

17020

9/13/2017

### **PROJECT MINUTES**

Project: W. Edward Balmer Elementary School Feasibility Study Project No.:

Prepared by: Joel Seeley Meeting Date:

Re: School Building Committee Meeting Meeting No: 10 Location: High School Media Center Time: 6:30pm

Distribution: School Building Committee Members, Attendees (MF)

### Attendees:

PRESENT	NAME	AFFILIATION	VOTING MEMBER
✓	Joseph Strazzulla	Chairman, School Building Committee	Voting Member
✓	Melissa Walker	School Business Manager	Voting Member
✓	James Marzec	Representative of the Board of Selectmen	Voting Member
	Michael LeBrasseur	Chairman, School Committee	Voting Member
✓	Paul Bedigian	Representative of the Building, Planning, Construction Committee	Voting Member
✓	Steven Gogolinski	Representative of the Finance Committee	Voting Member
✓	Jeffrey Tubbs	Community Member with building design and/or construction experience	Voting Member
✓	Peter L'Hommedieu	Community Member with building design and/or construction experience	Voting Member
	Jeff Lundquist	Community Member with building design and/or construction experience	Voting Member
✓	Andrew Chagnon	Community Member with building design and/or construction experience	Voting Member
	Spencer Pollock	Parent Representative	Voting Member
	Adam Gaudette	Town Manager	Non-Voting Member
✓	Dr. Catherine Stickney	Superintendent of Schools	Non-Voting Member
✓	Steve Von Bargen	Building Maintenance Local Official	Non-Voting Member
✓	Karlene Ross	Principal, W. Edward Balmer Elementary School	Non-Voting Member
✓	Jill Healy	Principal, Northbridge Elementary School	Non-Voting Member
✓	Kathleen Perry	Director of Pupil Personnel Services	Non-Voting Member
✓	Lee Dore	D & W, Architect	
	Don Walter	D & W, Architect	
	Jason Boone	D & W, Architect	
✓	Thomas Hengelsberg	D & W, Architect	
✓	Joel Seeley	SMMA, OPM	

Meeting Date: 9/13/2017

Meeting No.: 10 Page No.: 2

ltem #	Action	Discussion
10.1	Record	Call to Order, 6:30 PM, meeting opened.
10.2	Record	J. Strazzulla announced the meeting will be video and audio recorded with live broadcast and future re-broadcast.
10.3	Record	A motion was made by J. Marzec and seconded by A. Chagnon to approve the 8/29/2017 School Building Committee meeting minutes. Motion passed unanimous by those attending.
10.4	Record	Warrant No. 3 was reviewed.
		Committee Questions:
		<ol> <li>M. Walker indicated the First Night Uxbridge invoice is for \$360, not \$630.</li> <li>J. Seeley to correct the Warrant cover sheet.</li> </ol>
		2. S. Gogolinski disclosed his sister works for Graffiti Works.
		<ol> <li>A. Chagnon asked if the percentage completion reflects the stage of the Feasibility phase?</li> <li>J. Seeley indicated yes, the percentage completion reflects the stage of the feasibility phase.</li> </ol>
		A motion was made by J. Marzec and seconded by A. Chagnon to approve Warrant No. 3. No discussion, motion passed unanimous.
10.5	Record	J. Seeley distributed and reviewed the Meetings and Agendas Schedule for the PSR Phase, attached.
10.6	Record	J. Seeley distributed and reviewed the Opinion Letter from Town Counsel on the Balmer and Vail Field property, attached, indicating there are no Article 97 and any other restrictions to using either for school use.
		Town Counsel opinion on the Riverdale Memorial Field, High School Play Fields and the Linwood Playground sites with respect to Article 97 and any other restrictions is on hold and will only be asked for if the Balmer site has a fatal flaw.
10.7	Record	Hill Street Site Follow-up
		<ol> <li>L. Dore indicated the town sanitary sewer main ends approximately one mile south of the Hill Street Farm site. L. Dore indicated the Hill Street Farm site is not in the wellhead protection zone.</li> </ol>
		<ol><li>Future research into the Hill Street Site is on hold and will only be asked for if the Balmer site has a fatal flaw.</li></ol>
10.8	Record	T. Hengelsberg distributed and reviewed the Playground and Recreation Committee 8/29/2017 meeting minutes, attached.
10.9	Record	T. Hengelsberg presented and reviewed an overview of the tours to the Park Avenue Elementary School, Gates Middle School and the Woodland Elementary School, attached.
		Committee Discussion:
		J. Strazzulla thanked the tour attendees.
		J. Healy indicated the Woodland School was a large school but did not feel large.     The design for small learning communities was very good.

Meeting Date: 9/13/2017

Meeting No.: 10 Page No.: 3

Item #	Action	Discussion
		C. Stickney indicated the Woodland School had a good storage solution for the chrome book carts.
		4. C. Stickney indicated the Woodland School playground was well designed.
10.10	L. Dore	T. Hengelsberg presented and reviewed the Sustainable Design strategies for the project, including a preliminary LEED-S Version 4 scorecard.
		Committee Discussion:
		<ol> <li>P. Bedigian asked if MSBA has a minimum LEED-S-Version 4 score requirement?         T. Hengelsberg indicated the project must achieve "certified" using LEED-S-Version 4 and must exceed the level of energy efficiency required by the Massachusetts Energy Code by 20% for the additional 2% reimbursement.     </li> </ol>
		<ol> <li>J. Strazzulla asked if there is a cost to achieve the additional 2% reimbursement?</li> <li>L. Dore indicated yes, but since Northbridge is a Stretch Code community, the project will be required to meet the energy efficiency requirements already and many of the other points are no-to-low cost elements.</li> </ol>
		3. C. Stickney asked if the Park Avenue and Gates Schools were LEED certified?  L. Dore indicated they were certified to LEED Gold, however he will provide direction if they were under the LEED-S-Version 4 or the LEED-S version.
10.11	L. Dore	T. Hengelsberg presented and reviewed the US EPA Preliminary Energy Target analysis. The project is on target.
		Committee Discussion:
		1. J. Strazzulla asked if D&W can prepare the same analysis for Balmer and NES?  L. Dore indicated yes, D&W will prepare the same analysis for Balmer and NES.
10.12	Record	T. Hengelsberg distributed and reviewed the Educational Working Group 8/29/2017 meeting minutes, attached.
10.13	T. Hengelsberg	T. Hengelsberg distributed and reviewed the Updated Space Templates, attached, for the Grades 2-4 Option and Grades PreK-5 Option, reflecting a building size of 89,463 GSF and 172,845 GSF respectively.
		Committee Discussion:
		<ol> <li>J. Strazzulla asked if the Updated Space Templates include the Central Office space?</li> <li>L. Dore indicated no, the Updated Space Templates do not include the Central Office space.</li> </ol>
		D&W to continue to refine the Space Templates with the Educational Working Group.
10.14	Record	T. Hengelsberg presented the updated Space Analysis for Central Administration, attached. The current Central Administration office has 4,718 NSF and the proposed would have 5,485 NSF, calculating to a GSF of 8,228.
10.15	C. Stickney L. Dore	T. Hengelsberg presented the Updated Middle School capacity analysis, attached and the following reconfiguration options once the 5 <sup>th</sup> grade is moved to the elementary school, as follows:

Meeting Date: 9/13/2017

Meeting No.: 10 Page No.: 4

Item #	Action	Discussion
		Case 1 – Move 5 <sup>th</sup> grade to elementary school, move Central Office to Middle School – achievable within existing Middle School GSF
		Case 2 - Move 5 <sup>th</sup> grade to elementary school, keep Central Office at 87 Linwood, take1908 Wing off-line – not achievable within existing Middle School GSF
		Committee Discussion:
		<ol> <li>P. Bedigian recommends using the existing 1.70 efficiency factor in the analysis and confirm if Case 1 is still achievable.</li> <li>T. Hengelsberg will confirm Case 1 with the 1.70 efficiency factor.</li> </ol>
		<ol> <li>A. Chagnon asked if the net spaces in the 1905 Wing are fully utilized, or could they be replicated in a smaller net square feet in the remaining Middle School under Case 2?</li> <li>C. Stickney indicated the school administration will provide a listing of the net spaces and their minimum size. L. Dore indicated D&amp;W will re-evaluate Case 2 with those spaces.</li> </ol>
		<ol> <li>J. Tubbs asked what is driving the desire to take the 1905 Wing off-line?</li> <li>C. Stickney reviewed the facility, systems, finishes and programmatic issues of the 1905 Wing.</li> </ol>
		D&W will continue its evaluation of the Capacity findings.
10.16	Committee L. Dore	L. Dore distributed and reviewed a draft Evaluation Definitions, Rubric and Matrix, attached.
		Committee Discussion:
		<ol> <li>J. Strazzulla asked if criteria 7.4 is for the Cost to Northbridge or Total Project Cost?</li> <li>L. Dore indicated it should be the Town Cost, D&amp;W will update the form.</li> </ol>
		<ol> <li>A. Chagnon asked if criteria 7.4 is to take into account both the Grade 2-4 option Town Cost plus the future NES Repair Only work?</li> <li>L. Dore indicated yes, it should be the total Town Cost, D&amp;W will update the form.</li> </ol>
		The Committee to review the draft Evaluation Definitions, Rubric and Matrix for any other edits/changes for next Committee meeting.
10.17	T. Hengelsberg	T. Hengelsberg presented and reviewed the updated Design Options, attached, as follows:
		<ol> <li>Option A1 - Repair Only – Balmer Elementary School</li> <li>Option A2 - Repair Only – Northbridge Elementary School</li> <li>Option B1 – Grade 2-4 Renovation/Addition</li> <li>Option B2 – Grade 2-4 New Construction - Back</li> <li>Option B3 – Grade 2-4 New Construction - Front</li> <li>Option C1 – Grade PK-5 Renovation/Addition – New CR Wing</li> <li>Option C2 – Grade PK-5 Renovation/Addition – Exist CR Wing</li> <li>Option C3 – Grade PK-5 New Construction - Back</li> <li>Option C4 – Grade PK-5 New Construction - Side</li> <li>Option C5 - Grade PK-5 New Construction - Front</li> </ol>

Meeting Date: 9/13/2017

Meeting No.: 10 Page No.: 5

Item #	Action	Discussion
		Committee Discussion:
		<ol> <li>J. Seeley distributed and reviewed comments received from J. Lundquist, attached.</li> <li>A. Chagnon cautioned the Committee to refrain from providing written directives in their comments that could be interpreted as scope directives.</li> </ol>
		<ol> <li>T. Hengelsberg to flip the bus and parent drop-off locations in Options B3 and C5.</li> </ol>
		<ol> <li>J. Tubbs asked if D&amp;W can review the settlement issues in the existing building and determine if renovating the classroom wing is viable.</li> <li>T. Hengelsberg to review and provide direction.</li> </ol>
		D&W will continue refining the Options.
10.18	Record	L. Dore distributed and reviewed the Construction Cost estimates, attached for each of the Options. J. Seeley distributed and reviewed the Total Project Cost, Reimbursement Rate, MSBA Grant and Cost to Town, and Tax Impact estimates for each option.
10.19	Committee	J. Seeley distributed and reviewed a draft Community Survey to assist the Committee in deciding the preferred option. The Committee to review and provide edits/comments and finalize the survey questions at the next Committee meeting.
10.20	PR	The PR subcommittee update:
	subcommittee Committee	J. Strazzulla distributed and reviewed the Community Forum No. 3 Flyer, attached.
	T. Hengelsberg J. Seeley	<ol> <li>J. Strazzulla distributed and reviewed the PR Subcommittee 9/5/2017 and 9/12/2017 Meeting Minutes, attached.</li> </ol>
		<ol> <li>J. Strazzulla distributed and reviewed the PR Subcommittee 9/11/2017 Press Release, attached.</li> </ol>
		<ol> <li>J. Strazzulla provided an update on the Project Website. A link to the NPS YouTube page has been added and an Email Contact for the PR Subcommittee will be added.</li> </ol>
		<ol> <li>J. Strazzulla indicated the NCTV video tour of Balmer and NES is complete and accessible on the Project Website NPS YouTube link.</li> </ol>
		<ul> <li>6. J. Strazzulla provided a listing of upcoming meetings/events and asked for Committee Volunteers to attend: <ul> <li>a. 9/14/2017 Balmer Curriculum Night</li> <li>b. 9/25/2017 Selectmen Meeting</li> <li>c. 9/27/2017 Finance Committee meeting</li> <li>d. 9/29/2017 PTA Meeting</li> <li>e. 10/2/2017 Historical Society</li> </ul> </li> <li>Committee volunteers to coordinate with M. LeBrasseur.</li> </ul>
		7. J. Strazzulla to coordinate a joint meeting with the Selectmen, School Committee and Finance Committee.
		8. C. Stickney to coordinate a meeting with the Council on Aging.

Meeting Date: 9/13/2017

Meeting No.: 10 Page No.: 6

Item # Action Discussion 9. C. Stickney asked Committee members to provide a listing of any upcoming events that can be added to the PR Calendar. Committee members to send their events list to C. Stickney. 10. T. Hengelsberg to develop a handout flyer for distribution at upcoming events. 11. J. Seeley to develop a FAQ for the project website. 12. J. Strazzulla to review if there is a Seniors Tax Abatement. 10.21 Record Public Comments - None 10.22 Record Old or New Business - None 10.23 Record Next SBC Meeting: September 19, 2017 at 6:30 pm at the High School Media Center. 10.24 Record Community Forum No. 3: September 18, 2017 at 6:00 pm at the Balmer Elementary School Library. 10.25 Record A Motion was made by A. Chagnon and seconded by J. Tubbs to adjourn the meeting. No discussion, voted unanimously.

Attachments: Agenda, Meetings and Agendas Schedule for the PSR Phase, Opinion Letter from Town Counsel, Playground and Recreation Committee 8/29/2017 meeting minutes, Educational Working Group 8/29/2017 meeting minutes, Updated Space Templates, draft Evaluation Definitions, Rubric and Matrix, Construction Cost estimates, Total Project Cost, Reimbursement Rate, MSBA Grant and Cost to Town, and Tax Impact estimates, Community Forum No. 3 Flyer, PR Subcommittee 9/5/2017 and 9/12/2017 Meeting Minutes, PR Subcommittee 9/11/2017 Press Release Powerpoint

The information herein reflects the understanding reached. Please contact the author if you have any questions or are not in agreement with these Project Minutes

# PROJECT MEETING SIGN-IN SHEET

Project:

W. Edward Balmer Elementary School Feasibility Study

Prepared by:

Joel Seeley

Re:

School Building Committee Meeting

Location:

High School Media Center

427 Linwood Avenue, Whitinsville, MA

Project No.: Meeting Date:

17020

Meeting No:

9/13/2017 10

Time:

6:30pm

Distribution:

Attendees, (MF)

SIGNATURE	ATTENDEES	EMAIL	AFFILIATION
all State	Joseph Strazzulla	jstrazzulla@nps.org	Chairman, School Building Committee
Walsh	Melissa Walker	mwalker@nps.org	School Business Manager, MCPPO
X	James Marzec	james.r.marzec@gmail.com	Member, Board of Selectmen, CEO
()	Michael LeBrasseur	mlebrasseur@nps.org	Chairman, School Committee
Bedygian	Paul Bedigian	bedigianps@cdmsmith.com	Representative of the Building, Planning Construction Committee
Howles	Steven Gogolinski	steve@gogolinskicpa.com	Representative of the Finance Committee
Tiles	Jeffrey Tubbs	jtubbs@charter.net	Member of community with architecture engineering and/or construction experience
	Peter L'Hommedieu	PLHommedieu@shawmut.com	Member of community with architecture engineering and/or construction experience
	Jeff Lundquist	jlundquist@therichmondgroup.com	Member of community with architecture engineering and/or construction experience
Son	Andrew Chagnon	achagnon@parecorp.com	Member of community with architecture engineering and/or construction experience
	Spencer Pollock	spencerpollock22@gmail.com	Parent Representative
- 0	Adam Gaudette	agaudette@northbridgemass.org	Town Manager
not topper	Or. Catherine Stickney	cstickney@nps.org	Superintendent of Schools, NPS
5/1/	Steve Von Bargen	svonbargen@nps.org	Building Maintenance Local Official
Level Coss	Karlene Ross	kross@nps.org	Principal, W. Edward Balmer Elementary School
Healy	Jill Healy	jhealy@nps.org	Principal, Northbridge Elementary School
leen Lein	Kathleen Perry	kperry@nps.org	Director of Pupil Personnel Services
yu !	Lee P. Dore	Ipdore@DoreandWhittier.com	Dore & Whittier Architects
(1)	Donald M Walter	dwalter@DoreandWhittier.com	Dore & Whittier Architects
V	Jason Boone	jboone@DoreandWhittier.com	Dore & Whittier Architects
	Thomas Hengelsberg	thengelsberg@DoreandWhittier.com	Dore & Whittier Architects
	Rani Philip	rphilip@DoreandWhittier.com	Dore & Whittier Architects
va	Joel Seeley	jseeley@smma.com	SMMA

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1000 Massachusetts Avenue Cambridge, MA 02138 617.547.5400



# Agenda

Project: W. Edward Balmer Elementary School Feasibility Study

Re: School Building Committee Meeting

Meeting Location: High School Media Center

427 Linwood Avenue, Whitinsville, MA

17020

9/13/2017

6:30 PM

10

Project No.:

Meeting Date:

Meeting Time:

Meeting No.

Prepared by: Joel G. Seeley

Distribution: Committee Members (MF)

1. Call to Order

- 2. Approval of Minutes
- 3. Approval of Invoices and Commitments
- 4. Review School Tour Findings
- 5. Discussion of Sustainable Design Goals
- 6. Space Template Update
- 7. Design Alternatives Update
- 8. Review Preliminary Cost Models
- 9. PR Subcommittee Update
- 10. New or Old Business
- 11. Committee Questions
- 12. Public Comments
- 13. Next Meeting:
  - Community Forum No. 3 September 18, 2017 6:00 to 8:00 PM
  - September 19, 2017
- 14. Adjourn

1000 Massachusetts Avenue Cambridge, MA 02138 617.547.5400

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# SCHOOL BUILDING COMMITTEE W. EDWARD BALMER ELEMENTARY SCHOOL

All meetings held at the

# High School Media Center at 6:30 PM

unless otherwise noted

### MEETINGS SCHEDULE AND AGENDAS August 29, 2017

5475	August 29, 2017
DATE Feasibility Study Phase (PSR)	AGENDA
reasibility Study Phase (PSR)	
October 17, 2017	SCHOOL BUILDING COMMITTEE MEETING
October 17, 2017	Review Preferred Alternative Goals
	Update on Construction Alternatives
	Prepare for Community Forum
	Trepare for Community Forum
_	COMMUNITY FORUM NO. 4 - 6:00 to 8:00 PM -
October 30, 2017	NORTHBRIDGE ELEMENTARY SCHOOL CAFETERIA
	NOTHIBITIDAL ELEMENTARY SOLIOOL GALLIERIA
November 7, 2017	SCHOOL BUILDING COMMITTEE MEETING
	Review Community Forum Comments
	Update on Construction Alternatives
	Structural Narrative Review
	MEP Systems Narrative Review
	Review MSBA Comments on PDP Submission
November 21, 2017	SCHOOL BUILDING COMMITTEE MEETING
,	Update on Sustainable Design Goals
	Update on Construction Alternatives
	Review Cost Models
	Prepare for Community Forum
Navarah ar 07, 0017	COMMUNITY FORUM NO. 5 - 6:00 to 8:00 PM -
November 27, 2017	W. EDWARD BALMER ELEMENTARY SCHOOL CAFETERIA
December 5, 2017	SCHOOL BUILDING COMMITTEE MEETING
,	Update on Construction Alternatives
	Discuss the One Preferred Option
	Review Cost Models
December 19, 2017	SCHOOL BUILDING COMMITTEE MEETING
,	Decide the One Preferred Construction Alternative
	Vote to Submit Preferred Schematic Report to MSBA
	·
January 3, 2018	SUBMIT PREFERRED SCHEMATIC REPORT PACKAGE TO MSBA
-	
	ADDITIONAL MEETINGS TO BE SCHEDULED





August 31, 2017

101 Arch Street, Boston, MA 02110 Tel: 617.556.0007 | Fax: 617.654.1735 www.k-plaw.com

David J. Doneski ddoneski@k-plaw.com

Northbridge School Building Committee Town Hall 7 Main Street Whitinsville, MA 01588

Re: W. Edward Balmer Elementary School, Executive Office of Energy and Environmental Affairs Article 97 Land Disposition Policy

Dear Members of the School Building Committee:

I have reviewed the identified deed for the Balmer School site – deed of Whitin Machine Works to Town of Northbridge dated April 24, 1963 and recorded with the Worcester Registry of Deeds in Book 4369, Page 342. The deed conveyed 4 parcels to the Town. Parcel 1 is land on the northwesterly side of Crescent Street and the northeasterly side of North Main Street, said to contain 9.04 acres and Parcel 2 is a parcel northwesterly of Parcel 1 said to contain 21.04 acres. The copy of the deed provided by the Assessors' office includes the annotation that the land conveyed encompasses Assessors' Map 7, parcels 138 and 141. According to the Assessors' property card record for the Balmer School property, the school site has an address of 11 Crescent Street, is shown as parcel 138 on Assessors' Map 7, and contains 30.04 acres. (Assessors' Map 7 shows parcel 138 as containing 21.04 acres, with the designation "Balmer School" and parcel 141 as containing 9.04 acres.) Accordingly, it is my understanding that the school site is Parcel 1 and Parcel 2 described in the deed. (Parcel 3 is described as land on the northerly side of Plummer Road a/k/a Church Street, between Providence Road and Quaker Street, consisting of 2.51 acres; and Parcel 4 is described as land on the westerly side of Linwood Avenue, consisting of 30,014 square feet.)

The deed to the Balmer School site includes no statement of use limitations or restriction on Town use of the land. Therefore, it is my opinion that the deed does not impose a limitation that would make the site subject to Article 97 of the Amendments to the Massachusetts Constitution, which includes a prohibition against the sale or change in use of public parkland without special approval by a two-thirds roll call vote of the Legislature.

Article 97 can apply when land acquired without any use restriction is subsequently subjected to a restriction by a document recorded with the Registry of Deeds. See Smith v. City of Westfield, 90 Mass. App. Ct. 80, 82 (2016). It is my understanding that the Town is not aware of any such recorded restriction or similar action for the Balmer School site. My on-line search of Worcester Registry of Deeds records, by street – Crescent Street, did not reveal any subsequent recorded restriction.



