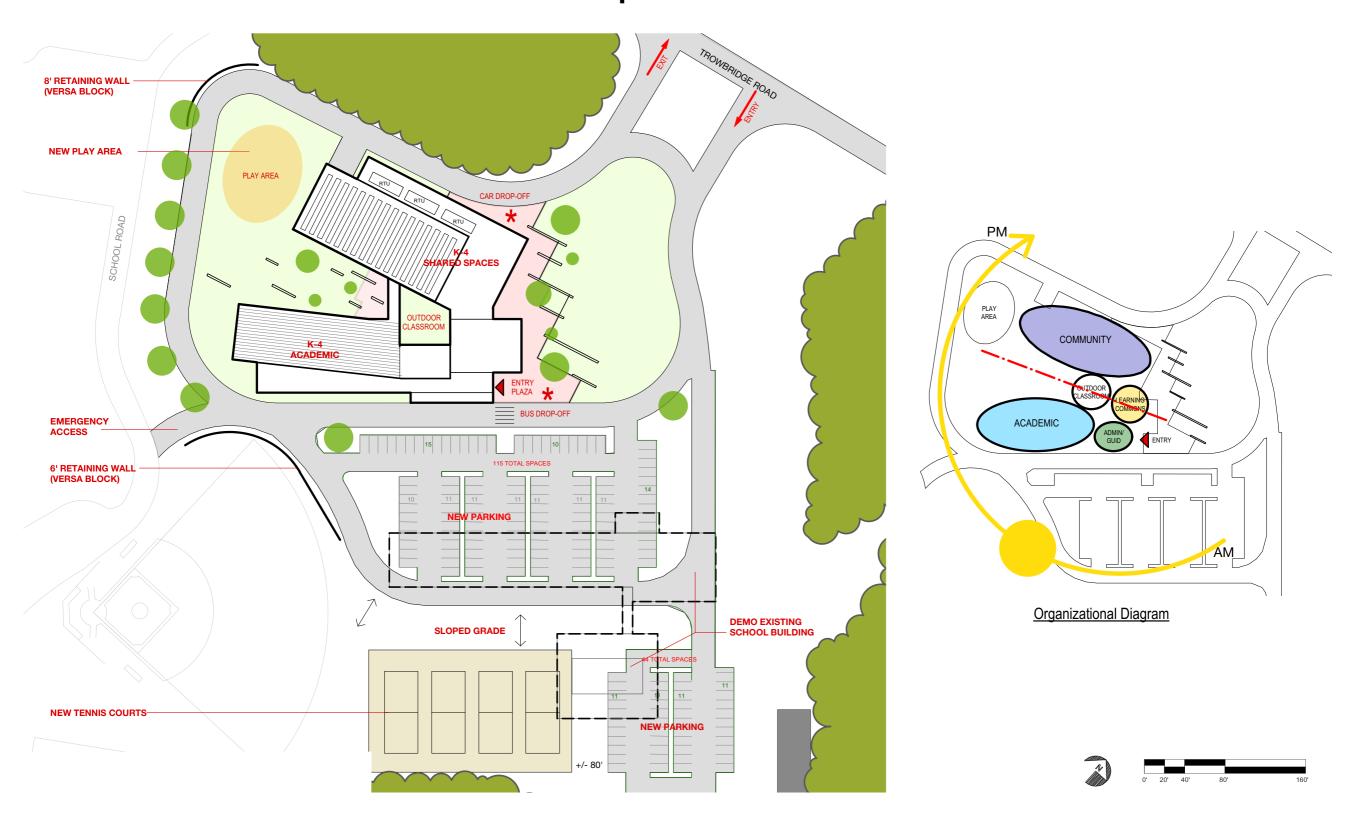
3 for most favorable 2 for acceptable 1 for least favorable



Flansburgh Architects

<sup>\*</sup> Committee members ranked each of the 24 evaluation critera with a 3, 2, or 1 and totaled these rankings by option.