Northbridge School Building Committee August 31, 2017 Page 2

You have also informed me that a portion of the Balmer School site contains a recreational field area, known as Vail Field. In that regard, I reviewed certain votes taken at the March 12, 1963 Annual Town Meeting regarding the Town's acceptance of land from Whitin Machine Works – one parcel of approximately 6.22 acres "known as Vail Field . . . to be used for recreational purposes only" (Article 13) and one parcel of approximately 23.25 acres "adjacent to Vail Field . . . to be used as a school site only" (Article 16). Although the stated acreage for these two parcels is different from the parcel sizes reflected in the deed referenced above and the parcel sizes being carried on the Northbridge Assessors' records, it is my understanding that the votes refer to the parcels conveyed by that deed. The Vail Field designation for the smaller parcel appears to pre-exist any transfer to the Town from Whitin Machine Works. In any event, though, creation of a restriction for purposes of Article 97 of the Amendments to the Massachusetts Constitution requires an instrument recorded at the Registry of Deeds. See Mahajan v. Department. of Environmental Protection, 464 Mass. 604, 615 – 616 (2013), citing Selectmen of Hanson v. Lindsay, 444 Mass. 502 (2005). No such instrument has been identified. Accordingly, the existence of these votes, with no restrictive instrument recorded at the Registry of Deeds, does not alter the opinion that the Balmer School site is not subject to Article 97.

In accordance with the foregoing, and in response to your further question of August 28, 2017, it is my view that the so-called Vail Field portion of the site may be used for non-recreational purposes and that the other portions of the site may be used for recreational purposes.

Please contact me if you have any further questions on this matter.

Very truly yours,

David J. Doneski

DJD/man

cc.

Board of Selectmen

589268 v.2/NBRI/0001

### MEETING MINUTES



DATE OF MEETING: August 29, 2017

PROJECT: W. EDWARD BALMER ES FEASIBILITY STUDY

PROJECT NO.: 17-0759

SUBJECT: PROGRAMMING SUBCOMMITTEE MEETING #2

High School Health Conference Rm. 4:30PM

ATTENDING: Lee Dore - DWA Steve Von E

Tom Hengelsberg - DWA Jason Boone - DWA Steve Von Bargen – Dir Facilities & Ops. Kathy Perry - Dir of Pupil Personnel Svcs Karlene Ross – Principal, Balmer ES Catherine Stickney – Superintendent Melissa Walker – Business Mgr.

ITEM MINUTES ACTION/ STATUS WHO DATE 02-1 LD noted that he had received edits from previous meeting minutes Closed from Jill and Melissa and that they had been incorporated into revised minutes that were distributed to the group. 02-2 Group discussed school schedule for "Specials". Closed 311 minutes/day ÷ 44 Minutes/section = 7 sections per day Assume 1 prep period/per day = 6 sections per day 49 K-5 sections needed 49 sections – 24 sections/room = 2 rooms (teaching stations) needed MSBA guidelines (1030 enroll) District needs (2) Art (3) Art (2) Music (3) Music (2) PE teaching stations (2) PE (2) Technology (0) Technology District is utilizing Technology as 'Special' now – in future, for more flexibility and to support program needs consider utilization of the 'extra' Art and Music classroom in guidelines for 1030 students as space to house the Districts maker/project room space. These spaces can be designed and outfitted to also provide further flexibility to support a science curriculum better than general classrooms. Arithmetic of specials based on current scheduling practices indicate there is only a need for 2 PE teaching stations for 1030 students. PK does not attend 'Specials'. 02-3 Group discussed that with only 2 teaching stations at PE classes will Open need to be conducted simultaneously. Gym will need some type of

ARCHITECTS PROJECT MANAGERS

260 Merrimac Street Bldg 7 Newburyport, MA 01950 978.499.2999 ph 978.499.2944 fax

212 Battery Street Burlington, VT 05401 802.863.1428 ph 802.863.6955

	divider curtain to separate teaching stations. There will also be 2 PE	
	teachers. MSBA guidelines allow for only one office space for PE	
	teacher. DW to design this one office to house two teachers.	
02-4	Group discussed the Visioning group's desire to expand the 'Specials'	Open
02 1	to include a room to house a Maker Space. This room should be	Open
	flexible enough to accommodate Maker Space, science curriculum and	
	potentially STEAM curriculum. A flexible project lab space. It is	
	desired to have one room serving PK-K; 1 room for grades 1-2 and a	
	larger room central to grades 3-5. It was discussed that potentially this	
	NSF could come from the additional Art/Music rooms that MSBA	
	guidelines allow for. Special mention should be highlighted in ed	
	program narrative. DW noted obtaining this NSF as part of the gross	
	multiplier could prove difficult if NSF request not agreed to by MSBA.	
02-5	Library/Media Center – it was noted that currently there are 1.5 FTE	Open
	librarians between BES/NES. It is desired to have a teaching area	
	located within the traditional 'reading room/stack' area. The space	
	summary will have a 400 nsf carve out for this teaching area. It is	
	desirable to have satellite library space available at the Extended	
	Learning Centers/Commons that could be utilized to bring in resource	
	materials from the central library that are in direct support of the	
	curriculum being taught at different times of the year. 800 nsf of space	
	will be noted in space summary as being available to allocate to	
	satellite library areas located in the Extended Learning Centers. The	
	group discussed the need to see how the layout/geometry of the ELC	
	goes during the design process. Additional library space may need to	
	be carved out to support satellites in ELC's. If any changes occur	
02.7	group will be updated.	Onen
02-6	Cafeteria/Dining – The District would like to break down the large	Open
	traditional dining hall into a couple of distinct areas. At least two quiet zones (maybe broken out further to 4 quiet zones) that are carved out	
	of the available dining nsf. These quiet areas would be visually	
	connected to main dining but acoustically separate to assist with	
	students who may need a quieter environment as well as support for a	
	school lunch buddy program. They could also be used for adhoc	
	meeting space. Desired to have platform in the cafeteria space.	
	Group discussed a kidney shaped dining area directly adjacent to	
	kitchen serving lines with a platform in the middle that potentially could	
	be subdivided with an operable wall to two distinct areas. PK-2 dining	
	and potentially an upper dining area for grades 3-5 in a PK-5 solution.	
02-7	Discussed need for SPED bathrooms in addition to a larger 'in room'	Open
	bathroom for the dedicated substantially separate PK classroom. 2	'
	120 nsf bathrooms containing an ADA toilet, sink, and large changing	
	table are desired with one located near 1-2 suite and another by 3-5	
	classroom suite. A third bathroom at 130 nsf is desired to be located	
	near, but not in the nurses suite. This third bathroom needs everything	
	the other two have but also should include a shower.	
02-8	Instructional Technologist – Group decided that this staff member	Open
	should be located in the 'hoteling' space discussed at the last meeting.	
02-9	Academic Coaches – group discussed that there will only be two staff	Open
	members one for PK-2 and one for grades 3-5. These should be	
	located near central administration.	
02-10	Based on feedback from staff and others it was decided that the District	Open
	would need teacher planning areas to collaborate, utilize as a home	
	base and conference space. 1 room of 500 nsf for each grade level –	
	7 rooms at 500 nsf each located at each SLC by grade level.	

# BALMER ES FEASIBILITY STUDY – PROGRAMMING SUBCOMMITTEE MTG 1 AUGUST 29, 2017 Page 3 of 3

02-11	It was noted that the next Programming Subcommittee meeting will be	Оре	en
	held at 4:30PM on September 13th. The previously scheduled 9/5		
	meeting is cancelled.		

The above is intended to be an accurate summation of this meeting. Please contact me with any additions, deletions, and/or corrections, for incorporation into these minutes. After 10 days, we will accept these minutes as an accurate summary of our discussion and enter them into the permanent record of the project.

Sincerely,

DORE & WHITTIER ARCHITECTS, INC. Architects • Project Managers

Lee Dore Principal

c: Attendees File

# **MEETING MINUTES**



**DATE OF MEETING:** August 29, 2017

**PROJECT:** W. EDWARD BALMER ES FEASIBILITY STUDY

**PROJECT NO.:** 17-0759

**SUBJECT:** Meeting with Northbridge Recreation Director

**ATTENDING:** Mike Proto – NB Rec Director

Joe Strazzulla – Chair, SBC Tom Hengelsberg – PM, DWA Joel Seeley – SMMA (OPM)

ITEM	AMARITEO	A OTION!	OTATUO
ITEM	MINUTES	ACTION/	STATUS
		WHO	/   DATE
01-1	This masting was intended to be an informal most and great with Miles		DATE Closed
01-1	This meeting was intended to be an informal meet-and-greet with Mike		Closed
	to introduce him to the team, get him up to speed on the project, and		
	open lines of communication.		
01-2	Joel explained to Mike where the project is in the process, that the		Closed
	Balmer site had been chosen as the primary study site, and what is		
	coming next in the process, generally.		
01-3	Mike explained which Northbridge teams/programs use the Vail Field		Closed
	facilities:		
	Babe Ruth Baseball (large diamond) and Youth Baseball (small)		
	diamond)- outfield circles are tangent so they can be used		
	simultaneously		
	Youth soccer in the outfield of the old baseball diamond		
	Youth Soccer practices on the rear field behind Balmer; Joe		
	mentioned this can also be divided into two U-6 or U-8 fields		
	Sides of the back field are used for practice and drill		
	simultaneously with the central part of that field		
	The eastern field behind Balmer paved playground is in such bad		
	shape, it is only used when there are no other alternatives.		
	In summary, all suitable grass areas of the site are used heavily, and all		
	fields and facilities need to be reconstituted in the proposed plan, at		
	minimum.		
01-4	Tom showed Mike the five site plan options that had been prepared for	DWA to	Open
	the other meetings, and pointed out the major features of each. Mike	review all	
	noted that, for example, in Option PK-5 A, the scheme was short one	options	
	U-8 play field. Tom explained that the way this option was laid out,	going	
	more woods would have to be cleared in the back of the proposed	forward	
	building to make way for this field.	and confirm	

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		all fields are replicated.	
01-5	Tom showed the Draft soil boring plan to Mike to explain the boring program, proposed locations, working hours, expectations with treatment of fields and turf, and schedule. Mike was fine with all items, and pointed at that these fields are not used until 5:00 PM at the earliest on weekdays, so there should be no conflicts.		Closed
01-6	Meeting recessed to allow SBC meeting.		
01-7	Tom, Mike, and Joe met briefly after the SBC meeting to exchange emails, and confirm next steps.  Mike stressed that field space is at a premium in town and that if net increases in field numbers can be achieved that would be preferable. Joe and Tom discussed the 8% cap on MSBA-reimbursable site costs, which was put in place so that only educationally-necessary athletic costs are included in the project, and that costs above that are fully borne by the Town.	DWA to email current Site Plan Options to Mike for further review and comment.	Open

The above is intended to be an accurate summation of this meeting. Please contact me with any additions, deletions, and/or corrections, for incorporation into these minutes. After 10 days, we will accept these minutes as an accurate summary of our discussion and enter them into the permanent record of the project.

Sincerely,

### DORE & WHITTIER ARCHITECTS, INC.

Architects ■ Project Managers

Tom Hengelsberg, AIA Project Manager

**c:** Attendees File





# **Evaluation Criteria Definitions & Scoring Rubric**

### **GENERAL INSTRUCTIONS**

This document is meant to be a companion to the Evaluation Matrix and to aid in the evaluation of preliminary alternatives. Its primary objective is to allow those participating in the evaluation process to compare each alternative to the others in order to identify a short list of alternatives for further development.

What follows is a series of short narratives describing the evaluation criteria and their respective scoring rubrics. Each criterion has been assigned a weight in the companion document, the Evaluation Matrix, in recognition that not all these evaluation criteria are of equal importance. Although evaluating alternatives is a subjective exercise, this document is intended to ensure that each person participating in the evaluation process is doing so with the same understanding.

We find it easiest to evaluate one criterion at a time by comparing how well each alternative performs. Examine how well each alternative performs relative to a single criterion and generate scores for each alternative on that one criterion. Move on to the next criterion and repeat.

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### 1. EDUCATION

**1.1 Benefit to Students** – This criterion evaluates how many students are positively impacted by the project. Alternatives that accommodate the 1030-student design enrollment are preferential to those that only accommodate the 510-student design enrollment.

```
5 points – Alternatives designed to accommodate 1030 students
4 points – Not used
3 points – Alternatives designed to accommodate 510 students
2 points – Not used
1 point – Alternatives that address capital improvements only
```

**1.2 Space Program** – Alternatives that fully accommodate the idealized Preliminary Space Summary (e.g. target sizes and counts of individual spaces) will score highest. Alternatives that only partially accommodate the idealized Preliminary Space will score lowest. Scoring rubric is a relative scale reflecting how much of the idealized space summary each alternative accommodated.

```
5 points – Alternatives that fully accommodate the Preliminary Space Summary
4 points –
3 points –
2 points –
1 point – Alternatives that accommodate almost none of the Preliminary Space Summary.
```

**1.3 Spatial Adjacencies** – Alternatives that fully reflect the desired spatial adjacencies (e.g. separation of public and private spaces, proximity of administration to main entry and parking, grade level teams, etc.) will score highest. Alternatives that are incapable of reflecting the desired spatial adjacencies will score lowest. Scoring rubric is a relative scale reflecting how much of the idealized space summary each alternative accommodated.

```
5 points – Alternatives that fully reflect the desired spatial adjacencies.
4 points –
3 points –
2 points –
1 point – Alternatives that are incapable reflecting the desired spatial adjacencies.
```

**1.4 Impact to Students During Construction** — Refers to the disruption to the student learning experience because of noise, dust, and the proximity of construction to the occupied building. Alternatives that position the new construction a greater distance from the existing building will score highest.

Alternatives that position new construction or renovation attached to or within the existing building will score the lowest.

- **5 points** New construction occurs as far from the existing building as possible and in the shortest timeframe.
- **4 points** New construction occurs near, but not attached to, the existing building as possible but still in the shortest timeframe.
- **3 points** New construction in the location of the existing building but without students in the existing facility and in multiple phases.
- **2 points** New construction occurs attached to and/or within the existing building and in multiple phases.
- **1 point** Construction occurs only within the existing building while students continue to occupy the building and over multiple phases.
- **1.5 Classroom Solar Orientation** Access to high-quality natural daylight has been demonstrated to improve student performance and to positively impact the building's energy efficiency. This criterion refers to the orientation of windows in classroom spaces. Alternatives that orient classroom windows to face North and South score highest. Alternatives that orient classroom windows to face East and West score lowest.
  - **5 points** All classroom windows are oriented North or South.
  - **4 points** Most classroom windows are oriented North or South.
  - **3 points** Classroom windows are evenly distributed between a North/South orientation and an East/West orientation.
  - 2 points Most classroom windows are oriented East or West.
  - 1 point All classroom windows are oriented East or West.

### 2. SCALE TO NEIGHBORHOOD CONTEXT, SWING SPACE, AND PERMITTING

- **2.1 Building Scale to Site** Refers to number of stories and the proximity of multistory portions to residential abutters. Alternatives that have fewer stories and are furthest from residential abutters will score highest. Alternatives that have more stories and are in close proximity to residential abutters will score lowest.
  - **5 points** Single story alternatives
  - **4 points** Two story alternatives where two-story portions are long distances from residential abutters.
  - **3 points** Two story alternatives where two-story portions are in close proximity to residential abutters. Three story alternatives where three story portions are long distances from residential abutters.
  - **2 points –** Three story alternatives where three-story portions are in close proximity to residential abutters.
  - **1 point** Three story alternatives where three-story portions are in close proximity to residential abutters and Crescent Street.

- **2.2 Swing Space NOT Required** Refers to the need to temporarily relocate students to modular or off-site swing space as a result of the alternatives' position on the site. Alternatives that do NOT require swing space will score the highest. Alternatives that require relocating students in modular construction on-site will score lower. Alternatives that require relocating students off-site will score lowest.
  - **5 points** Alternatives that do NOT require swing space (i.e. students can continue to occupy the existing building during construction.)
  - **4 points** Alternatives that require a portion of the students to be relocated to modular units on-site during construction.
  - **3 points** Alternatives that require a most of the students to be relocated to modular units on-site during construction.
  - **2 points** Alternatives that require a portion of the students to be relocated offsite during construction.
  - **1 point** Alternatives that require all students to be relocated off-site during construction.
- **2.3 Permitting** Refers to the difficulty and time associated with the permitting process. Typically, alternatives that encroach on wetlands, property line set-backs, or other zoning restrictions require more extensive permitting. Alternatives that do not encroach on these zoning restrictions will score highest. Alternatives that not only encroach, but violate these restrictions will score lowest. Scoring rubric is a relative scale reflecting the difficulty of the permitting process.
  - **5 points** Alternatives that conform to zoning restrictions and are easiest to permit.
  - 4 points -
  - 3 points -
  - 2 points -
  - **1 point** Alternatives that do not conform to zoning restrictions and are most difficult to permit.

### 3. SITE CIRCULATION

**3.1 Separation of Vehicles & Pedestrians** — Refers to how vehicles and pedestrians enter, circulate through, and exit the site. Alternatives that provide multiple site access points, clearly and completely separate bus vehicles, vans, parent vehicles, and pedestrians each from the others will score highest. Rubric is a relative scale from highly effective to least effective.

**5 points** – Clear separation of bus vehicles, parent vehicles, vans, and pedestrians.

- 4 points -
- 3 points -
- 2 points -

- **1 point** Little to no separation of bus vehicles, parent vehicles, vans, and pedestrians.
- **3.2 Parking** Refers to how many parking spaces are accommodated. Alternatives that achieve the desired number of parking spaces for faculty, staff, visitors, and event parking will score highest. Alternatives that cannot provide enough parking for even faculty and staff will score lowest.
  - **5 points** Enough parking exists to accommodate the FTE faculty & staff, visitor, and event parking.
  - **4 points** Enough parking exists to accommodate the FTE faculty & staff, and visitor parking but not event parking.
  - **3 points** Enough parking exists to accommodate the FTE faculty & staff parking but not visitor parking.
  - **2 points** Enough parking exists to accommodate the only a portion of the faculty & staff and some but not all visitor parking.
  - **1 point** Enough parking exists to accommodate the only a portion of the faculty & staff but not visitor parking.
- **3.2 Parent Queuing Length** Refers to the length available for parent vehicles to queue on site for pick-up time. Alternatives with the longest queue lengths will score highest. Alternatives with the shortest queue lengths will score lowest. Rubric is a relative scale from longest queue to shortest queue.
  - **5 points** Accommodates more queued parent vehicles (i.e. longest queuing length).
  - 4 points -
  - 3 points -
  - 2 points -
  - **1 point** Accommodates fewer queued parent vehicles (i.e. shortest queuing length).

### 4. SITE FEATURES

- **4.1 Outdoor Play Fields** Refers to how well each alternative accommodates open & mown play fields for educational purposes. Additional recreational sports fields would be considered a bonus. Alternatives that provide the most open, play fields will score highest. Alternatives that provide few or no play fields will score lowest.
  - **5 points** Alternatives that provide multiple open areas for play fields plus opportunity for at least one recreational sports field.
  - 4 points Alternatives that provide more than two open areas for play fields.
  - 3 points Alternatives that provide two open areas for play fields
  - **2 points** Alternatives that provide only one open play field.
  - **1 point** Alternatives that provide no open play fields.

- **4.2** Hardscape Play Areas—Refers to how well each alternative accommodates hardscaped play areas for student recess. Rubric is a relative scale from most hardscaped play area to least hardscaped play area.
  - **5 points** Alternatives that provide more square feet of hardscaped play area.
  - 4 points –
  - 3 points -
  - 2 points -
  - **1 point** Alternatives that provide least square feet of hardscaped play area.
- **4.3 Outdoor Learning Places** Refers to how well each alternative accommodates outdoor learning environments for educational purposes (e.g. arts plaza, sensory garden, amphitheater, etc). Alternatives that provide the most opportunities to accommodate outdoor learning environments will score highest. Alternatives that provide the few or no opportunities to accommodate outdoor learning environments will score lowest.
  - **5 points** Alternatives that provide multiple areas for outdoor learning environments.
  - 4 **points** Alternatives that provide more than two for outdoor learning environments.
  - **3 points** Alternatives that provide two for outdoor learning environments
  - **2 points** Alternatives that provide only one for outdoor learning environments.
  - **1 point** Alternatives that provide no for outdoor learning environments.
- **4.4 Play Structures** Refers to how well each alternative accommodates ageappropriate play structures (i.e. playground equipment). Alternatives that provide a designated play structure for each grade grouping (PK & K, 1<sup>st</sup> & 2<sup>nd</sup>, 3<sup>rd</sup> 4<sup>th</sup> & 5<sup>th</sup>) will score highest. Alternatives that provide only one structure to accommodate all age groups will score lowest.
  - **5 points** Alternatives that provide dedicated play structures for each of the grade level groupings.
  - 4 **points** Not used.
  - **3 points** Alternatives that provide two dedicated play structures, but not for all three grade level groupings.
  - 2 points Not used.
  - **1 point** Alternatives that provide one play structures shared for all grade level groupings.
- **4.5 Location of Site Features** Refers to adjacencies of site features (pkg, playgrounds, hardscapes, outdoor learning areas) to the building. Alternatives that place most or all of the site features closest to the alternative (bldg.) will score

highest. Alternatives that place most or all of the site features furthest away from the alternative (bldg.) will score lowest.

- **5 points** Alternatives that place all site features directly adjacent with ease of access to the proposed building.
- 4 points Not used
- **3 points** Alternatives that place some site features close and some site features further way from the proposed building.
- 2 points Not used
- **1 point** Alternatives that place no site features directly to the proposed building.
- **5. SAFETY & SECURITY** Refers to an alternative's ability to reflect the desired architectural safety and security features. Alternatives that fully express the desired architectural safety & security features score highest. Alternatives that can not fully express the desired safety & security features score lowest.
  - **5 points** Alternatives that fully express the desired architectural safety & security features
  - 4 points -
  - 3 points -
  - 2 points -
  - **1 point** Alternatives that can not fully express the desired safety & security features
- **6. TIME TO COMPLETION** Refers to the length of time needed to fully execute an alternative. Scoring rubric is a relative scale with the highest scoring alternatives having the fewest phases. Alternatives with the most phases will score the lowest.
  - **5 points –** Solution that could be executed in the fewest number of phases
  - 4 points -
  - 3 points -
  - 2 points -
  - 1 point Solution that could be executed in the highest number of phases
- **7.1 Total Project Cost** Refers to the full and complete cost necessary to execute an alternative prior to MSBA contribution. These costs include both construction costs (labor, materials, overhead and profit for the GC or CM) and soft costs (professional fees, contingencies, swing space). Scoring is a simple ranking of the alternatives in order. Least expensive alternatives will score highest. Most expensive alternatives will score lowest. Since scores are only on a five point scale, alternatives in close proximity to one another should be scored identically.
  - **5 points** Least expensive.
  - 4 points –
  - 3 points -

```
2 points –1 point – Most expensive.
```

**7.2 Total Construction Cost** — Refers to construction costs only (labor, materials, overhead and profit for the GC or CM). Scoring is a simple ranking of the alternatives in order. Least expensive alternatives will score highest. Most expensive alternatives will score lowest. Since scores are only on a five point scale, alternatives in close proximity to one another should be scored identically.

```
5 points – Least expensive.
4 points –
3 points –
2 points –
1 point – Most expensive.
```

**7.3 Swing Space Cost** — Refers to portion of soft costs associated with swing space should it be necessary (e.g. modular classroom units, rental or renovation costs associated with off-site space, etc.) Scoring is a simple ranking of the alternatives in order. Alternatives with no swing space costs will score highest. Most expensive swing space alternatives will score lowest. Since scores are only on a five point scale, alternatives in close proximity to one another should be scored identically.

```
5 points – Least expensive.
4 points –
3 points –
2 points –
1 point – Most expensive.
```

**7.4 Total Cost to Town** — Refers to the full and complete cost to the Town of Northbridge necessary to execute an alternative once MSBA's contribution is taken into account. MSBA's contribution may vary by alternative depending on what may be deemed ineligible for reimbursement. Least expensive alternatives to the Town will score highest. Most expensive alternatives to the Town will score lowest. Since scores are only on a five point scale, alternatives in close proximity to one another should be scored identically.

```
5 points – Least expensive.
4 points –
3 points –
2 points –
1 point – Most expensive.
```

# Preliminary Evaluation of Alternatives - Balmer School

(1 = least successful, 5 = Most Successful)

	Revised 8-25-17					-		-	-	•	
	(Y)	Option A	Option B1 510 Students	Option B2 510 Students	Option B3 510 Students	Option C1 1030 Students	Option C2 1030 Students	Option C3 1030 Students	Option C4 1030 Students	Option C5 1030 Students	Option C6 1030 Students
WEIGHT	30	VIP Only	Renovation/	New Construction @ Balmer -	New Construction @ New Construction @ Balmer - RRONT			New Construction @ Balmer	New Construction @ Balmer	New Construction @ Balmer	New Construction @ Balmer
			Addition @ Balmer	REAR OF SITE	SITI	DEMO EXIST ACADEMIC WING	KEEP & RENO ACADEMIC WING	REAR OF SITE	EAST EDGE OF SITE/REAR	FRONT OF SITE	Gen. Description TBD
1	1. Education										
	Provides greatest benefit to most number of students										
	1.2 Satisfies the Space Program										
	1.3 Satisfies the Spatial Adjacencies										
	1.4 Impact to Students During Construction										
	1.5 Classroom Solar Orientation										
	Weighted Score	0	0	0	0	0	0	0	0	0	0
ĺ											

10	2. Scale to Neighborhood Context, Swing Space, and Permitting										
m	2.1 Building Scale to Site										
5	2.2 Swing Space Not Required										
2	2.3 Permitting (time, difficulty)										
	Weighted Score	0	0	0	0	0	0	0	0	0	0

07	10 3. Site Circulation										
7.5	3.1 Separation of Cars, Buses, Vans, and Pedestrians										
3	3.3 Parking										
2	3.4 Provides Sufficient Space for Parent Queue										
	Weighted Score	0	0	0	0	0	0	0	0	0	0

4. Site Features	4.1 Provides Outdoor Play Fields / Area	4.2 Provides an Opportunity / Location for a Hardscape Play Area	4.3 Provides an opportunity for outdoor learning places	4.4 Provides Area for Age-appropriate Play Structure(s)	4.5 Location of Site Features	Weighted Score 0 0 0
						0 0
						0
						0
						0
						0
						0

Preliminary Evaluation of Alternatives - Balmer School

Sevised 8-25-17				(1 = least successful,	(1 = least successful, 5 = Most Successful)						
		Option A	Option B1	Option B2 510 Students	Option B3	Option C1	Option C2	Option C3	Option C4	Option C5	Option C6
30		y c O a C	Renovation/	New Construction @	@ <u>F</u>	Ad		New Construction @ Balmer	Se	New Construction @ Balmer	New Construction @ Balmer
			Addition @ Balmer	REAR OF SITE	OF SITE	DEMO EXIST ACADEMIC WING	KEEP & RENO ACADEMIC WING	REAR OF SITE	EAST EDGE OF SITE/REAR	FRONT OF SITE	Gen. Description TBD
5. Safety & Security Features											
Weight	Weighted Score	0	0	0	0	0	0	0	0	0	0
6. Time to Completion											
Weight	Weighted Score	0	0	0	0	0	0	0	0	0	0

**SUB-TOTALS** 

20	7. Cost																
5	7.1 Total Project Cost	\$	•	\$		\$	\$	•	\$ ı	\$	1	· \$	\$		\$	•	\$ 1
	Score																
		Weighted Score	0	0		0		0	0	0		0		0		0	0
3	7.2 Total Construction Cost	Cost \$		\$		\$	\$ -	•	\$ •	\$	1	٠.	\$ -	•	<b>\$</b>	•	\$
	Score																
		Weighted Score	0	0		0		0	0	0		0		0		0	0
2	7.3 Swing Space	\$	-	\$	-	\$	\$ -	-	\$ •	\$	-	. \$	\$ -	•	\$	-	\$ -
	Score																
		Weighted Score	0	0		0		0	0	0		0		0		0	0
10	7.4 Total Cost to Town	\$		\$		\$	\$ -	•	\$ •	\$	-	· \$	\$ -	•	\$	•	\$ •
	Score																
		Weighted Score	0	0		0		0	0	0		0		0		0	0
		Weighted Score	0	0		0		0	0	0		0		0		0	0

FINAL RANKINGS

100 GRAND TOTALS

From: Lundquist, Jeff

To: Joseph Strazzulla; Traniello, Sarah; Seeley, Joel
Subject: JDL comments - Balmer School siteplans
Date: Monday, September 4, 2017 10:38:03 PM

### Joe/Sarah/Joel:

Please find below a few of my initial comments on the siteplans provided at our last meeting for your use. Please note I will not be able to make the next meeting on 9/13 due to a project commitment in Cambridge.

- 1) New Facility Layout comments
  - a. I believe we need to see a couple layouts of the new PK-5 facility on the Balmer site (in the back) with a simple one-way flow from Crescent to N. Main Street.
    - i. The traffic of the new facility will be increased (almost double) from what we currently experience at Balmer (which is a challenge). I do not believe that Crescent/Swift Street (even with two entrances), Lake Street, and Arcade Street can remotely handle the increased two-way (and left-turning) traffic, even if multiple traffic lights are installed. Lets keep in mind that due to bussing we'll need grades K-5 to all start school at the same time, not staggered as we have it now, and it will be closely followed by the PK dropoff, which requires parking and not "drop-and-go." N. Main Street would be much better suited to handling that traffic volume than Crescent, Lake, and Arcade, and a layout with the school in the "back" of the site would provide for more parking.
    - ii. As for the access to North Main Street, with our 40' right-of-way, we could install a one-way vehicular exit, with sidewalks. The sight distance at the intersection with N. Main isn't great, and will likely require a traffic light (\$60k). I'd also expect we'll need a traffic light at the N. Main Street / Main Street intersection to address the increased traffic, which are typically included in a project. This one-way exit could be directionally lighted, fenced, and have appropriate cameras to address the security concern in that area that has surfaced several times, and operationally the fence could be closed/locked at the end of after-school activities.
    - iii. We will definitely need the N. Main Street access for construction logistics. I'd expect that ultimately we'd require the contractors to hire a NPD detail for this entrance when deliveries are expected.
    - iv. Should we have a separate drop off and entrance for the pre-k?

      Logistically it's different than the general drop-off, as the parents park and wait with the students until the doors are opened.
  - b. I do not believe that any layout with the new facility on the current Vail field will be viable due to the need to separate construction and school traffic, and the need for appropriate laydown areas for construction. This will particularly be an issue at the end of the school/workday as the traditional construction shift will end at the same time that school will end. Contractor parking will further restrict this option. I'd expect a facility of this size should peak at around 70-80 workers, for which parking

- will take up a significant amount of space (unless we get into satellite parking which is a possibility).
- c. We should be careful about the landscaping that is shown at the public meetings and ultimately designed onto the site. Keeping in mind that a few parents have been the ones pulling weeds from the flower-gardens before school started at both schools over the last few years, we need to choose as maintenance free landscaping as we can, even if it doesn't look as nice originally (potentially including drainage swales, etc...)

### 2) Renovation logistics

- a. I realize the initial renovation plans are conceptual, however the challenge we'd have in this facility is that any new classroom wings will need to be supported by appropriate mechanical infrastructure such as new boilers, condensers/chillers (depending on the mechanical system chosen), head-end for the sprinkler system (which may need a pump and/or tank, depending on if we have adequate pressure and volume), etc. These would likely need to be addressed in the first phase of any renovation, since they'd be needed to support a new classroom wing to become "swing space". This (coupled with item b) would likely lead to us having to renovate the core over a summer to have adequate utilities for when school re-starts.
- b. From a phasing perspective, the volume and location of the asbestos abatement will be a driver of any sequence. I do not see any way that we will be able to do large-scale abatement while school is in session (I've tried it and it just doesn't work), and could be a deal-breaker if we're trying to get support for the project. This leads us to having to do abatement in the summer(s) (barely 10 weeks), followed by trying to ensure adequate finishes are in place before school re-starts. I expect that we'll find that the existing roofing mastic is asbestos containing as well, which will also be a phasing challenge, as it will also need to be addressed in the summer, along with a complete roof replacement.
- c. Would the district consider starting school for Balmer a week or two early in 2019 or 2020, to allow for extra weeks of abatement/construction in the core in the summer of 2020 or 2021? If we choose the renovation option, this is likely a decision we'd have to consider due to items a and b above.

### 3) Timing

a. The only time to effectively complete a new school is in the summer (ideally early July). I've tried mid-year and vacation week move-ins, and they get done, but they typically are a disaster. Finishing the facility before July is not helpful to us, as then we just have to maintain another building. What this means is that if we pass our bond issue in the fall of 2018, and based upon the new PK-5 option (say 175,000 SF) — we'd need a 14-16 month construction duration (I've built similar size facilities in as little as 10 months, but on average they've taken 12-14 months). Since the MSBA program doesn't allow us to fast-track the project, we're likely looking at a fall 2021 opening, leading to an early 2020 construction start.

### 4) FF&E

a. I'd recommend that we be cautious at the public meetings in showing elaborate furniture, keeping in mind the MSBA cap on FF&E/Technology expenditures. I'd prefer not to raise the expectation that we'll be getting something fancy, then we

- find out that we can't afford it from a budgetary standpoint.
- b. I also believe we should be careful on presenting the "New Albany, OH" schools as an example of what can be done at the public meetings. We used to live about 20 minutes away from New Albany, and it is one of the wealthiest communities in the country. I believe their schools were funded by one individual (who is one of the wealthiest individuals in the country) that purchased a 200 acre campus and paid for the school to have the best facilities in the country. While I wish that was our situation, reality tells me that the features shown will likely be significantly over our budget. I'd like to make sure we manage expectations on this.

### 5) Other comments

- a. I thought the comments by the individual who spoke during the public comments portion of the meeting were interesting. I believe we should definitely consider working with the selectmen to implement his suggestion of doubling the senior tax abatement. I believe that would potentially generate considerably more support amongst a group that would typically support the schools, but may find themselves in a fixed income situation, tempering their backing.
- b. I'd like to see the preliminary estimates before the 9/13 meeting, so I can review them and provide my comments to you before the meeting.

Those are my comments for now – if you have any questions, please do not hesitate to contact me.

Thank you,

Jeff Lundquist, LEED AP+ Senior Project Manager

The Richmond Group 77 Main Street Hopkinton, MA 01748 **T** 508.435.9700 • **F** 508.435.9718 • **C** 774.278.1592

# **School Building Committee Community Survey**

As the School Building Committee prepares its recommendation for a Preferred Schematic Design to the Massachusetts School Building Authority, it is important that we hear from you.

Please complete the following short survey; the results will help guide the decision-making process as the School Building Committee continues its important work.

1.	Stu Pai No No No No No	
2.		the current W. Edward Balmer Elementary School building hold sentimental
		to you?
	☐ Yes	
	<b>–</b> 110	
3.		of the following options do you support as being the most needed? ep a separated Grades PreK-1 school, a Grades 2-4 school and the 5 <sup>th</sup> Grade in the
		ddle School
	☐ Co	nsolidate Grades PreK-5 into one school
4.		s the most important consideration in the decision-making process for mending a capital school building project to the Northbridge Community for
		val? Please rank the following priorities with 1 being the most important and 6
		the least important.
		Cost – minimal impact to taxpayers
		Education – greatest benefit to all learners
		Separate Schools – maintain separate Grades PreK-1 and Grades 2-4 schools
		Consolidation – one consolidated PreK through Grade 5 elementary school
		Grade 5 – relocation from Northbridge Middle School to an elementary school setting
		Grade 5 – maintain current Grade 5 through Grade 8 at the Northbridge Middle School



# **School Building Committee Community Survey**

·-	Is there another important consideration that is not listed above? If so, please explain.
	How can the School Building Committee improve communication with the public
	regarding this project and state grant?

# NORTHBRIDGE PUBLIC SCHOOLS

# W. EDWARD BALMER SCHOOL

Join us for our third community meeting on

# September 18, 2017

To learn about progress and share your thoughts on a new or renovated school project!

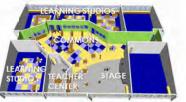
We want to hear from you!

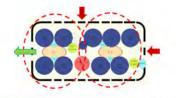
# **QUICK RECAP**

Catch up on what you might have missed:

- Condition of the Facilities
- Space Needs
- Educational Needs
- Educational Vision for the Future







# REVIEW DESIGN ALTERNATIVES

Give feedback on ideas for:

- site and building diagrams
- site circulation: busses, cars, people, bikes
- · how the design works, inside and out

# SHARE YOUR THOUGHTS

Tell us what you think of the options:

- what are advantages and disadvantages
- which meet educational needs the best

# LEARN ABOUT PROJECT COSTS

**Evaluate the preliminary cost models:** 

- information on cost of each option
- projections of tax impact
- discuss State reimbursement and Town share



# **MEETING LOCATION:**

# Balmer Elementary School Cafeteria

21 Crescent Street, Whitinsville

September 18 - 6:00 - 8:00 PM

CHILD CARE WILL BE PROVIDED

Project Website: <a href="https://www.nps.org/w-edward-balmer-school-building-project">https://www.nps.org/w-edward-balmer-school-building-project</a> Project Email: <a href="mailto:BalmerSBC@smma.com">BalmerSBC@smma.com</a>



SPONSORED BY THE BALMER SCHOOL BUILDING COMMITTEE

SMMA – Owner's Project Manager

**Dore & Whittier Architects** 



Northbridge School Building Committee - PR Subcommittee

September 5, 2017

Meeting called to order at 6:00pm

In attendance: Peter L'Hommedieu, Andrew Chagnon (departed 7:10pm), Mike LeBrasseur and

Superintendent Catherine Stickney

Not present: Spencer Pollock, Kathy Perry

Reviewed Goal and Mission of PR Subcommittee:

Goal: Successful town acceptance of recommended Balmer School Project

Mission: Create a strategy and implement a plan to keep the voters and parents of Northbridge informed about this project, its importance to the town and children of Northbridge.

Discussed segments of community to reach:

- Parents
- Future parents discussed the many new neighborhoods still in construction in town (including Camelot, Presidential, Highland between Benson and Fowler, Off Carpenter, Shining Rock, Off Sutton)
- Likely voters
- Seniors
- Recent graduates/voting age students
- Who can help us spread the word...boards and commissions (BOS, Fincom, Conservation, planning) – important to meet and gain input/acceptance of these committees

Discussed channels to reach community:

- Newspapers Letters to the editor, articles, Press Releases
  - o Telegram, BV Tribune, Uxbridge Times
  - o Inserts (fee)
- Facebook Agreed the SBC did not need a separate FB account, but discussed encouraging members to follow and share content from "Northbridge Public Schools" and "Mike for Schools" and other school related pages to extend the reach of information
- Twitter Did not feel is necessary for SBC.
- YouTube Maintain current NPS Channel to share/promote meetings and videos
- NPS.org/SBC School Building Community direct link continue to drive people to hear as main source in information
- Public events Identify various events in the community at which SBC members could be present to answer questions/share information – including all school activities,

sporting events, concerts, and other community events (WCC Event, St. Patrick's Festival)

- Action: Superintendent Stickney to provide list of all scheduled school events through October
- Action: Once we have the list, will be asking for SBC members to volunteer to staff events
- Question: Joel/D&W can we have some time of information Pop Up Sign made to bring to events?
- Other community organizations Outreach to attend meetings/share updates/answer questions with these groups, such PTA, Booster clubs, sports leagues, scouts, church groups
  - o Action: SBC Members identify organizations you can work with
- Message boards Promote meetings/events through message boards at Town Hall,
   Middle School...Sandwich boards outside Balmer/NES/HS
- Businesses Can we engage businesses to be a part of the process?
  - o Action: SBC member suggestions/recommendations?

### Discussed message development/talking points:

- Key points include:
  - MSBA "criteria" -- Project must be sustainable, educationally appropriate and financially responsible
  - The MSBA is not interested in spending tax dollars on whatever we or any other community wants to build – they have a rigorous process with checks and balances which protects taxpayer's money (at state and local levels)
  - The town has been submitting SOIs for nearly 10 years for this opportunity. We are invited in and will receive at least 57% reimbursement of eligible expenses. If this project does not pass, we will not have this opportunity again in the near future.
  - If project does not pass, we will still have two old schools in serious need of repair/renovations
  - Combining both schools provides the most "bang for our buck" and addresses two schools with serious deficiencies, avoids another major project not further down the road
  - Must discuss Tax abatement opportunities for seniors/fixed income residents to minimize their impact

### Other actions/items discussed

- Action: Joel, can we have a digestible timeline of all the steps we've gone through so far to show the process/due diligence along the way
- Action: Research other major capital projects for the schools over the past 20-30 years
- Action: Status of the FAQ? How can we get this out, continue to evolve update
- Action: Mike to contact members involved in HS project for advice/input

Motion to adjourn by Peter L'Hommedieu, seconded by Mike LeBrasseur. Motion carried 3-0. Meeting adjourned at 7:30pm

TO: Director of Capital Planning

FROM: Dr. Catherine Stickney

Northbridge Public Schools

W. Edward Balmer School Project

MSBA Project ID Number: 201502140001

DATE: July 31, 2017

RE: Feasibility Study Agreement (FSA) Budget Revision Request, NUMBER: 1

MASSACHUSETTS SCHOOL BUILDING AUTHORITY (the "Authority"), the District hereby requests a revision to the Feasibility Study Budget, Exhibit A, dated March 22, 2016, for the W. Edward Balmer School Project. As required, the District has provided the information outlined in the table below to indicate Pursuant to the Feasibility Study Agreement between the TOWN OF NORTHBRIDGE of Northbridge, Massachusetts (the "District") and the the Feasibility Study Budget categories (line items) affected, the amounts needed and the reasons for the proposed revision.

The District acknowledges and agrees that it will not seek reimbursement from the Authority for any costs that exceed the already approved line item limits set forth in Exhibit A until after the Authority has accepted this Feasibility Study Budget Revision Request, and the Authority's ProPay system has been adjusted accordingly

The District further acknowledges and agrees that in accordance with Section 3.3 of the Feasibility Study Agreement, any revisions to the Feasibility Study Budget will not result in an increase to the grant amount set forth in Section 2.1 of the Feasibility Study Agreement. The District further acknowledges and agrees that the need for these revisions to the Feasibility Study Budget will be identified in the OPM monthly report as required pursuant to the Contract for Owner's Project Management Services between the District and the OPM.

reviewed and approved by the Town of Northbridge and Northbridge School Building Committee, and it further certifies and acknowledges that the funds to pay The District further acknowledges and agrees that all of the information contained in this Feasibility Study Agreement Budget Revision Request has been for the costs associated with these proposed revisions are available as indicated by the signatures noted below.

The Total Budget in the Current Feasibility Study Budget, Exhibit A of the FSA dated March 22, 2016 is \$775,000.00

From Class' Code	From Classification Name	To Class' Code	To Classification Name	Budget Revision Amount	Reason for transfer (Attach all supporting documentation, e.g., executed contracts, amendments and or supporting invoices for reimbursable expenses)	Amount Remaining in Other	Ineligible/Cost/Scope Items excluded from the Total Facilities Grant
00010000	00010000 OPM - Feasibility Study	00040000 Other	Other	\$75,000	\$75,000 Final Negotiated Fee	\$75,000.00	
00020000	A&E - Feasibility Study	00030000	Environmental & Site	\$100,000	\$100,000   Final Negotiated Fee	\$75,000.00	
00040000 Other	Other	00030000	00030000 Environmental & Site	\$10,000	\$10,000   Final Negotiated Fee	\$75,000.00	

By signing this Total Project Budget Revision Request, I hereby certify that I have read and understand the terms of this Request and further certify that the information supplied by the District in the tables is true, accurate and complete.

By signing this Total Project Budget Revision Request, I hereby certify that I have read and understand the terms of this Request and further certify that the information supplied by the District in the tables is true, accurate and complete.

By signing this Total Project Budget Revision Request, I hereby certify that I have read and understand the terms of this Request and further certify that the information supplied by the District in the tables is true, accurate and complete.