### Peebles New Construction Option 1A (250 students)



### Peebles New Construction Option 1A (250 students)





FIRST FLOOR PLAN

#### **KEY**

- 1. Arts & Innovation Studio:
- -Grouped with Arts, Music, Makers Space & Learning Commons to promote collaboration, shared resources
- 2. Outdoor Classroom:
- Limits distraction to academic classrooms -project area with water, power
- 3. Community:
- Stage open to gym & cafe to support larger venue to support greater community events on this side of the canal

- 4. Academic:
  - -Neighborhood collab/display
- 5. Play Area:
- -Adjacent to Gymnasium to limit distraction to academic classrooms
- 6. Campus Resource:
- Adjacent to Middle School and High School, Historic Village, Canal
- 7. Entry Plaza connects separate car and bus zones

#### SECOND FLOOR PLAN



### Peebles New Construction Option 1A (250 students)

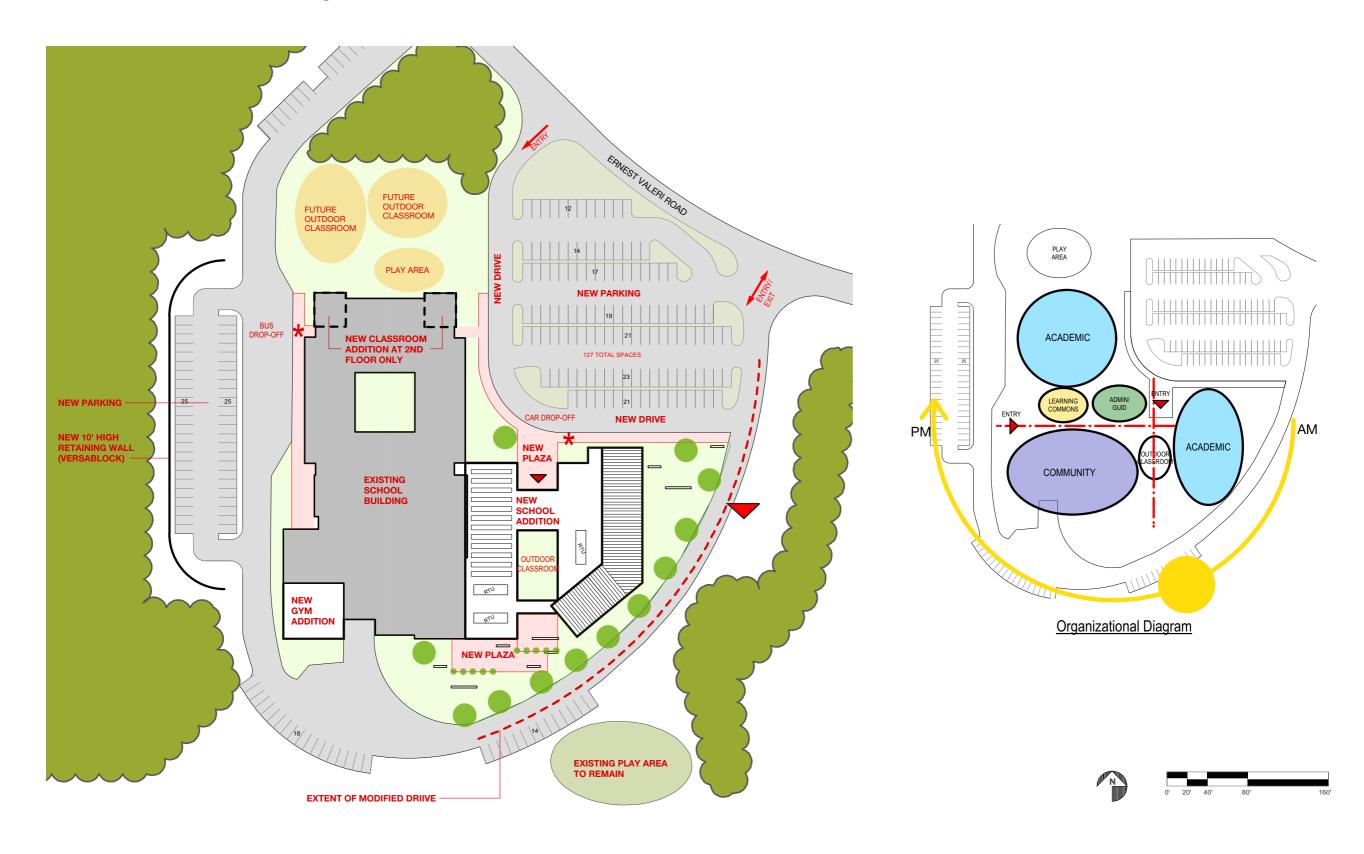
#### **Pros**:

- New Construction alternative with least disruption to students during construction
- Centralized resources as part of a campus
- Clear Articulation between Community and Academic wings; good community access
- Team Spaces promote interconnection
- Outdoor Classroom a beautiful, enclosed focal point for building; good access encourages use.
- Innovation Studio located along main axis; proximity to Art and to Media Center offers flexibility and opportunity for collaboration.
- New Construction provides flexibility in building and site design