By: James Marzec

Title: Chief Executive Officer

Date: July 31, 2017

By: Dr. Catherine Stickney

Title: Superintendent of Schools

Date: July 31, 2017

: Michael LeBrasseur

Title: Chair of the School Committee

Date: July 31, 2017

MASSACHUSETTS SCHOOL BUILDING AUTHORITY

By John & Lumber

Title: Director of Capital Planning Poject Mqt

Date: 1/6/

PROPOSED

New

MSBA Guidelines (refer to MSBA Educational Program & Space Standard Guidelines)

Comments

area totals

# OF RMS

ROOM NFA<sup>1</sup>

area totals

# OF RMS

ROOM NFA<sup>1</sup>

area totals

# OF RMS

ROOM NFA<sup>1</sup>

area totals

Total

1,100 SF min - 1,300 SF max 1,100 SF min - 1,300 SF max 900 SF min - 1,000 SF max

9,600

8 37

1,200 1,200 950

4,800 10,800 36,000

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1,200 1,200 900

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44,750

45

Grades PK - 5 Option							
W. EDWARD BALMER SCHOOL	ĒX	Existing Conditions	litions		Existing	Existing to Remain/Renovated	Renovated
ROOM TYPE	ROOM NFA <sup>1</sup>	# OF RMS	area totals	žΖ	ROOM NFA <sup>1</sup>	# OF RMS	area totals
CODE ACADEMIC CDACES			35.060				
			43,000				
Pre-Kindergarten w/ toilet			0				
Kindergarten w/ toilet			0				
General Classrooms - Grade 1-5			0				
LEVEL 1							
General Classrooms - Grade 1-6 - 2	062	-	290				
General Classrooms - Grade 1-6 - 3	793	_	793				
General Classrooms - Grade 1-6 - 4	1,126	_	1,126				
General Classrooms - Grade 1-6 - 5	942	_	942				
General Classrooms - Grade 1-6 - 6	931	_	931				
General Classrooms - Grade 1-6 - 7	1,123	-	1,123				
General Classrooms - Grade 1-6 - 8	298	-	867				
General Classrooms - Grade 1-6 - 9	931	~	931				
General Classrooms - Grade 1-6 - 10	875	_	875				
General Classrooms - Grade 1-6 - 11	1,022	-	1,022				
General Classrooms - Grade 1-6 - 12	941	-	941				
General Classrooms - Grade 1-6 - 13	902	_	906				
General Classrooms - Grade 1-6 - 14	826	-	938				
LEVEL 2							
General Classrooms - Grade 1-6 - 15	1,099	1	1,099				
General Classrooms - Grade 1-6 - 16	1,049	_	1,049				
General Classrooms - Grade 1-6 - 17	873	1	873				
General Classrooms - Grade 1-6 - 18	862	-	862				
General Classrooms - Grade 1-6 - 19	878	-	878				
General Classrooms - Grade 1-6 - 20	606	-	606				
General Classrooms - Grade 1-6 - 21	998	-	866				
General Classrooms - Grade 1-6 - 22	891	-	891				
General Classrooms - Grade 1-6 - 23	998	-	866				
General Classrooms - Grade 1-6 - 24	882	-	882				
General Classrooms - Grade 1-6 - 25	875	_	875				
General Classrooms - Grade 1-6 - 26	1,207	_	1,207				
General Classrooms - Grade 1-6 - 27	1,079	-	1,079				
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2,000 150 1,200 150

1,000 75 1,200 150

7,000

1,000

200

540

540

K-5 Extended Learning Area/Commons PK Extended Learning Area/Commons

Teacher Planning/Collaboration

Computer Lab

Maker Space/Project Room PK-K; 1-2 Project Room Storage Maker Space/Project Room 3-4-5 Project Room Storage

							۵	PROPOSED								
Grades PK - 5 Option							•									
W. EDWARD BALMER SCHOOL	Exis	Existing Conditions	ions	Exi	Existing to Remain/Renovated	ited		New			Total		(refer t	o MSBA Edt	MSBA ( ucational Prog	MSBA Guidelines (refer to MSBA Educational Program & Space Standard Guidelines)
ROOM TYPE	ROOM NFA <sup>1</sup>	# OF RMS	area totals	ROOM NFA <sup>1</sup>	# OF RMS	area totals	ROOM NFA <sup>1</sup>	# OF RMS	area totals	ROOM NFA <sup>1</sup>	# OF RMS area totals	ıtals	ROOM NFA <sup>1</sup>	# OF RMS	area totals	Comments
SPECIAL EDUCATION			3,896			0			13,415			0			11,070	
(List rooms of different sizes separately)																
Self-Contained Sped for PK							1,300	_	1,300							
Self-Contained SPED - toilet for PK							120	- 0	120							
Self-Contained SPED - toilets Self-Contained SPED - toilet/ chand/shwr/Hova							120	7	240							
Self-Contained SPED (Intensive) - CR1	1 018	-	1018				1 000	-   4	4 000				950	7	6 650	OBC proviosance show in more 30,000
Self-Contained SPED - toilet (Girls)	108		108				09	- 0	000				09		420	_
OTIDI	100		100						0							
OT/PI Koom	287	- ,	287						0							
UI/PI Storage	214		214						0 0							
TOILET (BOYS) PT / Adaptive PF	2	-	2				200	-	500							
OT Room							200		200							
Self-Contained SPED CR2	581	- ,	581													
SPED Storage	/4/	- <	74													
Speech Room	228		228													
SPED CR 3	262	_	265													
Speech Therapy	241	-	241													
T::1 - 1 Ott - 1 Ott - 1 Ott - 1									007							
Student Support Services Suite: ELL(1) /SPED (6)/							004	-	004							
Speech (2) (PK-2)							880	_	880							
Student Support Services Suite: ELL (1) /SPED (7)/							000	•	0			_				
Speech (2) (3-5)							125	- «	375							
Resource Room (PK-K; 1-2; 3-4-5)			0				350	ာ က	1,050				200	5	2,500	1/2 size Genl. Clrm.; conf room set up
Small Group Room / Reading	88	_	88				120	27	3,240				200	က	1,500	-
ART & MUSIC			943			0			5.150			0			7.575	
Art Classroom - 25 seats			0				1,000	2	2,000				1,000	8	3,000	assumed schedule 2 times / week / student
Art Workroom w/ Storage & kiln			0				150	2	300				150	3	450	_
Music Classroom / Large Group - Rm 1	874	_	874				1,200	2	2,400				1,200	3	3,600	assumed schedule 2 times / week / student
Music Practice / Ensemble			0				75	2	150				75	7	525	
Music Storage Music Ensemble	69	~	69			+	300	-	300							
HEALTH & PHYSICAL EDUCATION			4,184			0			6,300			0			6,300	
Gymnasium	3,701	-	3,701				0,000	_	000'9				6,000	_	0000'9	6000 SF Min. Size
Gym Storeroom	351	-	351				150	-	150				150	τ,	150	
Health Instructor's Office w/ Shower & Tollet	132	-	132				150	- 0	150				150	-	150	
Movement Studio/ Small Gym PE Storage							3,500	0 0								
							3									
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### Elementary School Space Summary

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updated 9-5-1/															
Grades PK - 5 Option								PROPOSED							
W. EDWARD BALMER SCHOOL	Ä	Existing Conditions	suc	Existi	Existing to Remain/Renovated	Renovated		New			Total		ני (ני	MSBA ifer to MSBA Educational Pro	MSBA Guidelines (refer to MSBA Educational Program & Space Standard Guidelines)
ROOM TYPE	ROOM NFA <sup>1</sup>	# OF RMS	area totals	ROOM NFA <sup>1</sup>	# OF RMS	area totals	ROOM NFA <sup>1</sup>	# OF RMS	area totals	ROOM NFA <sup>1</sup>	# OF RMS	area totals	ROOM NFA <sup>1</sup>	M # OF RMS area totals	Comments
MEDIA CENTER			3,246			0			5,305			0		5,305	
Media Center / Reading Room	2,430	_	2,430				3,225	-	3,225				5,305	5 1 5,305	
Audio/Visual	386	-	386						0						
Project Sm Group Rm	140	1	140				120	7	240						
Library Storage	142	1	142				180	_	180						
Office/Work Room	148	<b>~</b>	148				140	<u></u> −	140						
Teaching Area			-				400	_	400						
Green Screen Video Room			-				200		200						
Audio/ Edit Booth			-				120	_	120						
Satellite Reading Areas - in academic areas							200	4	800						
Maker Space							0	0	0						this is in academic now
DINING & FOOD SERVICE			7,705			0			11,955			0		1.	
Cafeteria / Dining	3,377	_	3,377				7,725	-	7,725				7,725	5   1   7,725	2 seatings - 15SF per seat
Stage	965	_	965				1,000	_	1,000				1,000	1	
Chair / Table / Equipment Storage	287	_	287				220	_	220				543	1   543	
Kitchen	1,707	-	1,707				2,330	-	2,330				2,330	0 2,330	1600 SF for first 300 + 1 SF/student Add"
Dishwashing	215	_	215						0						
Managers Office	92	-	92						0						
Dry/Cold Storage	546	-	546						0						
Locker/Toilet	96	-	96						0						
Storage	106	-	106						0						
Subtotal Kitchen	2,762								0						
Staff Lunch Room	314	-	314				350	-	350				358	1 358	20 SF/Occupant
MEDICAL			869			0			810			0		810	
Medical Suite Toilet	23	_	23				09	-	09				09	1 60	
Nurses' Office / Waiting Room	105	-	105				250	-	250				250	1 250	
Examination Room / Resting	315	-	315				100	2	200				100	2	
Dental Exam Rm	82	-	82												
Office	98	~	98												
Storage	87	-	87												

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W. EDWARD BALMER SCHOOL	Exi	Existing Conditions	tions	Existinę	Existing to Remain/Renovated		New		Ţ	Total	(refer to	MSBA Educational Pr	MSBA Guidelines (refer to MSBA Educational Program & Space Standard Guidelines)
ROOM TYPE	ROOM NFA <sup>1</sup>	# OF RMS	area totals	ROOM NFA <sup>1</sup>	#OF RMS area totals	ROOM #(	# OF RMS are	area totals	ROOM # OF RMS	RMS area totals	ROOM NFA <sup>1</sup>	# OF RMS area totals	Comments
ADMINISTRATION & GUIDANCE			2,560		0			3,165		0		3,165	
General Office / Waiting Room / <del>Toilet</del>	555	_	555			625	-	625			665	1 665	
Toilet	29	2	28					0					
Closet	28	-	28					0					
Closet	12	-	12					0					
Teachers' Mail and Time Room			0			100	_	100			100	1 100	
Duplicating Room			0			150	_	150			150	1 150	
Records Room			0			110	_	110			110	1 110	
Principal's Office w/ Conference Area	214	-	214			275	2	250			375	1 375	-
Principal's Secretary / Waiting			0			125	_	125			125	1 125	
Assistant Principal's Office	208	1	208			120	2	240			120	1 120	
Supervisory / Spare Office			0			120	0	0			120	1 120	
Conference Room	236	7	236			250	1	250			250		
Guidance Office	332	-	332			150	0	0			150	3 450	
Planning Room	233	-	233										
Guidance Storeroom			0			35	0	0			35	1 35	9
SPED Coord Office	168	-	168			150	0	0					
Teachers' Work Room (Level 2)	516	-	516			665	0	0			665	1 665	
Psychologist						150	1	150					
Adjustment Counselor						150	2	300					
Hoteling Space						200	1	200					
Academic Coaches Office						120	2	240					
Team Chair Office						125	1	125					
Instructional Technologist						0	0	0					
CIISTODIAI & MAINTENANCE			1 220		c			2 630				2 630	
Custodian's Office	125	-	125			150	_	150			150	1 150	
Custodian's Workshop	178	-	178			375	-	375			375	1 375	
Custodian's Storage	89	-	89			375	_	375			375	1 375	
Recycling Room / Trash			0			400	_	400			400	1 400	
Receiving and General Supply	849	-	849			450	_	450			443	1 443	
Storeroom			0			089	1	089			289	1 687	
IT Office - Instructional Technologist						150	0	0					
Network / Telecom Room			0			200	_	200			200	1 200	

MSBA Guidelines (refer to MSBA Educational Program & Space Standard Guidelines) Comments PROPOSED ENROLLMENT 149,350 93,561 1.60 area totals # OF RMS ROOM NFA<sup>1</sup> area totals #DIV/0i # OF RMS Total ROOM NFA<sup>1</sup> 500 172,845 200 115,230 1.50 area totals PROPOSED # OF RMS New ROOM NFA<sup>1</sup> 200 area totals **Existing to Remain/Renovated** # OF RMS ROOM NFA<sup>1</sup> **1,003**498
505 71,871 50,515 area totals **Existing Conditions** # OF RMS ROOM NFA<sup>1</sup> 498 505 W. EDWARD BALMER SCHOOL **Grades PK - 5 Option** Proposed Student Capacity / Enrollment Total Building Gross Floor Area (GFA)<sup>2</sup> Total Building Net Floor Area (NFA) ROOM TYPE Book/Supply Storage (Level 2)
Parents/ Community Room Supply Storage (Level Grossing factor (GFA/NFA)

footage measured from the inside face of the perimeter walls and includes all specific spaces assigned to a particular program area including such spaces as non-communal toilets and storage rooms. Includes the net square <sup>1</sup> Individual Room Net Floor Area (NFA)

Includes the entire building gross square footage measured from the outside face of exterior walls

<sup>2</sup> Total Building Gross Floor Area (GFA)

I hereby certify that all of the information provided in this "Proposed Space Summary" is true, complete and accurate and, except as agreed to in writing by the Massachusetts School Building Authority, in accordance with the guidelines, rules, regulations and policies of the Massachusetts School Building Authority to the best of my knowledge and belief. A true statement, made under the penalties of perjury. **Architect Certification** 

Elementary School Space Summary

MSBA Guidelines (refer to MSBA Educational Program & Space Standard Guidelines)

Comments

area totals

# OF RMS

ROOM NFA<sup>1</sup> 1,100 SF min - 1,300 SF max 1,100 SF min - 1,300 SF max 900 SF min - 1,000 SF max

4,800

4 8

1,200 1,200 950

21,900

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revision 9-5-17

W. EDWARD BALMER SCHOOL	Exi	Existing Conditions	itions		
ROOM TYPE	ROOM NFA <sup>1</sup>	# OF RMS	area totals		₩ ≥
CORE ACADEMIC SPACES			25,060		
(List classrooms of different sizes separately)					
Pre-Kindergarten w/ toilet			0		
Kindergarten w/ toilet			0		
General Classrooms - Grade 1-6			0		
LEVEL 1					
General Classrooms - Grade 1-6 - 2	790	_	2007		
General Classrooms - Grade 1-6 - 3	793	-	793		
General Classrooms - Grade 1-6 - 4	1,126	_	1,126	•	
General Classrooms - Grade 1-6 - 5	942	-	942	•	
General Classrooms - Grade 1-6 - 6	931	_	931	•	
General Classrooms - Grade 1-6 - 7	1,123	1	1,123		
General Classrooms - Grade 1-6 - 8	867	1	867		
General Classrooms - Grade 1-6 - 9	931	1	931		
General Classrooms - Grade 1-6 - 10	875	1	875		
General Classrooms - Grade 1-6 - 11	1,022	_	1,022	•	
General Classrooms - Grade 1-6 - 12	941	_	941	•	
General Classrooms - Grade 1-6 - 13	902	_	906		
General Classrooms - Grade 1-6 - 14	938	1	938		
LEVEL 2					
General Classrooms - Grade 1-6 - 15	1,099	l l	1,099		
Classrooms -	1,049	1	1,049		
Classrooms -	873	1	873		
General Classrooms - Grade 1-6 - 18	862	1	862		
Classrooms -	878	-	878		
	606	1	606		
General Classrooms - Grade 1-6 - 21	866	1	866	•	
Classrooms -	891	_	891		
General Classrooms - Grade 1-6 - 23	866	_	866	•	
Grade 1-6 -	882	-	882	•	
Classrooms - Grade 1-6 -	8/5	_	8/5		
- Grade 1-6 -	1,207	l	1,207		
General Classrooms - Grade 1-6 - 27	1,079	-	1,079		
			0 0,1		
Computer Lab	540	_	540	•	
Commons/extended learning area				•	
Toobor Donning Space				•	
reacher Planning Space					
Maker Space/Project Room					
Project Room Storage					
2000 1000 1000 1000 1000 1000 1000 1000					

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Grades 2-4 Option			
W. EDWARD BALMER SCHOOL	Exi	Existing Conditions	itions
ROOM TYPE	ROOM NFA <sup>1</sup>	#OF RMS	area totals
SPECIAL EDUCATION			3,896
(List rooms of different sizes separately)			
Self-Contained SPED (Intensive) - CR1	1,018	-	1,018
Self-Contained SPED - toilet (Girls)	108	_	108
OT/PT Room	587	-	587
OT/PT Storage	214	~	214
Toilet (Boys)	157	~	157
Self-Contained SPED CR2	581	_	581
SPED Storage	47	-	47
Toilet	30	_	30
Speech Room	228	~	228
SPED CR 3	265	~	597
Speech Therapy	241	-	241
Title I Office (3 teachers)			
Student Support Services Suite: ELL (1) /SPED (6)/			
Speech (2) (2-4)			
De-Escalation Room			0
(			
Resource Room	G	,	0
Small Group Koom / Keading	88	-	88
ART & MUSIC			943
Art Classroom - 25 seats			
Art Workroom w/ Storage & kiln			
Misia Classroom / Larga Grain Dm 1	07.4	7	0 0
	9/4	-	0/4
Music Plactice / Elisemble	G	7	0 8
Music Storage	80	-	80
HEALTH & PHYSICAL EDITICATION			4 184
Cymposium	3 704	,	3 704
Gvm Storeroom	351		351
Health Instructor's Office w/ Shower & Toilet	132	_	132
MEDIA CENTER	0	,	3,246
Media Center / Reading Room	2,430	_	2,430
Audio/Visual	386	-	386
Project Sm Group Km	041	_ ,	140
Library Storage	142	-	142
Office/Work Room	148	-	148
Teaching Area			
Green Screen Video Room			
Audio/ Edit Room			
Makei opace			
			•

		area totals	0															0					0				0			
	Total	# OF RMS																												
		ROOM NFA <sup>1</sup>																												
		area totals	6,925	2,000	130	1,000	0	0	0	0	0	0	200	086	125	1,050	1,440	2,575	1,000	061	1,200	977	6,300	6,000	150	061	2,965	1,570	120 75 75 120 800	0
PROPOSED	New	# OF RMS		2	_	_							-	τ-	_	3	12		-	-	← c	ກ		-	-	_		-		- 0
		ROOM NFA <sup>1</sup>		1,000	130	1,000							200	086	125	350	120		1,000	150	1,200	ری		6,000	150	061		1,570	120 75 120 800 200	80
	Existing to Remain/Renovated	area totals	0															0					0				0			
		# OF RMS																												
	Existinç	ROOM NFA <sup>1</sup>																												

MSBA Guidelines (refer to MSBA Educational Program & Space Standard Guidelines)

Comments

area totals

# OF RMS

ROOM NFA<sup>1</sup> 1600 SF for first 300 + 1 SF/student Add'l

20 SF/Occupant

228

228

610 60 250 300

> 60 250 100

**2,375** 405

405

100 150 175 175 125 120 250 300

100 1100 120 120 120 150 405

35

405

2 seatings - 15SF per seat

7,232 3,825 1,000 370 1,810

> 3,825 1,000 370 1,810

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Grades 2-4 Option				
W. EDWARD BALMER SCHOOL	Exi	Existing Conditions	itions	û
ROOM TYPE	ROOM NFA <sup>1</sup>	# OF RMS	area totals	ROG NF/
DINING & FOOD SERVICE			7,705	
Cafeteria / Dining	3,377	_	3,377	
Stage	965	-	962	
Chair / Table / Equipment Storage	287	-	287	
Kitchen	1,707	-	1,707	
Dishwashing	215	-	215	
Managers Office	92	-	92	
Dry/Cold Storage	546	-	546	
Locker/Toilet	96	-	96	
Storage	106	-	106	
Subtotal Kitchen	2,762			
Staff Lunch Room	314	-	314	
MEDICAL			698	
Medical Suite Toilet	23	1	23	
Nurses' Office / Waiting Room	105	1	105	
Examination Room / Resting	315	-	315	
Dental Exam Rm	82	-	82	
Office	98	1	98	
Storage	87	1	87	
ADMINISTRATION & GUIDANCE			2,560	
General Office / Waiting Room / <del>Toilet</del>	222	1	222	
Toilet	29	2	58	
Closet	28	1	28	
Closet	12	-	12	
Teachers' Mail and Time Room			0	
Duplicating Room			0	
Records Room			0	
Principal's Office w/ Conference Area	214	1	214	
Principal's Secretary / Waiting			0	
Assistant Principal's Office	208	_	208	
Supervisory / Spare Office			0	
Conference Room	236	_	236	
Guidance Office	332	_	332	
Planning Room	233	_	233	
Guidance Storeroom			0	
SPED Coord Office	168	1	168	
Teachers' Work Room (Level 2)	516	_	516	
†iico Octorio				
Adjustment Councilor				
Adjustment Counselor				
Academic Coaches Office				
Toom Obsit Office				
IT Office - Instructional Technologist				

Cook					PROPOSED	0			
# OF RMS	Existinç	g to Remain//	Renovated		New			Total	
3,825         1         3,825           1,000         1         3,000           1,000         1         1,000           1,000         1         1,810           1,810         0         0           0         0         0           0         0         0           227         1         227           405         1         60           250         1         2,376           405         1         0           100         3         300           100         1         0           100         1         100           100         1         100           100         1         100           100         1         100           120         1         120           120         0         0           120         0         0           150         0         0           150         0         0           150         0         0           150         0         0           150         0         0           150         0	ROOM NFA <sup>1</sup>	# OF RMS	area totals	ROOM NFA <sup>1</sup>	#OF RMS	area totals	ROOM NFA <sup>1</sup>	#OF RMS	area totals
3,826     1     3,826       1,000     1     1,000       1,100     1     1,000       1,810     1     0       1,810     0     0       0     0     0       227     1     2,376       405     1     2,376       406     1     0       100     3     300       100     0     0       100     1     100       150     1     100       150     1     100       150     1     120       150     0     0       150     0     0       150     0     0       150     0     0       150     0     0       150     0     0       150     0     0       150     0     0       150     0     0       150     1     150       150     0     0       150     0     0       150     0     0       150     1     1       150     1     1       150     0     0       150     0     0       150 </td <td></td> <td></td> <td>0</td> <td></td> <td></td> <td>7.232</td> <td></td> <td></td> <td>0</td>			0			7.232			0
1,000				3.825	_	3,825			
370         1         370           1,810         1         1,810           0         0         0           0         0         0           0         0         0           227         1         227           100         1         610           60         1         60           60         1         2,376           405         1         2,376           405         1         0           100         1         0           100         1         100           100         1         100           100         1         100           100         1         100           100         1         100           120         1         120           120         0         0           120         0         0           120         1         100           120         1         100           120         0         0           120         0         0           120         1         100           120         1         10				1,000	1	1,000			
1,810				370	1	370			
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227 1 227  60 60 1 60  250 1 250  100 3 300  100 1 100  110 1 110  120 0 0 0  125 0 1 250  120 0 0 0  250 1 250  120 0 0 0  250 1 120  120 0 0 0  250 1 120  150 0 0 0  250 1 120  150 0 0 0  250 1 120  150 1 150  150 1 150  150 1 150  150 1 150  150 1 150  150 1 150  150 0 0 0  150 1 150  150 1 150  150 1 150  150 1 150  150 0 0 0  150 1 150  150 1 150  150 1 150  150 1 150  150 1 150  150 1 150  150 1 150  150 1 150  150 1 150						0			
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227         1         227           60         61         610           60         1         60           60         1         60           250         1         260           250         1         260           100         0         0           100         0         0           120         1         120           120         1         120           120         0         0           150         0         0           150         0         0           150         0         0           120         0         0           150         0         0           150         0         0           150         1         150           150         1         150           150         1         150           150         1         150           150         1         150           150         1         150           150         1         150           150         1         150           150         1         150 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td>						0			
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227         1         227           60         61         610           60         1         260           100         3         300           100         3         300           405         1         405           100         0         0           100         1         100           120         1         120           120         1         120           120         0         0           120         0         0           120         0         0           120         0         0           120         0         0           120         0         0           120         0         0           120         0         0           120         0         0           120         1         150           150         1         150           150         1         150           120         1         150           120         1         150           120         1         150           120         1         150<						0			
60				227	,	227			
60         1         60           250         1         250           100         3         300           405         1         2375           405         1         405           100         0         0           110         1         100           120         1         120           120         0         0           120         0         0           150         0         0           150         0         0           150         0         0           150         0         0           150         1         150           150         1         150           150         1         150           150         1         150           150         1         150           150         1         150           150         1         150           150         1         150           150         1         150           150         1         150           150         1         150           150         1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
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100     3     300       405     1     405       405     1     405       100     0     0       100     1     100       150     1     150       120     0     0       120     0     0       250     1     250       150     0     0       150     0     0       120     0     0       120     0     0       120     0     0       120     0     0       120     1     120       120     1     150       120     1     150       150     1     150       150     1     150       150     1     150       150     1     150       150     1     150       150     1     150       150     1     150       150     1     150       150     1     150       150     1     150       150     1     1       150     1     1       150     1     1       150     1     1       150 <td></td> <td></td> <td></td> <td>067</td> <td>- 0</td> <td>007</td> <td></td> <td></td> <td></td>				067	- 0	007			
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405     1     405       405     1     405       100     0       100     1     100       150     1     150       120     1     125       120     0     0       250     1     250       150     0     0       250     1     250       150     0     0       35     0     0       405     0     0       150     1     150       150     1     150       150     1     150       120     1     150       120     1     150       120     1     125       120     1     125       120     1     125       120     0     0       120     1     125       120     0     0       120     0     0       120     0     0       120     0     0       120     0     0       120     0     0       120     0     0       120     0     0       120     0     0       120     0     <									
405     1     405       405     1     405       405     1     405       100     0     0       150     1     100       120     1     120       120     0     0       120     0     0       150     0     0       150     0     0       150     1     120       150     1     120       150     1     150       150     1     150       150     1     150       120     1     120       120     1     120       120     1     120       120     1     120       120     1     120       120     1     120       120     1     120       120     1     120       120     1     120       120     1     120       120     1     120       120     1     120       120     1     120       120     1     120       120     1     120       120     1     120       120     1     120									
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			0			2,375			0
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				120	0	0			
		_				_			

Grades 2-4 Option			
W. EDWARD BALMER SCHOOL	Exi	Existing Conditions	itions
ROOM TYPE	ROOM NFA <sup>1</sup>	# OF RMS	area totals
CUSTODIAL & MAINTENANCE			1,220
Custodian's Office	125	-	125
Custodian's Workshop	178	-	178
Custodian's Storage	89	-	89
Recycling Room / Trash			0
Receiving and General Supply	849	1	849
Storeroom			0
IT Office - Instructional Technologist			
Network / Telecom Room			0
ОТНЕК			1,003
Book/Supply Storage (Level 1)	498	_	498
Book/Supply Storage (Level 2)	505	-	202
Parents/ Community Room			0
			0
			0
Total Building Net Floor Area (NFA)			50,515
Proposed Student Capacity / Enrollment			
Total Building Gross Floor Area (GFA) <sup>2</sup>			71,871
Grossing factor (GFA/NFA)			1.42

		area totals	0									0				0			107110#	#DIV/0:
	Total	#OF RMS																		
		ROOM NFA <sup>1</sup>																		
		area totals	2,110	150	375	375	400	270	340	0	200	200	200			59 642		89,463	7 60	1.50
PROPOSED	New	# OF RMS		_	-	_	-	τ-	-	0	-		+	-						
		ROOM NFA <sup>1</sup>		150	375	375	400	270	340	120	200		500							
	Renovated	area totals	0									0				C				
	Existing to Remain/Renovated	# OF RMS																		
	Existing	ROOM NFA <sup>1</sup>																		

(refer	to MSBA Ec	MSBA G ducational Prog	MSBA Guidelines (refer to MSBA Educational Program & Space Standard Guidelines)
ROOM NFA <sup>1</sup>	# OF RMS	area totals	Comments
		2,110	
150	-	150	
375	-	375	
375	-	375	
400	-	400	
270	-	270	
340	_	340	
200	7	200	
		0	
		52,107	
		510	THEM I COME CENCOCOO
		79,305	
		1.52	

<sup>1</sup> Individual Room Net Floor Area (NFA)

Includes the net square footage measured from the inside face of the perimeter walls and includes all specific spaces assigned to a particular program area including such spaces as non-communal toilets and storage rooms.

<sup>2</sup> Total Building Gross Floor Area (GFA)

Includes the entire building gross square footage measured from the outside face of exterior walls

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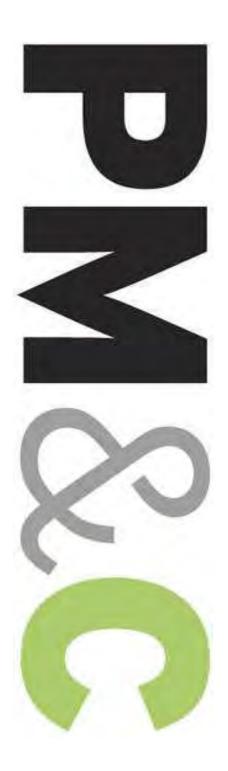
I hereby certify that all of the information provided in this "Proposed Space Summary" is true, complete and accurate and, except as agreed to in writing by the Massachusetts School Building Authority, in accordance with the guidelines, rules, regulations and policies of the Massachusetts School Building Authority to the best of my knowledge and belief. A true statement, made under the penalties of perjury.

Name of Architect Firm:	Name of Principal Architect:	Signature of Principal Architect:

Date:

Version

Elementary School Space Summary



### **PDP Estimate**

### Northbridge - Balmer ES Design Options

Northbridge, MA

Prepared for:

**Dore + Whittier** 

September 13, 2017



**Northbridge - Balmer ES** Design Options

Northbridge, MA

**PDP Estimate** 

13-Sep-17

### MAIN CONSTRUCTION COST SUMMARY

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION B1 - GRADE 2-4 (510 STUD	ENTS)			
RENOVATION TO BALMER ES		71,871	\$260.00	\$18,686,460
NEW ADDITION		11,292	\$340.00	\$3,839,280
HAZMAT REMOVALS				\$1,185,000
SITEWORK				\$4,803,386
SUB-TOTAL	Jan-20	83,163	\$342.87	\$28,514,126
ESCALATION	9.33%			\$2,660,368
DESIGN AND PRICING CONTINGENCY	10%			\$2,851,413
SUB-TOTAL WITH CONTINGENCY & ESCALATION	Jan-20	83,163	\$409.15	\$34,025,907
GENERAL CONDITIONS - 3 YRS				\$2,880,000
GENERAL REQUIREMENTS	4.00%			\$1,361,036
BONDS	1.00%			\$340,259
INSURANCE	1.75%			\$595,453
PERMIT				NIC
GMP CONTINGENCY	2%			\$680,518
CM FEE	3%			\$1,196,495
TOTAL OF CONSTRUCTION - OPTION B1	Jan-20	83,163	\$493.97	\$41,079,668



Design Options 13-Sep-17 Northbridge, MA

**PDP Estimate** 

### **OPTION B2 - GRADE 2-4 (510 STUDENTS)**

NEW SCHOOL		83,163	\$310.00	\$25,780,530
HAZMAT REMOVALS				\$1,185,000
DEMOLISH EXISTING BUILDING		71,871	\$6.00	\$431,226
SITEWORK				\$4,716,068
SUB-TOTAL	Jan-20	83,163	\$386.14	\$32,112,824
ESCALATION	9.33%			\$2,996,126
DESIGN AND PRICING CONTINGENCY	10%			\$3,211,282
SUB-TOTAL WITH CONTINGENCY & ESCALATION	Jan-20	83,163	\$460.78	\$38,320,232
GENERAL CONDITIONS - 2 YRS				\$1,920,000
GENERAL REQUIREMENTS	4.00%			\$1,532,809
BONDS	1.00%			\$383,202
INSURANCE	1.75%			\$670,604
PERMIT				NIC
GMP CONTINGENCY	2%			\$766,405
CM FEE	3%			\$1,307,798
TOTAL OF CONSTRUCTION - OPTION B2	Jan-20	83,163	\$539.92	\$44,901,050



Design Options 13-Sep-17 Northbridge, MA

**PDP Estimate** 

### **OPTION B3 - GRADE 2-4 (510 STUDENTS)**

NEW SCHOOL		83,163	\$310.00	\$25,780,530
HAZMAT REMOVALS				\$1,185,000
DEMOLISH EXISTING BUILDING		71,871	\$6.00	\$431,226
SITEWORK				\$4,229,462
SUB-TOTAL	Jan-20	83,163	\$380.29	\$31,626,218
ESCALATION	9.33%			\$2,950,726
DESIGN AND PRICING CONTINGENCY	10%			\$3,162,622
SUB-TOTAL WITH CONTINGENCY & ESCALATION	Jan-20	83,163	\$453.80	\$37,739,566
GENERAL CONDITIONS - 2 YRS				\$1,920,000
GENERAL REQUIREMENTS	4.00%			\$1,509,583
BONDS	1.00%			\$377,396
INSURANCE	1.75%			\$660,442
PERMIT				NIC
GMP CONTINGENCY	2%			\$754,791
CM FEE	3%			\$1,288,853
TOTAL OF CONSTRUCTION - OPTION B3	Jan-20	83,163	\$532.10	\$44,250,631



Design Options 13-Sep-17
Northbridge, MA

**PDP Estimate** 

### **OPTION C1 - GRADE PK-5 (1030 STUDENTS)**

RENOVATION TO BALMER ES		25,354	\$260.00	\$6,592,040
NEW ADDITIONS		147,491	\$320.00	\$47,197,120
HAZMAT REMOVALS				\$1,185,000
DEMOLISH EXISTING BUILDING		46,517	\$6.00	\$279,102
SITEWORK				\$4,378,665
SUB-TOTAL	Jan-20	172,845	\$345.00	\$59,631,927
ESCALATION	9.33%			\$5,563,659
DESIGN AND PRICING CONTINGENCY	10%			\$5,963,193
SUB-TOTAL WITH CONTINGENCY & ESCALATION	Jan-20	172,845	\$411.69	\$71,158,779
GENERAL CONDITIONS - 4 YRS				\$3,840,000
GENERAL REQUIREMENTS	4.00%			\$2,846,351
BONDS	1.00%			\$711,588
INSURANCE	1.75%			\$1,245,279
PERMIT				NIC
GMP CONTINGENCY	2%			\$1,423,176
CM FEE	3%			\$2,436,755
TOTAL OF CONSTRUCTION - OPTION C1	Jan-20	172,845	\$484.03	\$83,661,928



Design Options 13-Sep-17 Northbridge, MA

**PDP Estimate** 

### **OPTION C2 - GRADE PK-5 (1030 STUDENTS)**

RENOVATION TO BALMER ES		71,871	\$260.00	\$18,686,460
NEW ADDITIONS		100,974	\$310.00	\$31,301,940
HAZMAT REMOVALS				\$1,185,000
SITEWORK				\$5,070,742
SUB-TOTAL	Jan-20	172,845	\$325.40	\$56,244,142
ESCALATION	9.33%			\$5,247,578
DESIGN AND PRICING CONTINGENCY	10%			\$5,624,414
SUB-TOTAL WITH CONTINGENCY & ESCALATION	Jan-20	172,845	\$388.30	\$67,116,134
GENERAL CONDITIONS - 4 YRS				\$3,840,000
GENERAL REQUIREMENTS	4.00%			\$2,684,645
BONDS	1.00%			\$671,161
INSURANCE	1.75%			\$1,174,532
PERMIT				NIC
GMP CONTINGENCY	2%			\$1,342,323
CM FEE	3%			\$2,304,864
TOTAL OF CONSTRUCTION - OPTION C2	Jan-20	172,845	\$457.83	\$79,133,659



Design Options 13-Sep-17 Northbridge, MA

**PDP Estimate** 

### **OPTION C3 - GRADE PK-5 (1030 STUDENTS)**

NEW SCHOOL		172,845	\$300.00	\$51,853,500
DEMOLISH EXISTING BUILDING		71,871	\$6.00	\$431,226
HAZMAT REMOVALS				\$1,185,000
SITEWORK				\$4,979,056
SUB-TOTAL	Jan-20	172,845	\$338.16	\$58,448,782
ESCALATION	9.33%			\$5,453,271
DESIGN AND PRICING CONTINGENCY	10%			\$5,844,878
SUB-TOTAL WITH CONTINGENCY & ESCALATION	Jan-20	172,845	\$403.52	\$69,746,931
GENERAL CONDITIONS - 3 YRS				\$2,880,000
GENERAL REQUIREMENTS	4.00%			\$2,789,877
BONDS	1.00%			\$697,469
INSURANCE	1.75%			\$1,220,571
PERMIT				NIC
GMP CONTINGENCY	2%			\$1,394,939
CM FEE	3%			\$2,361,894
TOTAL OF CONSTRUCTION - OPTION C3	Jan-20	172,845	\$469.16	\$81,091,681



Design Options 13-Sep-17 Northbridge, MA

**PDP Estimate** 

### **OPTION C4 - GRADE PK-5 (1030 STUDENTS)**

NEW SCHOOL		172,845	\$330.00	\$57,038,850
DEMOLISH EXISTING BUILDING		71,871	\$6.00	\$431,226
HAZMAT REMOVALS				\$1,185,000
SITEWORK				\$5,025,747
SUB-TOTAL	Jan-20	172,845	\$368.43	\$63,680,823
ESCALATION	9.33%			\$5,941,421
DESIGN AND PRICING CONTINGENCY	10%			\$6,368,082
SUB-TOTAL WITH CONTINGENCY & ESCALATION	Jan-20	172,845	\$439.64	\$75,990,326
GENERAL CONDITIONS - 3 YRS				\$2,880,000
GENERAL REQUIREMENTS	4.00%			\$3,039,613
BONDS	1.00%			\$759,903
INSURANCE	1.75%			\$1,329,831
PERMIT				NIC
GMP CONTINGENCY	2%			\$1,519,807
CM FEE	3%			\$2,565,584
TOTAL OF CONSTRUCTION - OPTION C4	Jan-20	172,845	\$509.62	\$88,085,064



Design Options 13-Sep-17 Northbridge, MA

**PDP Estimate** 

### **OPTION C5 - GRADE PK-5 (1030 STUDENTS)**

NEW SCHOOL		172,845	\$300.00	\$51,853,500
DEMOLISH EXISTING BUILDING		71,871	\$6.00	\$431,226
HAZMAT REMOVALS				\$1,185,000
SITEWORK				\$4,567,734
SUB-TOTAL	Jan-20	172,845	\$335.78	\$58,037,460
ESCALATION	9.33%			\$5,414,895
DESIGN AND PRICING CONTINGENCY	10%			\$5,803,746
SUB-TOTAL WITH CONTINGENCY & ESCALATION	Jan-20	172,845	\$400.68	\$69,256,101
GENERAL CONDITIONS - 3 YRS				\$2,880,000
GENERAL REQUIREMENTS	4.00%			\$2,770,244
BONDS	1.00%			\$692,561
INSURANCE	1.75%			\$1,211,982
PERMIT				NIC
GMP CONTINGENCY	2%			\$1,385,122
CM FEE	3%			\$2,345,880
TOTAL OF CONSTRUCTION - OPTION C5	Jan-20	172,845	\$465.98	\$80,541,890



13-Sep-17

### **PDP Estimate**

This PDP cost estimate was produced from outline drawings produced by Dore + Whittier dated September 9, 2017. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

This estimate includes all direct construction costs, construction manager's overhead and profit and design contingency. Cost escalation assumes start dates indicated above.

We have assumed procurement will utilize a public bid under C.149a of the MGL with public bidding to pre-qualified Construction Managers and subcontractors, open specifications for materials and manufactures.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

### ITEMS NOT CONSIDERED IN THIS ESTIMATE

Construction contingency

Items not included in this estimate are:

Land acquisition, feasibility, and financing costs
All professional fees and insurance
Site or existing conditions surveys investigations costs, including to determine subsoil conditions
All Furnishings, Fixtures and Equipment
Items identified in the design as Not In Contract (NIC)
Items identified in the design as by others
Owner supplied and/or installed items as indicated in the estimate
Utility company back charges, including work required off-site
Work to City streets and sidewalks, (except as noted in this estimate)





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
SITEW	ORK OPTION B1	ı					

G	SITEWORK	]					
G10	SITE PREPARATION & DEMOLITION Site Demolitions and Relocations						
	Site construction fence/barricades allowance	6,000	lf	15.00	90,000		
	Miscellaneous demolition	30	acre	2,500.00	75,000		
	Site Earthwork						
	Cuts/Fills allowance	1	ls	200,000.00	200,000		
	Fine grading	59,267	sy	1.00	59,267		
	Silt fence/erosion control allowance	6,000	lf	11.00	66,000		
	<u>Hazardous Waste Remediation</u>						
	No work in this section						
	SUBTOTAL					\$490,267	
G20	SITE IMPROVEMENTS						
020	Roadways and Parking Lots	221,000			-		
	gravel base; 12" thick	8,185	cy	40.00	327,400		
	asphalt; 4" thick	24,556	sy	25.00	613,900		
	VGC	13,500	lf	38.00	513,000		
	Road markings	1	ls	7,500.00	7,500		
	Signage	1	ls	10,000.00	10,000		
	Pedestrian paving						
	Bituminous concrete paving						
	gravel base; 8" thick	571	cy	40.00	22,840		
	color concrete; 5" thick @ outdoor learning	13,000	sf	9.50	123,500		
	concrete; 5" thick	10,000	sf	7.00	70,000		
	Playground Playground equipment	11,000	sf ls	18.00 100,000.00	198,000 100,000		
	Fence @ playground	850	lf	35.00	29,750		
	Nature trail	10,600	sf	5.00	53,000		
	Miscellaneous site improvements	1	ls	100,000.00	100,000		
	<u>Landscaping/Fields</u>						
	gravel base; 12" thick	8,259	cy	35.00	289,065		
	Vail fields; grass	147,000	sf	1.50	220,500		
	Football fields; grass	76,000	sf	1.50	114,000		
	Wetland	43,400	sf	4.00	173,600		
	Rain garden	12,400	sf	6.00	74,400		
	Fence allowance	1,200	lf	35.00	42,000		
	Spread topsoil	3,333	cy	8.00	26,664		
	Seed	180,000	sf	0.25	45,000		
	Landscaping allowance	1	ls	75,000.00	75,000		
	SUBTOTAL			,	,	\$3,229,119	
	5651611E					00,220,110	
G30	CIVIL MECHANICAL UTILITIES						
	Water supply		le.	E0 000 00	FO 000		
	Water allowance Sanitary sewer	1	ls	50,000.00	50,000		
	Sanitary sewer Sanitary allowance	1	ls	20,000.00	20,000		
	Storm Sewer			20,000.00	20,000		
	Storm allowance	221,000	sf	4.00	884,000		
	Gas and Telecom service						
	E&B trench for new lines, pipe and install by utilities						
	New gas service	300	lf	22.00	NIC		
	New telecom service	300	lf	22.00			
	SUBTOTAL	<b>9</b>				\$954,000	
G40	Primary electric 2.4" conduits & conductors	100	lf	200.00	20,000		
	Primary electric 2-4" conduits & conductors Secondary electric 4-4" conduits & conductors	100 25	lf lf	200.00 400.00	20,000 10,000		
	Site lighting	25 1	ls	100,000.00	100,000		
	SUBTOTAL	-	-	-,	,	\$130,000	
						,	





### PDP Estimate

CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
SITEW	ORK OPTION B2	l					

G	SITEWORK						
G10	SITE PREPARATION & DEMOLITION						
	Site Demolitions and Relocations						
	Site construction fence/barricades allowance	6,000	lf	15.00	90,000		
	Miscellaneous demolition	30	acre	2,500.00	75,000		
	Site Earthwork						
	Cuts/Fills allowance	1	ls	200,000.00	200,000		
	Fine grading	60,656	sy	1.00	60,656		
	Silt fence/erosion control allowance Hazardous Waste Remediation	6,000	lf	11.00	66,000		
	No work in this section						
	SUBTOTAL					\$491,656	
G20	SITE IMPROVEMENTS						
	Roadways and Parking Lots	186,000			-		
	gravel base; 12" thick	6,889	cy	40.00	275,560		
	asphalt; 4" thick	20,667	sy	25.00	516,675		
	VGC	10,500	lf	38.00	399,000		
	Road markings	1	ls	7,500.00	7,500		
	Signage	1	ls	10,000.00	10,000		
	Pedestrian paving						
	Bituminous concrete paving gravel base; 8" thick	1 104	CV	40.00	44,160		
	· ·	1,104	cy	9.50			
	color concrete; 4" thick @ outdoor learning concrete; 4" thick	16,500 28,000	sf sf	7.00	156,750 196,000		
	Playground	11,000	sf	18.00	198,000		
	Playground equipment	1	ls	100,000.00	100,000		
	Fence @ playground	450	lf	35.00	15,750		
	Nature trail	10,600	sf	5.00	53,000		
	Miscellaneous site improvements	1	ls	100,000.00	100,000		
	Landscaping						
	gravel base; 12" thick	8,641	cy	35.00	302,435		
	Vail fields; grass	164,800	sf	1.50	247,200		
	Football fields; grass	68,500	sf	1.50	102,750		
	Wetland	51,000	sf	4.00	204,000		
	Rain garden	20,500	sf	6.00	123,000		
	Fence allowance	1,200	lf	35.00	42,000		
	Spread topsoil	3,704	cy	8.00	29,632		
	Seed	200,000	sf	0.25	50,000		
	Landscaping allowance	1	ls	75,000.00	75,000		
	SUBTOTAL					\$3,248,412	
G30	CIVIL MECHANICAL UTILITIES Water supply						
	Water allowance	1	ls	50,000.00	50,000		
	Sanitary sewer						
	Sanitary allowance	1	ls	30,000.00	30,000		
	Storm Sewer	.06		4.00	744.000		
	Storm allowance Gas and Telecom service	186,000	sf	4.00	744,000		
	E&B trench for new lines, pipe and install by utilities						
	New gas service	500	lf	22.00	11,000		
	New telecom service	500	lf	22.00	11,000		
	SUBTOTAL	-				\$846,000	
G40	ELECTRICAL UTILITIES		ıc	900.00	90,000		
	Primary electric 2-4" conduits & conductors Secondary electric 4-4" conduits & conductors	100	lf lf	200.00 400.00	20,000 10,000		
	•	25					
	Site lighting	1	ls	100,000.00	100,000		