#### Cons:

- Very small school
- Does not alleviate space demand in Middle School
- Does not relocate 5<sup>th</sup> grade within elementary school setting
- High cost of a small school

### Bournedale Option 2A (725 students)



### Bournedale Option 2A (725 students)



### Bournedale Option 2A (725 students)

#### **Pros**:

Consolidates K-4 grades and resources; creates equitable student experience

Collaborative and interconnected learning communities

Distinct academic communities for lower and upper grades

Maintains existing structure and facility with minimal disruption to learning

New entry lobby and courtyard provide buffer for noise and secure use of outdoor classroom

The existing "newer" school that can be easily expanded

#### Cons:

Large school

Does not alleviate space pressure on Middle School or relocate 5<sup>th</sup> grade within elementary school

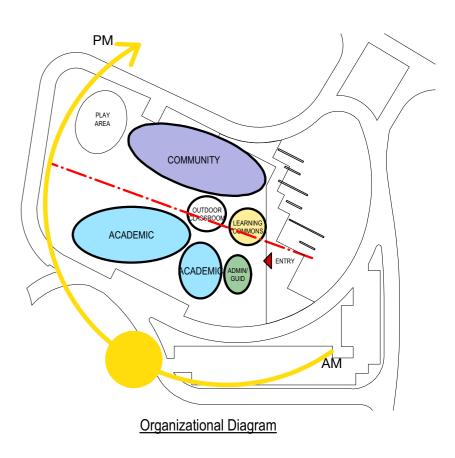
Requires phasing, although minimal, with some disruption to students

Loss of neighborhood school for Peebles families

Creates empty Peebles building requiring significant upgrades for future use

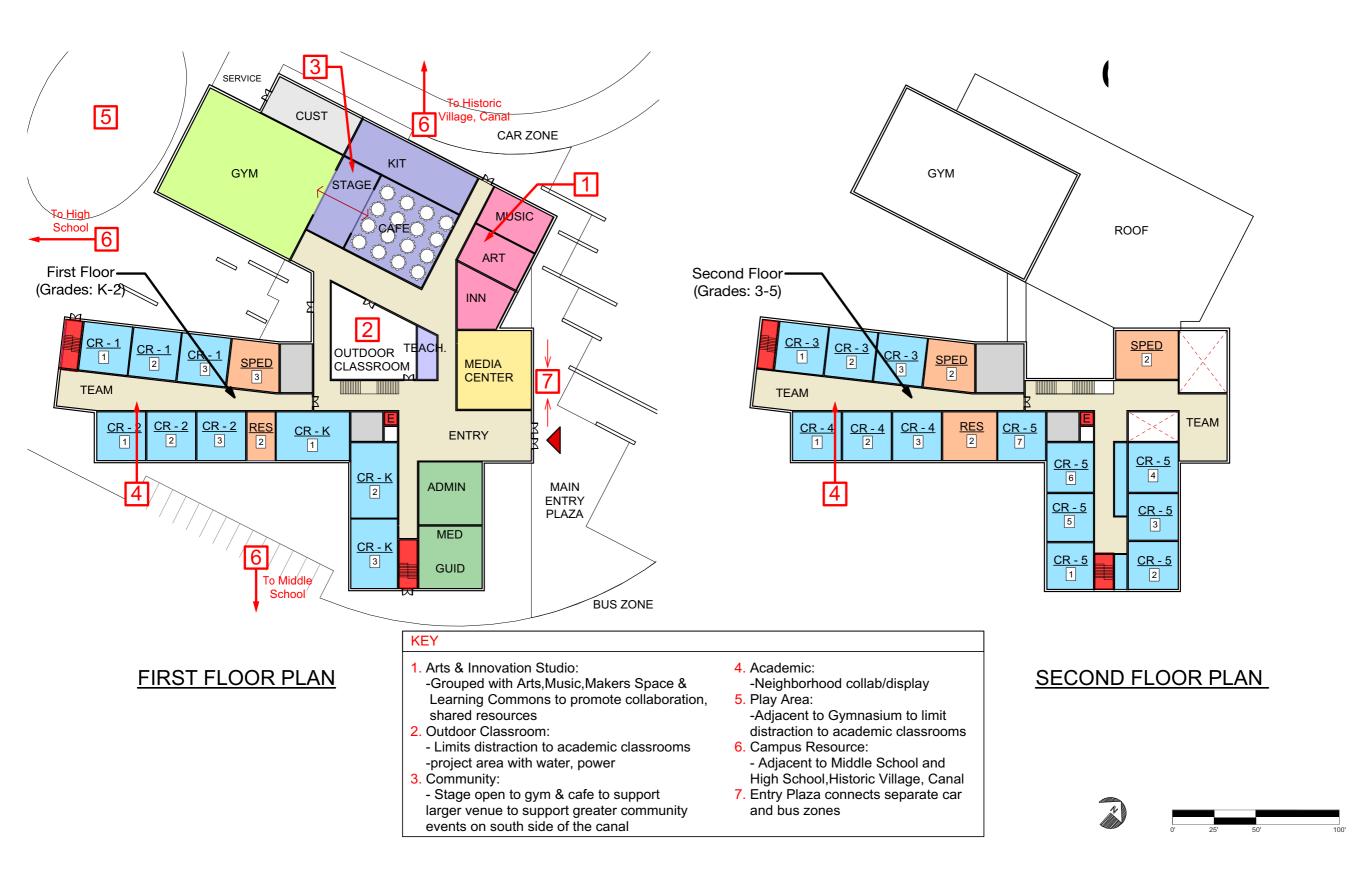
### Peebles New Construction Option 4A (410 students)