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
SITEW	ORK OPTION B3	l					

$\boldsymbol{G}$	SITEWORK	]				
G10	SITE PREPARATION & DEMOLITION					
610	Site Demolitions and Relocations					
	Site construction fence/barricades allowance	6,000	lf	15.00	90,000	
	Miscellaneous demolition	30	acre	2,500.00	75,000	
	Site Earthwork					
	Cuts/Fills allowance	1	ls	200,000.00	200,000	
	Fine grading	54,249	sy	1.00	54,249	
	Silt fence/erosion control allowance	6,000	lf	11.00	66,000	
	Hazardous Waste Remediation					
	No work in this section					
	SUBTOTAL					\$485,249
G20	SITE IMPROVEMENTS Roadways and Parking Lots	160,000				
	gravel base; 12" thick		CV	40.00	237,040	
		5,926	cy			
	asphalt; 4" thick	17,778	sy	25.00	444,450	
	VGC	8,500	lf	38.00	323,000	
	Road markings	1	ls	7,500.00	7,500	
	Signage Pedestrian paving	1	ls	10,000.00	10,000	
	Bituminous concrete paving					
	gravel base; 8" thick	948	cy	40.00	37,920	
			sf	9.50	85,500	
	color concrete; 4" thick @ outdoor learning concrete; 4" thick	9,000 29,200	si sf	9.50 7.00	85,500 204,400	
	Playground	11,000	sf	18.00	198,000	
	Playground equipment	11,000	ls	100,000.00	100,000	
	Fence @ playground	250	lf	35.00	8,750	
	Nature trail	9,040	sf	5.00	45,200	
	Miscellaneous site improvements	1	ls	100,000.00	100,000	
	Landscaping					
	gravel base; 12" thick	8,315	cy	35.00	291,025	
	Vail fields; grass	160,000	sf	1.50	240,000	
	Football fields; grass	64,500	sf	1.50	96,750	
	Wetland	41,500	sf	4.00	166,000	
			sf		90,000	
	Rain garden	15,000		6.00		
	Fence allowance	1,200	lf	35.00	42,000	
	Spread topsoil	3,241	cy	8.00	25,928	
	Seed	175,000	sf	0.25	43,750	
	Landscaping allowance	1	ls	75,000.00	75,000	
	SUBTOTAL					\$2,872,213
<b>G30</b>	CIVIL MECHANICAL UTILITIES					
030	Water supply					
	Water allowance	1	ls	50,000.00	50,000	
	Sanitary sewer					
	Sanitary allowance	1	ls	30,000.00	30,000	
	Storm Sewer					
	Storm allowance	160,000	sf	4.00	640,000	
	Gas and Telecom service					
	E&B trench for new lines, pipe and install by utilities					
	New gas service	500	lf	22.00	11,000	
	New telecom service	500	lf	22.00	11,000	
	SUBTOTAL	=				\$742,000
G40	ELECTRICAL UTILITIES Primary electric 2-4" conduits & conductors	100	lf	200.00	20,000	
	Secondary electric 2-4 conduits & conductors Secondary electric 4-4" conduits & conductors	100 25	lf	400.00	10,000	
	Site lighting	25 1	ls	100,000.00	100,000	
		•		100,000.00	100,000	\$130,000
	SUBTOTAL					





### PDP Estimate

CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
SITEW	ORK OPTION C1	1					

G	SITEWORK						
G10	SITE PREPARATION & DEMOLITION						
	Site Demolitions and Relocations						
	Site construction fence/barricades allowance	6,000	lf	15.00	90,000		
	Miscellaneous demolition	30	acre	2,500.00	75,000		
	Site Earthwork		1-	900 000 00	900 000		
	Cuts/Fills allowance	60.909	ls	200,000.00	200,000		
	Fine grading Silt fence/erosion control allowance	69,838 6,000	sy If	1.00 11.00	69,838 66,000		
	Hazardous Waste Remediation	0,000	11	11.00	00,000		
	No work in this section						
	SUBTOTAL					\$500,838	
G20	SITE IMPROVEMENTS						
	Roadways and Parking Lots	166,000			-		
	gravel base; 12" thick	6,148	cy	40.00	245,920		
	asphalt; 4" thick	18,444	sy	25.00	461,100		
	VGC	10,500	lf	38.00	399,000		
	Road markings	1	ls	7,500.00	7,500		
	Signage	1	ls	10,000.00	10,000		
	Pedestrian paving						
	Bituminous concrete paving	400		40.00	16 990		
	gravel base; 8" thick	422	cy	40.00	16,880		
	color concrete; 4" thick @ outdoor learning concrete; 4" thick	7,000 10,000	sf sf	9.50 7.00	66,500 70,000		
	Playground	16,000	sf	18.00	288,000		
	Playground equipment	1	ls	120,000.00	120,000		
	Fence @ playground	450	lf	35.00	15,750		
	Nature trail	9,040	sf	5.00	45,200		
	Miscellaneous site improvements	1	ls	200,000.00	200,000		
	Landscaping						
	gravel base; 12" thick	6,667	cy	35.00	233,345		
	Vail fields; grass	180,000	sf	1.50	270,000		
	Wetland	41,500	sf	4.00	166,000		
	Rain garden	15,000	sf	6.00	90,000		
	Fence allowance	1,200	lf	35.00	42,000		
	Spread topsoil	3,704	cy	8.00	29,632		
	Seed	200,000	sf	0.25	50,000		
	Landscaping allowance	1	ls	100,000.00	100,000		
	SUBTOTAL					\$2,926,827	
G30	CIVIL MECHANICAL UTILITIES Water supply						
	Water allowance	1	ls	100,000.00	100,000		
	Sanitary sewer						
	Sanitary allowance	1	ls	5,000.00	5,000		
	Storm Sewer		- C	4.00	004.000		
	Storm allowance Gas and Telecom service	166,000	sf	4.00	664,000		
	E&B trench for new lines, pipe and install by utilities						
	New gas service	500	lf	22.00	11,000		
	New telecom service	500	lf	22.00	11,000		
	SUBTOTAL					\$791,000	
G40	ELECTRICAL UTILITIES		10	900.00	90,000		
	Primary electric 2-4" conduits & conductors Secondary electric 4-4" conduits & conductors	100	lf lf	200.00 400.00	20,000 10,000		
	Site lighting	25 1	ls	130,000.00	130,000		
	SUBTOTAL		13	100,000.00	100,000	\$160,000	
						*	





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
SITEW	ORK OPTION C2	l					

G	SITEWORK	J				
G10	SITE PREPARATION & DEMOLITION					
	Site Demolitions and Relocations	(	1¢	15.00	00.000	
	Site construction fence/barricades allowance	6,000	lf	15.00	90,000	
	Miscellaneous demolition Site Earthwork	30	acre	5,000.00	150,000	
	Cuts/Fills allowance	1	ls	200,000.00	200,000	
	Fine grading	57,304	sy	1.00	57,304	
	Silt fence/erosion control allowance	6,000	lf	11.00	66,000	
	Hazardous Waste Remediation	-,				
	No work in this section					
	SUBTOTAL					\$563,304
G20	SITE IMPROVEMENTS					
	Roadways and Parking Lots	200,000		40.00	-	
	gravel base; 12" thick	7,407	cy	40.00	296,280	
	asphalt; 4" thick	22,222	sy	25.00	555,550	
	VGC	12,600	lf	38.00	478,800	
	Road markings	1	ls	7,500.00 10,000.00	7,500	
	Signage Pedestrian paving	1	ls	10,000.00	10,000	
	Bituminous concrete paving					
	gravel base; 8" thick	948	cy	40.00	37,920	
	color concrete; 4" thick @ outdoor learning	9,000	sf	9.50	85,500	
	concrete; 4" thick	29,200	sf	7.00	204,400	
	Playground	16,000	sf	18.00	288,000	
	Playground equipment	1	ls	120,000.00	120,000	
	Fence @ playground	800	lf	35.00	28,000	
	Nature trail	9,040	sf	5.00	45,200	
	Miscellaneous site improvements	1	ls	200,000.00	200,000	
	Landscaping					
	gravel base; 12" thick	8,074	cy	35.00	282,590	
	Vail fields; grass	144,000	sf	1.50	216,000	
	Football fields; grass	74,000	sf	1.50	111,000	
	Wetland	40,000	sf	4.00	160,000	
	Rain garden	10,500	sf	6.00	63,000	
	Fence allowance	1,200	lf	35.00	42,000	
	Spread topsoil	3,056	cy	8.00	24,448	
	Seed	165,000	sf	0.25	41,250	
	Landscaping allowance	1	ls	100,000.00	100,000	
	SUBTOTAL					\$3,397,438
0	OHAL MEGHANICAL VIIII VIIII					
G30	CIVIL MECHANICAL UTILITIES Water supply					
	Water allowance	1	ls	100,000.00	100,000	
	Sanitary sewer	•	-	,	,	
	Sanitary allowance	1	ls	50,000.00	50,000	
	Storm Sewer					
	Storm allowance	200,000	sf	4.00	800,000	
	Gas and Telecom service  Es P transh for new lines pine and install by utilities					
	E&B trench for new lines, pipe and install by utilities					
	New gas service	500	lf	22.00	NIC	
	New telecom service	500	lf	22.00	NIC	
	SUBTOTAL					\$950,000
<b>a</b> .	EVECTORICAL LINEY PRINCE					
G40	ELECTRICAL UTILITIES Primary electric 2-4" conduits & conductors	100	lf	200.00	20,000	
•	•		lf	400.00	10,000	
•	Secondary electric 4-4" conduits & conductors	25	11	400.00		
•	Secondary electric 4-4" conduits & conductors Site lighting	25 1	ls	130,000.00	130,000	





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
SITEW	ORK OPTION C3	l					

G	SITEWORK	]					
G10	SITE PREPARATION & DEMOLITION Site Demolitions and Relocations						
	Site construction fence/barricades allowance	6,000	lf	15.00	90,000		
	Miscellaneous demolition	30	acre	2,500.00	75,000		
	Site Earthwork	· ·					
	Cuts/Fills allowance	1	ls	200,000.00	200,000		
	Fine grading	59,116	sy	1.00	59,116		
	Silt fence/erosion control allowance	6,000	lf	11.00	66,000		
	Hazardous Waste Remediation						
	No work in this section						
	SUBTOTAL					\$490,116	
G20	SITE IMPROVEMENTS						
	Roadways and Parking Lots	201,500			-		
	gravel base; 12" thick	7,463	cy	40.00	298,520		
	asphalt; 4" thick	22,389	sy	25.00	559,725		
	VGC	10,500	lf	38.00	399,000		
	Road markings	1	ls	7,500.00	7,500		
	Signage	1	ls	10,000.00	10,000		
	Pedestrian paving						
	Bituminous concrete paving				_		
	gravel base; 8" thick	583	cy	40.00	23,320		
	color concrete; 4" thick @ outdoor learning	3,500	sf	9.50	33,250		
	concrete; 4" thick	20,000	sf	7.00	140,000		
	Playground	16,000	sf	18.00	288,000		
	Playground equipment	1	ls	120,000.00	120,000		
	Fence @ playground	820	lf	35.00	28,700		
	Nature trail Miscellaneous site improvements	9,040 1	sf ls	5.00 200,000.00	45,200 200,000		
	-	1	15	200,000.00	200,000		
	Landscaping	0		07.00	205 025		
	gravel base; 12" thick	8,741	cy	35.00	305,935		
	Vail fields; grass	144,000	sf	1.50	216,000		
	Football fields; grass	92,000	sf	1.50	138,000		
	Wetland	40,000	sf	4.00	160,000		
	Rain garden	22,000	sf	6.00	132,000		
	Fence allowance	1,200	lf	35.00	42,000		
	Spread topsoil	4,130	cy	8.00	33,040		
	Seed	223,000	sf	0.25	55,750		
	Landscaping allowance	1	ls	100,000.00	100,000		
	SUBTOTAL					\$3,335,940	
	<del></del>					,,10	
<b>G30</b>	CIVIL MECHANICAL UTILITIES						
	Water supply						
	Water allowance	1	ls	100,000.00	100,000		
	Sanitary sewer		1.	50.000.00	FC 000		
	Sanitary allowance	1	ls	50,000.00	50,000		
	Storm Sewer Storm allowance	201,500	sf	4.00	806,000		
	Gas and Telecom service	201,500	31	4.00	555,000		
	E&B trench for new lines, pipe and install by utilities						
	• • • • • • • • • • • • • • • • • • • •						
	New gas service	500	lf	22.00	11,000		
	New telecom service	500	lf	22.00	11,000		
	SUBTOTAL					\$978,000	
Can	ELECTRICAL LITH ITTES						
G40	ELECTRICAL UTILITIES Primary electric 2-4" conduits & conductors	100	lf	350.00	35,000		
	Secondary electric 4-4" conduits & conductors	25	lf	400.00	10,000		
	Site lighting	1	ls	130,000.00	130,000		
	SUBTOTAL					\$175,000	





CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
SITEW	ORK OPTION C4	l					

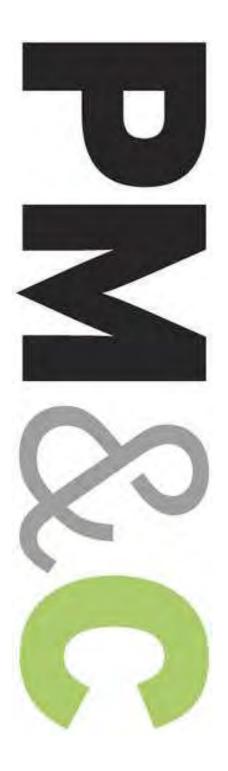
G	SITEWORK						
G10	SITE PREPARATION & DEMOLITION Site Demolitions and Relocations						
	Site construction fence/barricades allowance	6,000	lf	15.00	90,000		
	Miscellaneous demolition	30	acre	5,000.00	150,000		
	Site Earthwork	0 -		.,	,		
	Cuts/Fills allowance	1	ls	350,000.00	350,000		
	Fine grading	53,282	sy	1.00	53,282		
	Silt fence/erosion control allowance	6,000	lf	11.00	66,000		
	<u>Hazardous Waste Remediation</u>						
	No work in this section						
	SUBTOTAL					\$709,282	
G20	SITE IMPROVEMENTS						
020	Roadways and Parking Lots	191,000			-		
	gravel base; 12" thick	7,074	cy	40.00	282,960		
	asphalt; 4" thick	21,222	sy	25.00	530,550		
	VGC	10,500	lf	38.00	399,000		
	Road markings	1	ls	7,500.00	7,500		
	Signage	1	ls	10,000.00	10,000		
	Pedestrian paving						
	Bituminous concrete paving						
	gravel base; 8" thick	1,166	cy	40.00	46,640		
	color concrete; 4" thick @ outdoor learning	14,000	sf	9.50	133,000		
	concrete; 4" thick	33,000	sf	7.00	231,000		
	Playground	16,000	sf	18.00	288,000		
	Playground equipment	1	ls	120,000.00	120,000		
	Fence @ playground	750	lf - C	35.00	26,250		
	Nature trail Miscellaneous site improvements	9,040 1	sf ls	5.00 200,000.00	45,200 200,000		
	Landscaping		15	200,000.00	200,000		
	gravel base; 12" thick	6,389	CV	35.00	223,615		
	Vail fields; grass	144,000	cy sf	1.50	216,000		
	· ·		sf				
	Football fields; grass	28,500		1.50	42,750		
	Wetland	40,000	sf	4.00	160,000		
	Rain garden	20,000	sf	6.00	120,000		
	Fence allowance	1,200	lf	35.00	42,000		
	Spread topsoil	4,000	cy	8.00	32,000		
	Seed	216,000	sf	0.25	54,000		
	Landscaping allowance	1	ls	10,000.00	10,000		
	SUBTOTAL					\$3,220,465	
G3o	CIVIL MECHANICAL UTILITIES						
0-	Water supply						
	Water allowance	1	ls	100,000.00	100,000		
	Sanitary sewer						
	Sanitary allowance	1	ls	50,000.00	50,000		
	Storm Sewer Storm allowance	101 000	af.	4.00	784 000		
	Storm allowance Gas and Telecom service	191,000	sf	4.00	764,000		
	E&B trench for new lines, pipe and install by utilities						
	• • • • • • • • • • • • • • • • • • • •		10	22			
	New gas service	500	lf	22.00	11,000		
	New telecom service	500	lf	22.00	11,000	****	
	SUBTOTAL					\$936,000	
G40	ELECTRICAL UTILITIES						
-	Primary electric 2-4" conduits & conductors	100	lf	200.00	20,000		
	Secondary electric 4-4" conduits & conductors	25	lf	400.00	10,000		
	Site lighting	1	ls	130,000.00	130,000	\$160,000	
	SUBTOTAL						





CSI				UNIT	EST'D	SUB	TOTAL				
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST				
SITEW	SITEWORK OPTION C5										

SITE PREPARATION & DEMOLITION Site Demolitions and Relocations Site construction fence/barricades allowance Miscellaneous demolition Site Earthwork Cuts/Fills allowance Fine grading Silt fence/erosion control allowance Hazardous Waste Remediation No work in this section SUBTOTAL SITE IMPROVEMENTS Roadways and Parking Lots	6,000 30 1 70,421 6,000	lf acre ls sy lf	15.00 5,000.00 200,000.00 1.00 11.00	90,000 150,000 200,000 70,421	
Site Demolitions and Relocations Site construction fence/barricades allowance Miscellaneous demolition Site Earthwork Cuts/Fills allowance Fine grading Silt fence/erosion control allowance Hazardous Waste Remediation No work in this section SUBTOTAL SITE IMPROVEMENTS	30 1 70,421	acre ls sy	5,000.00 200,000.00 1.00	150,000 200,000	
Miscellaneous demolition  Site Earthwork Cuts/Fills allowance Fine grading Silt fence/erosion control allowance Hazardous Waste Remediation No work in this section SUBTOTAL SITE IMPROVEMENTS	30 1 70,421	acre ls sy	5,000.00 200,000.00 1.00	150,000 200,000	
Site Earthwork Cuts/Fills allowance Fine grading Silt fence/erosion control allowance Hazardous Waste Remediation No work in this section SUBTOTAL SITE IMPROVEMENTS	1 70,421	ls sy	200,000.00	200,000	
Cuts/Fills allowance Fine grading Silt fence/erosion control allowance Hazardous Waste Remediation No work in this section SUBTOTAL SITE IMPROVEMENTS	70,421	sy	1.00		
Fine grading Silt fence/erosion control allowance Hazardous Waste Remediation No work in this section SUBTOTAL SITE IMPROVEMENTS	70,421	sy	1.00		
Silt fence/erosion control allowance Hazardous Waste Remediation No work in this section SUBTOTAL SITE IMPROVEMENTS				70,421	
Hazardous Waste Remediation  No work in this section  SUBTOTAL  SITE IMPROVEMENTS	0,000	п	11.00	66,000	
No work in this section SUBTOTAL SITE IMPROVEMENTS				00,000	
SUBTOTAL SITE IMPROVEMENTS					
SITE IMPROVEMENTS					\$576,421
					70.0,
Roadways and Parking Lots					
	158,000			-	
gravel base; 12" thick	5,852	cy	40.00	234,080	
asphalt; 4" thick	17,556	sy	25.00	438,900	
VGC	8,600	lf	38.00	326,800	
Road markings	1	ls	7,500.00	7,500	
	1	ls	10,000.00	10,000	
	010	CV	40.00	36 A80	
	-				
_					
• •				120,000	
Fence @ playground	950	lf	35.00	33,250	
Nature trail	9,040	sf	5.00	45,200	
Miscellaneous site improvements	1	ls	200,000.00	200,000	
Landscaping					
gravel base; 12" thick	6,852	cy	35.00	239,820	
Vail fields; grass	144,000	sf	1.50	216,000	
Football fields; grass	41,000	sf	1.50	61,500	
Wetland	40,000	sf	4.00	160,000	
Rain garden	20,000	sf	6.00	120,000	
Fence allowance	1,200	lf	35.00	42,000	
Spread topsoil	3,426	cy	8.00	27,408	
Seed	185,000	sf	0.25	46,250	
Landscaping allowance	1	ls	100,000.00	100,000	
SUBTOTAL					\$3,027,313
CIVIL MECHANICAL UTILITIES					
		le	100 000 00	100 000	
	1	13	100,000.00	100,000	
Sanitary allowance	1	ls	50,000.00	50,000	
Storm Sewer					
Storm allowance	158,000	sf	4.00	632,000	
Gas and Telecom service					
೬&ʁ trench for new lines, pipe and install by utilities					
New gas service	500	lf	22.00	11,000	
New telecom service	500	lf	22.00	11,000	
SUBTOTAL					\$804,000
	100	lf	200.00	20 000	
•					
Site lighting	-5 1	ls	130,000.00	130,000	
SUBTOTAL				•	\$160,000
	Signage Pedestrian paving Bituminous concrete paving gravel base; 8" thick color concrete; 4" thick @ outdoor learning concrete; 4" thick Playground Playground equipment Fence @ playground Nature trail Miscellaneous site improvements Landscaping gravel base; 12" thick Vail fields; grass Football fields; grass Wetland Rain garden Fence allowance Spread topsoil Seed Landscaping allowance SUBTOTAL  CIVIL MECHANICAL UTILITIES Water supply Water allowance Storm Sewer Storm allowance Eas and Telecom service E&B trench for new lines, pipe and install by utilities New gas service New telecom service SUBTOTAL  ELECTRICAL UTILITIES Primary electric 2-4" conduits & conductors Secondary electric 4-4" conduits & conductors Site lighting	Signage Pedestrian paving Bituminous concrete paving gravel base; 8" thick 912 color concrete; 4" thick @ outdoor learning 6,750 concrete; 4" thick 912 years of 16,000 Playground equipment 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Signage	Signage	1



### **PDP Estimate**

### **Northbridge ES CIP Pricing**

Northbridge, MA

Prepared for:

**Dore + Whittier** 

September 13, 2017



**Northbridge ES**CIP Pricing Northbridge, MA

13-Sep-17

**PDP Estimate** 

### MAIN CONSTRUCTION COST SUMMARY

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
CIP PRICING				
NORTHBRIDGE ES CIP UPGRADES		56,560	\$196.52	\$11,115,238
HAZMAT REMOVALS				\$970,000
SITEWORK				\$365,306
SUB-TOTAL	Jan-20	56,560	\$220.13	\$12,450,544
ESCALATION				\$1,507,792
DESIGN AND PRICING CONTINGENCY	15%			\$1,867,582
SUB-TOTAL WITH CONTINGENCY & ESCALATION	Jan-20	56,560	\$279.81	\$15,825,918
GENERAL CONDITIONS GENERAL REQUIREMENTS BONDS INSURANCE PERMIT				Included in Rates Included in Rates Included in Rates Included in Rates NIC
GMP CONTINGENCY CM FEE				Included in Rates Included in Rates
TOTAL OF CONSTRUCTION - NORTHBRIDGE CIP	Jan-20	56,560	\$279.81	\$15,825,918



**Northbridge ES**CIP Pricing
Northbridge, MA

13-Sep-17

### **PDP Estimate**

This PDP cost estimate was produced from outline drawings produced by Dore + Whittier dated September 9, 2017. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

This estimate includes all direct construction costs, construction manager's overhead and profit and design contingency. Cost escalation assumes start dates indicated above.

We have assumed procurement will utilize a public bid under C.149a of the MGL with public bidding to pre-qualified Construction Managers and subcontractors, open specifications for materials and manufactures.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

### ITEMS NOT CONSIDERED IN THIS ESTIMATE

Items not included in this estimate are:

Land acquisition, feasibility, and financing costs
All professional fees and insurance
Site or existing conditions surveys investigations costs, including to determine subsoil conditions
All Furnishings, Fixtures and Equipment
Items identified in the design as Not In Contract (NIC)
Items identified in the design as by others
Owner supplied and/or installed items as indicated in the estimate
Utility company back charges, including work required off-site
Work to City streets and sidewalks, (except as noted in this estimate)
Construction contingency

		NORTHBRIDGE ELEM SCHOOL	Quantity	Cost of Repair / Replacement (XX/2017 \$)	Designer / Pricing Contingency (15%)
		56,560 GSF			
1	Site & 1.01	Civil  Aerate and slice seed lawn areas, and treat for weed growth. Provide	15 000 of	\$14,490	\$2,174
	1.02	regular maintenance.  Expand ornamental plantings to other parts of campus, provide regular	15,000 sf 1 ls	\$11,500	\$1,725
	1.03	maintenance. (allowance)		611 500	Ć4 725
	1.04	There are a number of large shade trees on site-Elm, Oak, Maple and Beech were observed. At least one of these trees was observed to be in declining condition, but most appear to be in good health. Have trees evaluated by a certified arborist and follow the recommendations provided. Likely maintenance will include edging and mulching, and airspading at base of tree, pruning of dead and dying limbs, and fertilization as needed.  There is a galvanized chain link fencing around the school property. There	1 ls	\$11,500 \$29,900	\$1,725
		were instances of rusting fabric, bent rails, and missing hardware components (10%). Replace all missing or broken fence components to match existing galvanized construction. Consider cost for replacing all fencing with black vinyl coated for greater longevity (4,328 LF).	400 LF		
	1.05	Furnish and install more trash and recycling receptacles of suitable quality for exterior use and of a uniform style and performance standards.	5 ea	\$4,600	\$690
	1.06	Remove old benches. Furnish and install new benches (6) and picnic tables (2).	6 ea	\$17,250	\$2,588
	1.07	Provide more high quality bicycle racks to encourage student to bike to school and sports. Place bicycle racks on level, undamaged concrete pads for safety and accessibility. Provide bike racks at appropriate areas.	3 ea	\$5,175	\$776
	1.08	Perform a playground safety inspection by a certified CPSI. Refurbish and repaint all properly functioning equipment displaying visual wear.	1 ls	\$5,750	\$863
	1.09	(allowance)  Provide regular maintenance of wood chip surfacing at playground. Rake chips to avoid bare areas and prevent excessive mounding. Consider replacing wood chips with poured in place rubberized safety surfacing for increased safety and visual appeal, and reduced maintenance.	4,000 sf	\$92,000	\$13,800
	1.10	Provide 1 additional swingset just north of playground to allow more and older children to use them simultaneously. Provide adequate safety surfacing in fall zone surrounding swingset (which may require reducing some pavement).	1 ea	\$17,250	\$2,588
	1.11	Provide a more painted games and graphics with for varying ages and levels of skill, including four square, hopscotch, maps, and other games or graphics.	8,500 sf	\$4,600	\$690
	1.12	Repair and repave all vehicular bituminous concrete surfaces. Repaint and restripe traffic markings.	13,000 sf	\$67,899	\$10,185
	1.13	Repair and replace all failing drainage structures. Notably, 2 locations to the southeast and southwest of school. Look to connect them to storm sewer if possible.	See below		
	1.14	Repair and replace all failing drainage structures. Notably, 2 locations to the southeast (45 lf to Cross Street) and southwest (240 lf to Cross street) of school. Look to connect them to storm sewer if possible.	285 If	\$40,998	\$6,150
	1.15	Repair or replace all damaged concrete sidewalks. Provide accessible routes where necessary.	3,500 sf	\$39,721	\$5,958
	1.16	Repair or replace all damaged bituminous concrete sidewalks. Provide accessible routes where necessary.	500 sf	\$2,673	\$401
	1.17				
	1.18				
	1.19				
		TOTAL		\$365,306	\$54,798
2		ural Elements			
	2.01	Provide new connections for all unreinforced masonry walls.	1 ls	\$115,000	\$17,250
	2.02				
		TOTAL		\$115,000	\$17,250
3	Exteri	or Architectural Elements			
	3.01	1983 wing - Undertake a concrete restoration program at all unit vent louvers where cracking exists. Remove all loose and unstable concrete material, and install new concrete repair mortar or patching cement. Consider applying an elastomeric coating or water repellant sealer to all exposed concrete to prevent further damage due to exposure to the elements. approx 10 locations	10 ea	\$15,525	\$2,329

	NORTHBRIDGE ELEM SCHOOL	Quantity	Cost of Repair / Replacement (XX/2017 \$)	Designer / Pricing Contingency (15%)
	56,560 GSF			
3.02	Either as part of the concrete repairs, or as a separate project, clean the concrete surface with a masonry cleaning product. Consider including application of an elastomeric coating or a water repellent sealer. Approx 200 LF Qty: 600 SF.  There are a few cracked bricks, most notably a section at the NW corner of	600 sf	\$10,005 \$5,175	\$1,501
	the '83 wing where brick are displaced from the corner. Directly above that issue, there is a vertical crack at the corner indicative of stress due to temperature expansion of the large field of west-facing brick with no expansion/relief joints Remove and repair damaged brick; tooth-in areas of repair. Repoint or repair crack above displaced brick. Assume 30 SF.	30 sf	<b>V</b> 3,113	<i>\$776</i>
3.04	Several precast concrete sills are cracked, which will allow water to penetrate and cause further spalling and breakup of the concrete if left untreated Remove loose and spalling material, clean crack to remove dust and debris, prep exposed concrete per manufacturer's instructions, and seal with elastomeric concrete crack repair product. Consider coating entire sill to match foundation, using a similar finish material. Approx 20 window sills	80 lf	\$6,900	\$1,035
3.05	Undertake a building-wide masonry repointing program to identify and repoint all deteriorated joints. Assume 10,000 SF.	1 ls	\$402,500	\$60,375
3.06	The "garage" attached to the original building is in poor condition. At the base, repaint the CMU with an elastomeric paint. Install a downspout to control the gutter discharge to grade and direct the water away so as to limit splashing.	1 ls	\$1,863	\$279
3.07	Alternatively, remove the existing garage in its entirety and replace with new construction with brick veneer to match the adjacent school building.	85 sf	\$23,949	\$3,592
3.08	The soffit above the overhead door is rotted and is missing a section adjacent to the original building, suggesting a leak at the roof or roof edge. Inspect the roof and gutter mounting detail to verify if any leaks are present, and make repairs as necessary.	85 sf	\$5,376	\$806
3.09	At modular classrooms, Remove entire section of T-111 siding board that is rotten and replace with new siding; paint to match existing. Reinstall loose trim, and replace missing, sealing all joints between trim and siding with a durable exterior caulking. (506 LF, approx 10' high)	5,060 sf	\$180,389	\$27,058
3.10	At corner of Modular building, Replace the downspout to extend it to grade, with a neck angled to direct water away from the skirting.  At 1983 building, Remove old caulking and completely clean out the	15 lf	\$690 \$345	\$104
3.12	control joint. Install new caulking with a bond breaker or backer rod within the joint.	12 lf		
	1983 building - Replace all aluminum window and curtainwall systems with new thermally broken, high-performance window and curtainwall systems with insulated Low-E glazing.	790 sf	\$85,320	\$12,798
3.13	<ul> <li>1983 building - If not replaced with new windows, perform maintenance on screens by installing new fabric and splines.</li> <li>1952 building - Replace all wood window with new thermally broken, high-</li> </ul>	790 sf	\$22,713	\$3,407
5.24	performance window and curtainwall systems with insulated Low-E glazing.	2,200 sf	\$273,240	\$40,986
3.15	Undertake a building-wide maintenance program for all exterior caulking; replace all sealants that have been in place for 5 or more years, or which show failure. (Allowance)	1 ls	\$115,000	\$17,250
3.16	Replace 1952 aluminum storefront door and frame with a new, thermally broken door and frame, with insulating safety glass in transom and vision panels	1 loc	\$11,190	\$1,679
3.17	Replace all exterior hollow metal doors and frames with new thermally broken frames and insulated door panels, with insulating safety glass in transom and vision panels. (9 locations - 8 double, 1 single)	9 ea	\$32,890	\$4,934
3.18	Replace overhead door with new steel or aluminum door assembly with corrosion resistant construction and finish.	1 loc	\$6,969	\$1,045
3.19	Replace vertical blade louvers with prefinished horizontal blade louvers that are resistant to wind-driven rain.	20 ea	\$16,100	\$2,415
3.20	Undertake a building-wide maintenance program for all exterior caulking, replace all sealants that have been in place for 5 or more years, or which show failure. (Allowance)	See 3.15		
3.21	Replace glass block with a new high performance thermally broken window system with insulated glazing.	144 sf	\$20,700	\$3,105
3.22	Replace the 1952 roof with a new roofing system, with new insulation board meeting or exceeding Stretch Energy Code requirements and meeting the intent of the Town's Green Community initiatives. A recommended R value for insulation is R-50.	5,740 sf	\$150,547	\$22,582
3.23	Replace the 1983 roof with a new roofing system, with new insulation board meeting or exceeding Stretch Energy Code requirements and meeting the intent of the Town's Green Community initiatives. A recommended R value for insulation is R-50. At the time of the replacement, verify the integrity of underlying roof decking, which appears to be wood fiber or gypsum based. Increase slope of tapered insulation to 1/4" per foot or more to resolve ponding issues. With reroofing, replace existing skylight units with energy efficient high performance units.	31,257 sf	\$873,504	\$131,026

		NORTHBRIDGE ELEM SCHOOL	Quantity	Cost of Repair / Replacement (XX/2017 \$)	Designer / Pricing Contingency (15%)
		56,560 GSF			
	3.24	At the time of roof replacement, consider installation of new through-wall flashing at the high walls, to extend to the face of the CMU backup wall. Include removal of brick in sections, shoring of the brick above, and reinstallation of brick after placement of the new flashing.	140 lf	\$40,250	\$6,038
		TOTAL		\$2,301,140	\$345,172
4		r Architectural Elements			
	4.01	Replace flooring throughout, abating any asbestos-containing flooring; especially broken and chipped tile. A low maintenance product such as sheet linoleum is recommended in high traffic areas and classrooms; mosaic tile in toilet rooms. Replace missing sections of base. As part of any major flooring replacement, consider replacing all damaged base throughout both buildings.	51,200 sf	\$869,716	\$130,457
	4.02	At gym, Install a sheet or poured resilient athletic sports floor system. Prior to covering slab, determine slab humidity and moisture emissivity levels. Remediate any moisture vapor drive issues by applying a moisture remediation topping compound to the slab prior to installation of the sports floor.	3300 sf	\$68,310	\$10,247
	4.03	In rooms with floor drains, if flooring replacement is warranted, install new flooring sloped to provide positive drainage to the floor drains.	See 4.01		\$0
	4.04	In areas with concrete floors, Repair and fill significant cracks in floors with an appropriate crack remediating grout or sealant. Apply new sealer or floor coating, bead-blasting the surface of the floor to remove existing applied coatings. Test slabs for humidity and moisture vapor emissivity and if warranted, include a moisture vapor reducing coating to limit vapor drive.	800 sf	\$12,880	\$1,932
	4.05	Strip and refinish the wood flooring and steps to the stage. Note that some alterations of the stage front will be required to provide either a ramp or a vertical wheel chair lift to access the stage. Refer to the Accessibility portion of Regulatory Assessment for discussion.	1,000 sf	\$13,800	\$2,070
	4.06	In CMU walls, Repair cracks with grout or sealant as part of building-wide painting program. Monitor cracks on a periodic basis to determine if	58,630 sf	\$67,425	\$10,114
	4.07	cracks are worsening. (Allowance) Repaint walls throughout the building, removing all loose paint that is not properly adhered to the substrate.	58,630 sf	\$134,849	\$20,227
	4.08	In 1952 building, Verify that the sources of ceiling leaks are resolved. Remove all loose and damaged plaster and lath. Patch underlying materials and plaster or install new gypsum wall board patches with veneer plaster to match appearance of adjacent ceiling. Repaint ceilings in their entirety (and adjacent damaged walls) to provide a consistent "like new" appearance.	3,800 sf	\$124,545	\$18,682
	4.09	In 1982 and 1952 spaces with ACP systems, Verify the sources of all leaks are resolved. Replace all acoustic panel ceiling systems in the building. Humidity-resistant ceiling panels are recommended. Utilize grid types that are compatible with existing light fixtures.	<b>30,000</b> sf	\$310,500	\$46,575
	4.10	Replace doors. With any significant renovations, include replacement of doors and frames where fire ratings are required. (18 double, 70 single)	50 each	\$257,784	\$38,668
	4.11	Regardless of any planned renovations, consider replacement of all vision panels and glazing in the building with tempered or laminated safety glass. Provide fire rated safety glazing in vision panels and glazed openings at corridors and stairs. (11 locations)	11 loc	\$9,804	\$1,471
	4.12	Glazing needs to be replaced in the borrowed lite systems to tempered or laminated glazing.	1 ls	\$11,500	\$1,725
	4.13	Give the toilet partitions a good deep cleaning with cleaner recommended by the manufacturer. A thorough code analysis needs to be performed to verify that toilet partition layout meet ADA chapter 604 and MAAB requirements. (Allowance)	10 loc	\$5,750	\$863
	4.14	Mount fire extinguishers in semi-recessed wall cabinets in public areas per current code, mounting fire extinguishers in wall brackets in areas not accessible by the public is acceptable. Also add more quantity of fire extinguishers per current code requirements.	19 loc	\$9,833	\$1,475
1	4.15	Replace classroom casework throughout and provide accessible sinks.	1,020 lf	\$686,205	\$102,931
	4.16	In 1952 bldg, Strip original finish off of the sill down to raw wood. Prep wood as per finish manufacturer's instructions, apply new finish to the wood window sills.	300 lf	\$6,210	\$932
	4.17	Replace display boards in all classrooms with two 8' marker boards and two 4' tack boards. Marker boards in grades PK-3 shall be mounted at 18"	3617 sf	\$103,989	\$15,598
	4.18	AFF with heads at 6'-8" AFF. (35 spaces) In gym, Remove all of the old wall padding hardware and Velcro. Clean thoroughly surface of all the walls, at each end of the gymnasium at the basketball hoops install padding along entire length of wall. On the sides add sections of wall padding as required by code.	185 lf	\$34,040	\$5,106
	4.19	in 1952 bldg, Remove old shelf and coat hook system in their entirety. Patch old screw holes in the walls. Install new cubby and coat hook system with protection on the sides of each of the units for the coat hooks.	70 lf	\$33,166	\$4,975
	4.20	Remove old unit ventilators from classrooms and replace with new unit ventilator systems.	18 ea	See Below	

		NORTHBRIDGE ELEM SCHOOL	Quantity	Cost of Repair / Replacement (XX/2017 \$)	Designer / Pricing Contingency (15%)
		56,560 GSF			
	4.21	Provide new, basic-level LED stage lighting and digital controls drivable from a tablet PC. Professionally re-hang battens, checked and sized for loads. Professionally clean and re-hang stage curtains, and adjust travelers for smooth operation. Provide a large-format projection screen and hang in front of main traveler, but behind head curtain of proscenium.	1 ls	\$17,000	\$2,550
		TOTAL		\$2,777,306	\$416,598
5	Mecha	anical - HVAC		<del>+-</del> /,	7 1-1,100
	5.01	Test/remove abandoned fuel-oil system as required.	1 ls	\$65,000	\$9,750
	5.02	Test/abate all insulation as required	1 ls	\$260,176	\$39,026
	5.03	Add/replace hot water and steam piping insulation as required for complete system coverage.	1 ls	\$230,000	\$34,500
	5.04	Classrooms, Admin, Media Center- Replace existing unit ventilators and associated control systems with current technologies for compliance with the current building code and general energy efficiency.	<b>32,300</b> sf	\$826,758	\$124,014
	5.05	Classrooms, Admin, Media Center- Provide supplemental hot water heating terminal units within the space as the primary occupied and unoccupied heating source.	<b>32,300</b> sf	\$371,450	\$55,718
	5.06	In Gym, Replace existing air-handling and control systems with current technologies for compliance with the current building code and general energy efficiency.	2,653 sf	\$85,000	\$12,750
	5.07	In Gym, Provide supplemental hot water heating terminal units within the space as the primary occupied and unoccupied heating source.	2,653 sf	\$20,000	\$3,000
	5.08	In Cafetorium, Replace unit ventilators and associated control systems for complaince with the current building code and general energy efficiency.	1,992 sf	\$30,000	\$4,500
	5.09	In Cafetorium, provide supplemental Hot Water HTU within the space as primary occupied and unoccupied heating source.	1,992 sf	\$20,000	\$3,000
	5.10	Provide code required ventilation in corridors. Replace existing equipment including convectors, baseboards, and unit heaters.	24,470 sf	\$185,500	\$27,825
	5.11	Replace Pneumatic ATC with Direct Digital Control System.	56,560 sf	\$455,308	\$68,296
		TOTAL		\$2,549,192	\$382,379
6	Electr 6.01	ical Switchgear is beyond its serviceable life. Upgrade service equipment and	le	\$350,000	\$52,500
		provide with transient voltage surge suppression and replace all panelboards throughout the facility. Extend and reconnect existing branch circuits to new panelboards located in new dedicated electrical closets.	ls	, , , , , ,	,,,,,,,
	6.02	Battery units and exit sign condition vary and require maintenance on each unit. There is no generator at the facility. Provide a new emergency stand-by generator and a normal/emergency distribution system that will serve emergency lighting, life safety loads, and optional stand-by loads. The existing battery units can be eliminated and maintenance will be limited to the generator and transfer equipment only.	ls	\$150,000	\$22,500
	6.03	Interior lighting fixtures are not energy efficient. Replace existing lighting throughout the building with LED fixtures and provide an automated lighting control system with occupancy sensors to reduce energy usage and comply with the latest energy code.	ls	\$455,308	\$68,296
	6.04	Provide LED cut-off fixtures for roadway and parking areas.	ls	\$75,000	\$11,250
	6.05	Provide building mounted LED sconces over all exterior doors. Connect to emergency power or provide remote battery back-up.	ls	\$5,500	\$825
	6.06	Under a renovation program, the entire fire alarm system should be replaced.	ls	\$260,176	\$39,026
	6.07	Add GFI outlets/breakers for devices within 6' of a water source and protect all 15A and 20A devices in the kitchen.	ls	\$1,750	\$263
	6.08	Add receptacles for computer equipment and A/V that has been added over the years.	ls	\$6,000	\$900
	6.09	Paging system wiring and speakers are in poor condition. Replace speakers and wiring with new and connect to existing Rauland Telecenter headend.	ls	\$60,000	\$9,000
	6.10	Vodavi PBX Phone system is obsolete. Upgrade to a new district standard Voice Over IP System (VOIP).	ls	\$100,000	\$15,000

		NORTHBRIDGE ELEM SCHOOL	Quantity	Cost of Repair / Replacement (XX/2017 \$)	Designer / Pricing Contingency (15%)
	6.11	There are no dedicated data closets, and the backbone is 1 Gig. Build new dedicated conditioned MDF room and install 10 Gig lazer optimized fiber backbone to all IDFs and install enclosed wall racks in existing IDF locations with rack mounted UPS units.	Per Loc	\$30,000	\$4,500
	6.12				
	6.13				
		TOTAL		\$1,493,734	\$224,060
7	7.01	Roof drains?	Allow	\$50,000	\$7,500
	7.02	Replace existing hot water heater with high efficiency, gas fired domestic	1 ls	\$90,000	\$13,500
	7.03	hot water plant.  Replace all toilets with low-flow flush valves.	21 ea	\$147,000	\$22,050
	7.04	Replace all urinals with ow-flow urinals	2 ea	\$15,000	\$2,250
	7.05	Relocate chemical dispenser from lavatory.	1 ea	\$3,500	\$525
	7.06	Install backflow preventers at janitor's sink.	3 ea	\$8,550	\$1,283
	7.07	Classroom sink in modular building shall be piped to potable water and sanitary systems.	5 ea	\$30,000	\$4,500
		TOTAL		\$30,000 \$4,500  \$30,000 \$4,500  \$1,493,734 \$224,060  \$50,000 \$7,500  \$90,000 \$13,500  \$147,000 \$22,050  \$15,000 \$2,250  \$3,500 \$525  \$8,550 \$1,283  \$30,000 \$4,500	
8	8.01	rotection  Install a new fire suppression system throughout the building in compliance with NFPA 13.	56,560 GSF	\$365,950	\$54,893
н		TOTAL		\$365,950	\$54,893
9	Techn 9.01			Ć175 000	¢26.250
	3.01	Install all new data cabling with multiple drops per room to accommodate future wireless, instructional AV, and other network services. Cable should be Category 6A to future proof the school's infrastructure.	Is	\$175,000	\$20,230
	9.02	Create new intermediate distribution frame rooms that are dedicated and secure for housing network terminations and switch equipment, with dedicated power and environmental conditioning.	Per Loc	\$10,000	\$1,500
	9.03	Upgrade to fiber OM4 50 micron multimode as well as single mode between IDF's and MDF, to support future bandwidth demands.  Upgrade and replace the 5400zl series with the replacement 5400R series of chassis switches. Existing Switches can be redeployed elsewhere.	ls Is		
	9.05	Chassis switches should be equipped with SFP+ fiber optic modules, GbE and Gb PoE network ports and management modules.	ls		\$3,000
		Minimum backbone optics between MDF and IDF should be 20GbE over fiber.	Per LF		
	9.07	Replace with a new public address system, with a new main equipment and speakers throughout. Move main equipment to MDF.	ls		
	9.09	Replace with a new master clock synchronized with new secondary analog clocks throughout.  Utilize telephone handsets that connect them to the public address	ls		
		system to provide both internal and external communications. Add call switches to the rooms for separate independent calling capability.	Is		
	9.10	PA system handsets (Figure 5) exist in all rooms that tie to main office, but do not provde outside dialing. Add call switches and telephone handsets.	ls	\$30,000	\$4,500
	9.11	Telephone system should be upgraded with telephone handsets distributed throughout the school with voicemail capability provided for all administrators, staff and teachers. Voicemail should also be integrated with email, so that messages are received via both the telephone system and email.  Newer and standardized ultrashort projection technology should be	ls	\$70,000	
		deployed.			
	9.13	Update to newer interactive projection technology, which can be used with standard porcelain on steel marker boards and not screens. Newer projectors are brighter and use less energy and have less expensive lamps.	35 loc	\$210,000	\$31,500

	NORTHBRIDGE ELEM SCHOOL	Quantity	Cost of Repair / Replacement (XX/2017 \$)	Designer / Pricing Contingency (15%)
	56,560 GSF			
9.1	Deploy cost effective document camera technology for the classroom	35 loc	\$36,225	\$5,434
9.1	Deploy modern classroom voice reinforcement technology throughout all classrooms and learning spaces to serve all students and teachers. This equipment can also be linked to personal hearing aid equipment for the hearing impaired.	35 loc	\$105,000	\$15,750
9.1	Install new permeant sound equipment in assembly spaces	ls	\$30,000	\$4,500
9.1	7 Install a permanent mounted high lumen projector with connections to new audio system and inputs at the state for presentations. Upgrade screen.	ls	\$20,000	\$3,000
9.1	Install new audio system and projection screen on the wall. Upgrade portable cart with high lumen projector for use in the Gym.	ls	\$10,000	\$1,500
9.1	omenesses are an exement place in the delivery one to one and			\$(
9.2	additional Chromebook technology should be considered.  Furniture or built-in counters with power and cable distribution			\$(
9.2	technology is required in the ComputerLab.  Upgrade the Aruba wireless access point network to the District Aerohive network.	ls	\$50,000	\$7,500
9.2				
	TOTAL			****
	TOTAL		\$1,096,225	\$164,434
	dservice			
10.0	sanitation, and storage facilities is needed.	642 sf	\$164,641	\$24,69
10.0	The cold food serving counter is ice cooled. Replace with a modern mechanically cooled unit.	1 loc	\$23,000	\$3,450
	TOTAL		\$187,641	\$28,146
	ardous Material			
11.0	Hazardous Materials Removals	ls	\$970,000	\$145,50
11.0	2			
	HAZMAT ALLOWANCE		\$970,000	\$145,500
тот	ALS		\$12,565,544	\$1,884,83
ENERAL NO	otes			
ecific projec ope should l Some item oted above.	ch section of the Report for more detailed information. Before moving forward with a t, a detailed review of the scope of work and a re-assessment of the cost estimate for that be performed.  It is should be completed in combination with other items. Some of these suggestions may be the work of the second of		\$15,799,084.32	
Due to the onditions, sereas may limitigger other r	conceptual nature of these recommendations and estimates and the complexity of existing veral solutions may be provided to achieve the end result. Existing conditions in some t the ability to fully implement the proposed scope of work. Part or all of this work may enovation requirements related to code, seismic, sprinklers or handicap accessibility. Once no is made to move forward with a specific improvement line item, a mini study specific to			

a determination is made to move forward with a specific improvement line item, a mini study specific to the scope of work should be done to confirm the scope of work, prepare sketches as necessary and prepare a refined cost estimate.