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### Peebles New Construction Option 4A (410 students)

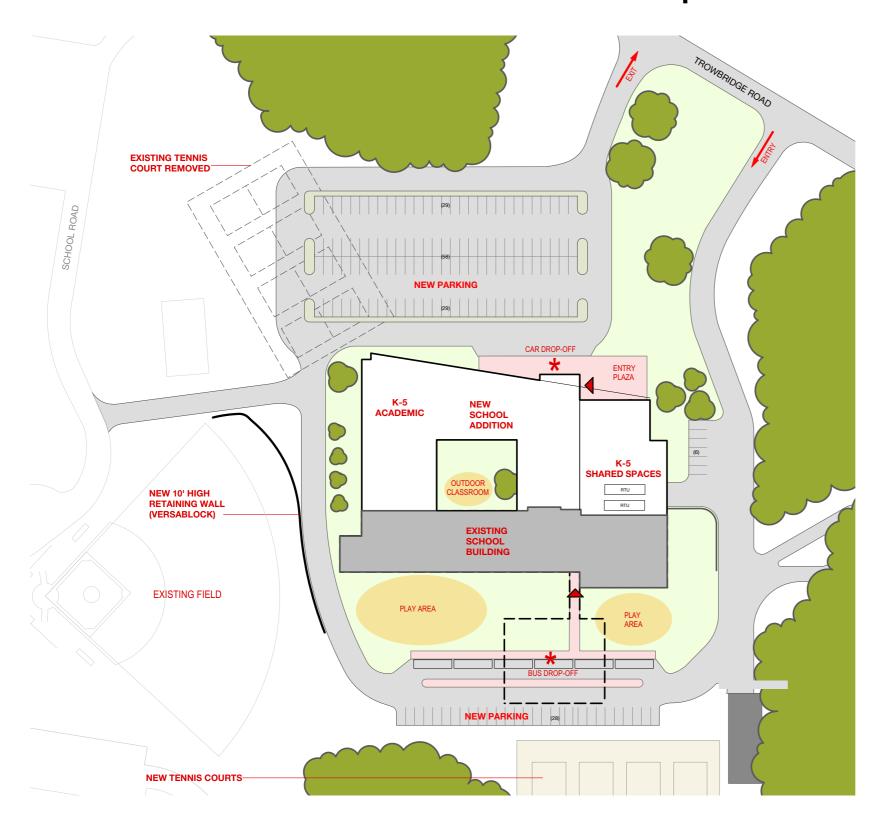
#### Pros:

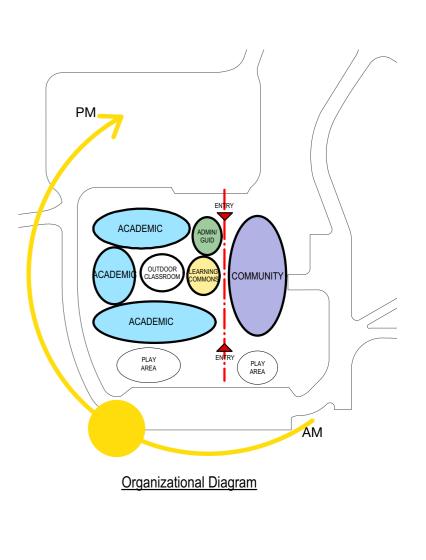
- Alleviates transition issue for 5<sup>th</sup> grade students; relieves space demand in middle school
- Maintains K-5 neighborhood school on Cape side of bridge and campus connectivity
- 5<sup>th</sup> grade as "leaders" in own wing in preparation for middle school
- Centralized resources as part of a campus
- New Construction alternative with least disruption to students during construction
- Clear Articulation between Community and Academic wings; good community access
- Team Spaces promote interconnection
- Outdoor Classroom a beautiful, enclosed focal point for building; good access encourages use.
- Innovation Studio located along main axis; proximity to Art and to Media Center offers flexibility and opportunity for collaboration.
- Well-located Special Education spaces, Admin, and Gym; Stage between Gym and Cafe offers flexibility
- New construction allows flexibility in building and site design

#### Cons:

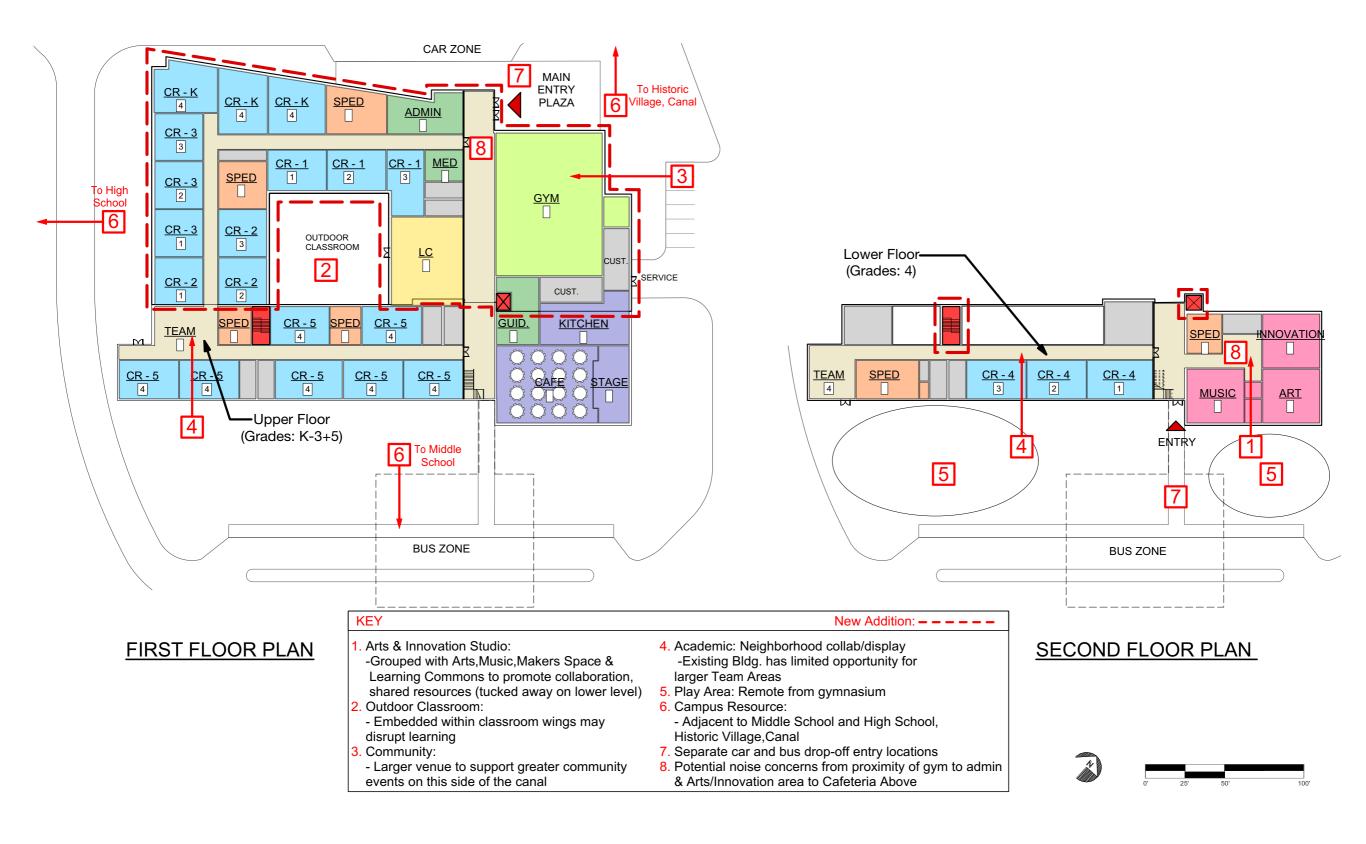
- One-year transition for Bournedale 5<sup>th</sup> graders could be challenging
- Dynamics between K-4 students and 5<sup>th</sup> graders, with 5<sup>th</sup> grade representing 40% of population

### Peebles Addition / Renovation Option 4B (410 students)





### Peebles Addition / Renovation Option 4B (410 students)



### Peebles Addition / Renovation Option 4B (410 students)

#### Pros:

- Modernizes Peebles aesthetically and physically; provides new face of building
- Eliminates Annex, most deficient part of building
- Well-size courtyard provides secure outdoor access
- Main street connects community spaces
- Maintains clear articulation between Community and Academic Wings
- Reconstructed and safer parent and bus drop-offs

#### Cons:

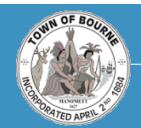
- One-year transition for Bournedale 5<sup>th</sup> graders could be challenging
- · Visible Learning, Classroom Neighborhoods, and Collaboration difficult in older building
- Innovation Lab tucked away on lower level
- Considerable disruption during construction
- Requires extensive phasing
- Potential noise issues from proximity of Gym to Admin suite and from Cafeteria to learning spaces below

# PRELIMINARY COST MODELS

### Preliminary Cost Models - (7 options and the "Base Repair")

		Option 1 (K-4) 250 students		Option 2 (PK-4) 725 students	Option 3 (PK-5) 885 students		Option 4 (K-5) 410 students		Base Repair Only
		1A New	1G Add/Reno	2A Add/Reno	3A Add/Reno	3B Add/Reno	4A New	4B Add/Reno	
Gross SF		57,248 SF		114,593 SF	131,382 SF		72,473 SF		55,190 SF
	Building	\$23.25M	\$23.15M	\$25.63M	\$30.63M	\$30.03M	\$26.96M	\$27.46M	\$10.53M
*Construction	Hazmat/Demo	\$1.71M	\$1.24M	\$0	\$0	\$0	\$1.7M	\$1.21M	\$1.16M
Cost \$	Sitework	\$4.05M	\$4.17M	\$4.65M	\$4.78M	\$4.75M	\$4.34M	\$4.29M	\$.38M
(Hard Cost)	Total	\$29.01M	\$28.56M	\$30.28M	\$35.41M	\$34.78M	\$32.99M	\$32.96M	\$12.07M
	Fees & Expenses	\$5.9M	\$5.47M	\$5.61M	\$6.38M	\$6.28M	\$6.5M	\$6.13M	\$2.8M
Soft Cost \$	FF&E	\$.75M	\$.75M	\$1.02M	\$1.5M	\$1.5M	\$1.23M	\$1.23M	\$.25M
	Contingencies	\$2.32M	\$2.57M	\$2.42M	\$2.83M	\$2.78M	\$2.64M	\$2.97M	\$1.68M
Other Town Costs		no cost	no cost	TBD	TBD	TBD	no cost	no cost	no cost
TOTAL		\$37.98M	\$37.35M	\$39.34M	\$46.12M	\$45.35M	\$43.36M	\$43.28M	\$16.8M

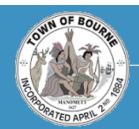
<sup>\*</sup> Estimated Cost subject to change as project is refined



### Preliminary Cost Models - (4 remaining options and the "Base Repair")

		Option 1 (K-4)		Option 2 (PK-4)	Option 3 (PK-5)		Option 4 (K-5)		Base Repair
		250 students		725 students	885 students		410 students		Only
		1A New	1G Add/Reno	2A Add/Reno	3A Add/Reno		4A New	4B Add/Reno	
Gross SF		57,248 SF		114,593 SF	131,382 SF		72,473 SF		55,190 SF
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### **Next Steps**

The School Building Committee meetings are every two weeks. Meeting agendas and dates are posted on the District's website.

- January 21, 2016 Community Forum No.4 at Bournedale Elementary School Cafeteria
- March 03, 2015 Community Forum No. 5 at Peebles Elementary School Cafeteria
- April 06, 2015 Community Forum No. 6 at Bournedale Elementary School Cafeteria
- April 15, 2016 Submit PSR document to the MSBA
- August 11, 2016 Submit Schematic Design documents to MSBA
- September 28, 2016 MSBA Board Meeting to approve project to bring to voters
- Fall 2016 Town Vote

## Questions?