## **DRAFT**

PM&C Estimate Dated 9/12/17

Dated 9/12/17					
SF	Option Option	Costs			Cost/SF
71,871	Option A1 - Repair Only Balmer ES	Construction Cost Fees,Testing, Utilities, and Expenses FFE/Technology Contingencies	total	\$26,136,536 \$4,748,432 \$0 \$1,829,558 <b>\$32,714,526</b>	\$455
56,560	Option A2 - Repair Only NES	Construction Cost Fees,Testing, Utilities, and Expenses FFE/Technology Contingencies	total	\$15,825,918 \$3,326,499 \$0 \$1,107,814 \$20,260,231	\$358
	Option B1 - Grade 2-4				
83,163	Renovation/Addition	Construction Cost Fees,Testing, Utilities, and Expenses FFE/Technology Contingencies	total	\$41,079,668 \$7,905,755 \$1,734,000 \$2,875,577 <b>\$53,595,000</b>	\$644
83,163	Option B2 - Grade 2-4 New Construction - Back	Construction Cost Fees,Testing, Utilities, and Expenses FFE/Technology		\$44,901,050 \$8,501,642 \$1,734,000	
		Contingencies		\$3,143,074	4-4-
			total	\$58,279,766	\$701
83,163	Option B3 - Grade 2-4 New Construction - Front	Construction Cost Fees,Testing, Utilities, and Expenses FFE/Technology Contingencies	total	\$44,250,631 \$8,413,835 \$1,734,000 \$3,097,544 \$57,496,010	\$691
	Outher Of Conde BY 5				
172,845	Option C1 - Grade PK-5 Renovation/Addition - New CR wing	Construction Cost Fees,Testing, Utilities, and Expenses FFE/Technology Contingencies	total	\$83,661,928 \$14,829,360 \$3,502,000 \$5,856,335 \$107,849,623	\$624
172,845	Option C2 - Grade PK-5 Renovation/Addition - Exist CR Wing	Construction Cost Fees,Testing, Utilities, and Expenses FFE/Technology Contingencies	total	\$79,133,659 \$14,218,044 \$3,502,000 \$5,539,356 <b>\$102,393,059</b>	\$592
	Ontion C2 Crade DK F				
172,845	Option C3 - Grade PK-5 New Construction - Back	Construction Cost Fees,Testing, Utilities, and Expenses FFE/Technology Contingencies	total	\$81,091,681 \$14,442,377 \$3,502,000 \$5,676,418 <b>\$104,712,476</b>	\$606
172,845	Option C4 - Grade PK-5 New Construction - Side	Construction Cost Fees,Testing, Utilities, and Expenses FFE/Technology Contingencies	total	\$88,085,064 \$15,386,484 \$3,502,000 \$6,165,954 <b>\$113,139,502</b>	\$655
			wai	7113,133,302	2000
172,845	Option C5 - Grade PK-5 New Construction - Front	Construction Cost Fees,Testing, Utilities, and Expenses FFE/Technology Contingencies	total	\$80,541,890 \$14,368,155 \$3,502,000 \$5,637,932 \$104,049,977	\$602



## DRAFT

Option C5 - Grade PK-5 New Construction - Front 1.00 1.00 0.00 2.00	Option C4 - Grade PK-5 New Construction - Side 57.11 1.00 0.00 2.00	Option C3 - Grade PK-5 New Construction - Back 57.11 1.00 0.00 2.00	Option C2 - Grade PK-5 Renovation/ Addition - Exist CR Wing 1.00 1.00 2.08 2.08	Option C1 - Grade PK-5 Renovation/ Addition - New CR wing 1.00 1.00 0.73 2.00	Option B3 - Grade 2-4 New Construction - Front 7.00 1.00 0.00 2.00	Option B2 - Grade 2-4 New Construction - Back 1.00 1.00 2.00	Option B1 - Grade 2-4 Renovation/ Addition 1.00 1.00 4.32 2.00	Option A2 - Repair Only NES  0.00 0.00 0.00 0.00	Option A1 - Repair Only Balmer ES  0.00 0.00 0.00 0.00	Base Reimbursement Rate Maintenance CM @ Risk Renovation Green Schools
61.11	61.11	61.11	63.19	61.84	61.11	61.11	65.43	0	0	Total Reimbursement Rate
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00	0.00	Green Schools
0.00	0.00	0.00	2.08	0.73	0.00	0.00	4.32	0.00	0.00	Renovation
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	CM @ Risk
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	Maintenance
57.11	57.11	57.11	57.11	57.11	57.11	57.11	57.11	AN	AN	Base Reimbursement Rate
Option C5 - Grade PK-5 New Construction - Front	Option C4 - Grade PK-5 New Construction - Side	Option C3 - Grade PK-5 New Construction - Back	Option C2 - Grade PK-5 Renovation/ Addition - Exist CR Wing	Option C1 - Grade PK-5 Renovation/ Addition - New CR wing	Option B3 - Grade 2-4 New Construction - Front	Option B2 - Grade 2-4 New Construction - Back	Option B1 - Grade 2-4 Renovation/ Addition	Option A2 - Repair Only NES	Option A1 - Repair Only Balmer ES	
100	2011	0	9	9	C. Hard	9				



PM&C Estimate Dated 9/12/17

Dated 9/12/17										
	Option A1 - Repair Only Balmer ES	Option A2 - Repair Only NES	Option B1 - Grade 2-4 Renovation/ Addition	Option B2 - Grade 2-4 New Construction - Back	Option B3 - Grade 2-4 New Construction - Front	Option C1 - Grade PK-5 Renovation/ Addition - New CR wing	Option C2 - Grade PK-5 Renovation/ Addition - Exist CR Wing	Option C3 - Grade PK-5 New Construction - Back	Option C4 - Grade PK-5 New Construction - Side	Option C5 - Grade PK-5 New Construction - Front
Total Project Cost	\$32,714,526	\$20,260,231	\$53,595,000	\$58,279,766	\$57,496,010	\$107,849,623	\$102,393,059	\$104,712,476	\$113,139,502	\$104,049,977
Approximate MSBA Reimbursement	0\$	\$0	\$24,573,878	\$23,710,519	\$23,662,857	\$46,518,887	\$46,814,054	\$45,800,346	\$46,501,839	\$45,745,225
Approximate Cost to the Town	\$32,714,526	\$20,260,231	\$29,021,122	\$34,569,247	\$33,833,153	\$61,330,736	\$55,579,005	\$58,912,130	\$66,637,663	\$58,304,752
Summary of Approximate Ineligible Costs Site Costs	na	na	\$4,403,267	\$3,782,055	\$3,103,893	\$178,504	\$1,581,059	\$1,222,348	\$708,916	\$651,896
Building Costs	na	na	\$9,101,664	\$12,983,967	\$13,010,350	\$27,574,225	\$22,030,958	\$23,769,077	\$31,281,881	\$23,789,221
Asbestos Flooring Abatement	na	na	\$180,000	\$180,000	\$180,000	\$180,000	\$180,000	\$180,000	\$180,000	\$180,000
FFE/Technology over \$2,400/student	na	na	\$510,000	\$510,000	\$510,000	\$1,030,000	\$1,030,000	\$1,030,000	\$1,030,000	\$1,030,000
Legal Fees, Moving Expenses, Contingencies	na	na	\$1,843,187	\$1,996,042	\$1,970,025	\$3,666,477	\$3,485,346	\$3,563,667	\$3,843,403	\$3,541,676
	0\$	0\$	\$16,038,118	\$19,452,064	\$18,774,268	\$32,629,206	\$28,307,363	\$29,765,092	\$37,044,200	\$29,192,793

PROJECT MANAGEMENT



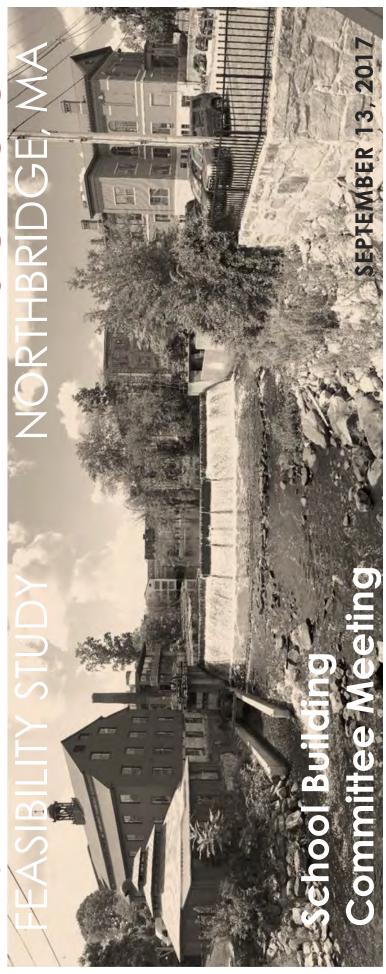
PROJECT MANAGEMENT

## **DRAFT - FOR DISCUSSION PURPOSES ONLY**

	Option B1 -	Option B2 - Grade 2-4	Option B3 - Grade 2-4	Option C1 - Grade PK-5	Grade PK-5 Renovation/	Option C3 - Grade PK-5	Option C4 - Grade PK-5	Option C5 - Grade PK-5
Option A1 - Option A2 -	Grade 2-4	New	New	Renovation/	Addition -	New	New	New
Repair Only NES	Renovation/ Addition	Construction - Back	Construction - Front	Addition - New CR wing	Exist CR Wing	Construction - Back	Construction - Side	Construction - Front
\$20,260,231	\$29,021,122	\$34,569,247	\$33,833,153	\$61,330,736	\$55,579,005	\$58,912,130	\$66,637,663	\$58,304,752
2.00%	2.00%	2.00%	5.00%	2.00%	5.00%	2.00%	2.00%	2.00%
20	20	20	20	20	20	20	20	20
2,494,483 \$ 1,544,843	\$ 2,212,861	\$ 2,635,905	\$ 2,579,778	\$ 4,676,469	\$ 4,237,899	\$ 4,492,050	\$ 5,081,122	\$ 4,445,737
284,000 \$ 284,000	\$ 284,000	\$ 284,000	284,000	284,000	\$ 284,000	\$ 284,000	\$ 284,000	\$ 284,000
\$ 283.50	\$ 406.09	\$ 483.73	\$ 473.43	\$ 858.20	\$ 777.72	\$ 824.36	\$ 932.46	\$ 815.86
\$ 0.9982	\$ 1.4299	\$ 1.7033	\$ 1.6670	\$ 3.0218	\$ 2.7384	\$ 2.9027	\$ 3.2833	\$ 2.8727
\$ 5,670	\$ 8,122	\$ 9,674	\$ 9,468	\$ 17,163	\$ 15,554	\$ 16,487	\$ 18,649	\$ 16,317
		<b>.</b>	\$ 284,000 \$ 284,000 \$ 1.7033 \$ 8.122 \$ 9,674	\$ 284,000 \$ 284,000 \$ 284,000 \$ 284,000 \$ 1.4299 \$ 1.7033 \$ 1.6670 \$ 8.122 \$ 9,674 \$ 9,468	\$ 284,000 \$ 284,	\$ 284,000 \$ 284,000 \$ 284,000 \$ 284,000 \$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$       284,000       \$       284,000       \$       284,000       \$       284,000       \$       284,000       \$       284,000       \$       \$       284,000       \$       \$       284,000       \$	\$         284,000         \$         282,002         \$         283,246         \$         282,002         \$         282,002         \$         282,002         \$         282,002         \$         282,002         \$         282,002         \$         282,002         \$         282,002         \$         282,002         \$         282,002         \$         282,002 <th< td=""></th<>

Assumptions: Tax rate based on Fiscal 2017 assessed valuation and AVERAGE house value of \$284,000. Yearly impact will change based upon subsequent year tax rates and valuations.

# W. EDWARD BALMER SCHOOL







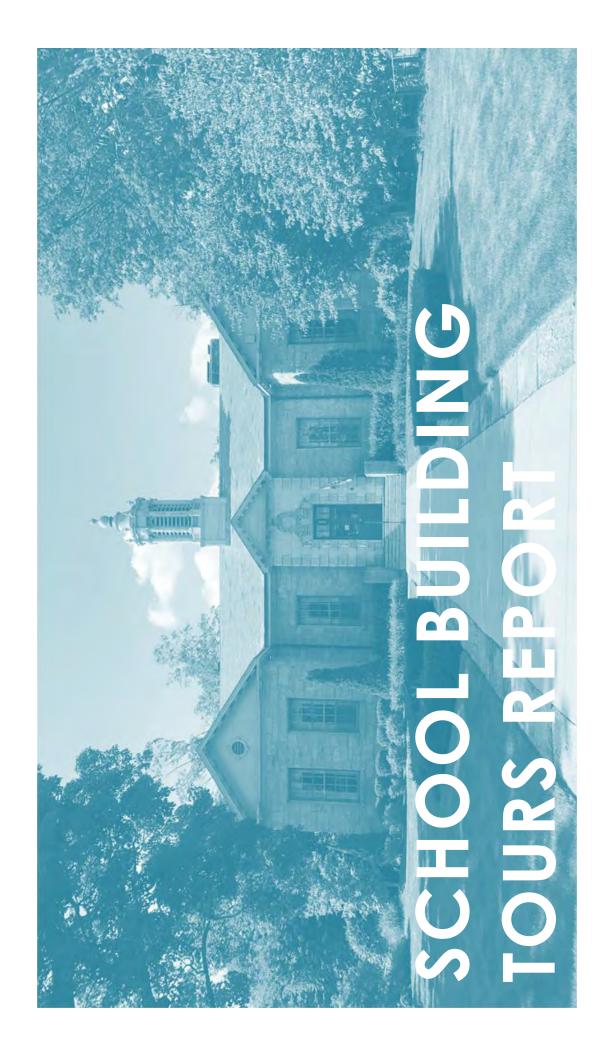






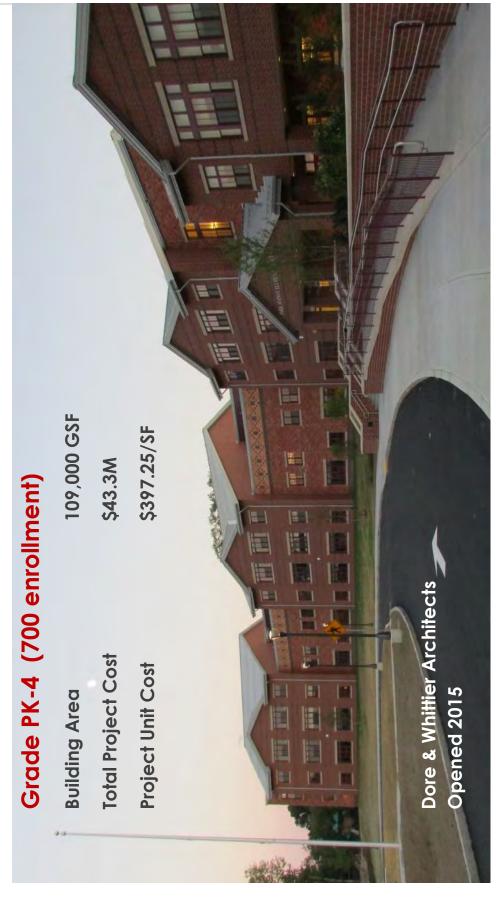
## adeuqa

- 1. School Building Tours Report
- 2. Green Building & Sustainability Strategy
- 3. Space Summary (Program) Update
- 4. Design Alternatives Update
- 5. Review Preliminary Cost Models
- 6. Questions, Comments, Feedback









WEBSTER, MA

PARK AVENUE ELEMENTARY SCHOOL,

## Liked outdoor learning area Sterile, not colorful enough

Needs more student work

displayed

No teacher collaboration

## field trip report



Liked use of large areas for

Reactions:

presentation

Liked classroom furniture











No color navigation

space

Traditional plan – "silos"





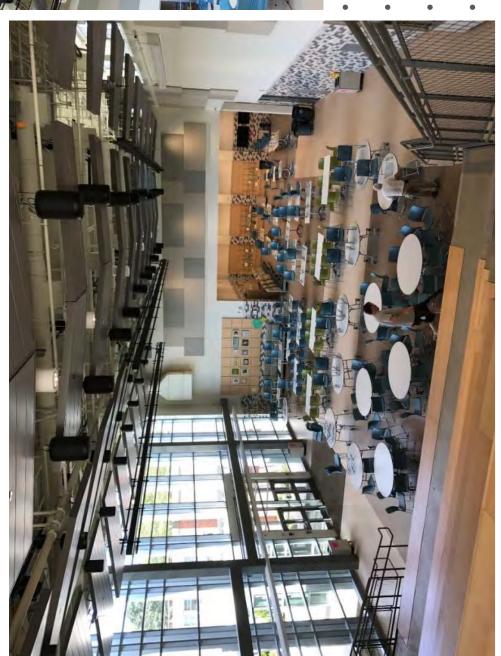
- Liked corridor wood panels
- Liked displacement ventilation
- Liked "airport-style" toilet rooms
- In-classroom cubbies interesting

- Playgrounds seemed small
- No accessible playground modules
- Play fields too distant from school
- Liked resilient rubber gym floor





## GATES MIDDLE SCHOOL, SCITUATE, MA





- Flexible plan
- Hallerup stair
- Railing concerns
- Liked color palette









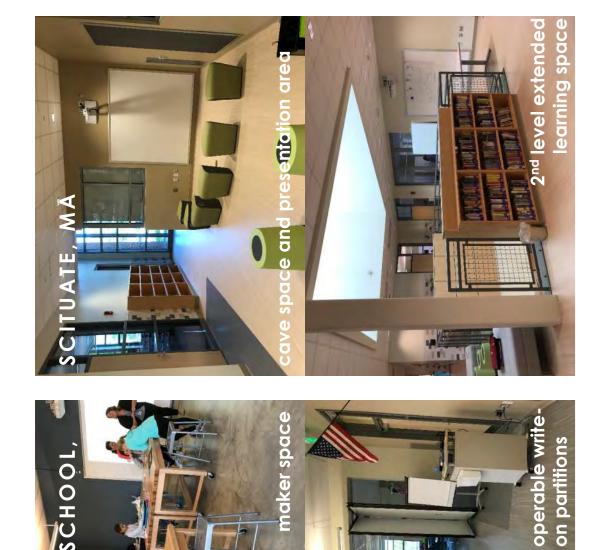




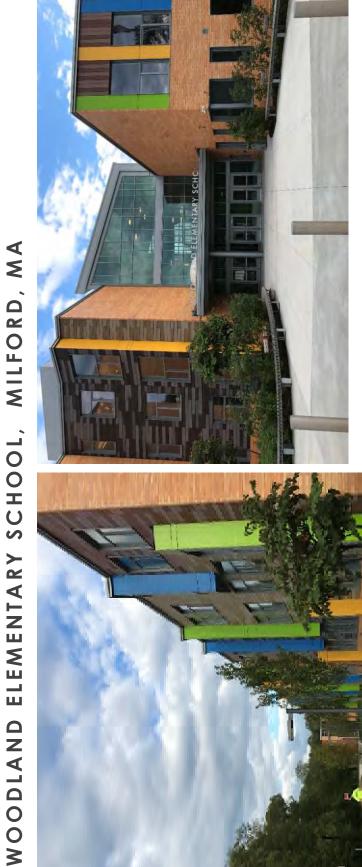
- 1:1 technology BYOD works well
- 2-story "holes" seem wasted would rather have the floor space

Principal wants closers off classroom doors









## Grade 3-5 (985 enrollment)

132,500 GSF **Building Area** 

**Total Project Cost** 

**HMFH Architects** 

Opened 2016

**Project Unit Cost** 

\$459.49/SF

\$40.9M





- Flooded with light
- Liked many interior materials
- Liked vibrant colors

- Welcoming
- · Lots of sound control
- Well thought-out and intentional







Vibrant colors!

Liked triangular desks

- Sloped ceilings to capture daylight Hokki stools as option in classrooms
- Liked built-in features, bay window
- Airport-style toilet rooms work well

## WOODLAND ELEMENTARY SCHOOL, MILFORD, MA



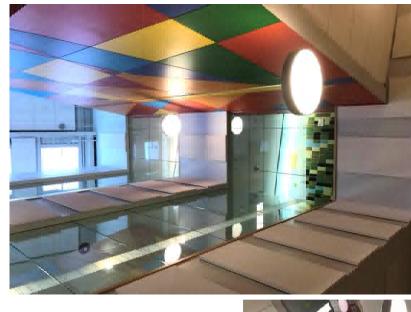










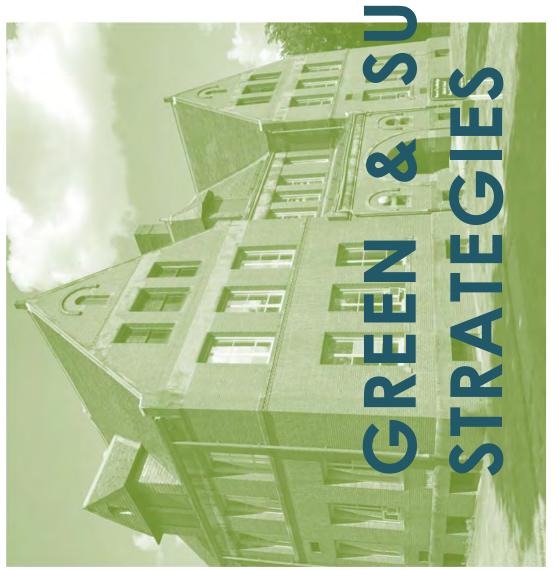


dimension/ natural light deep into plan Use of vertical

Red room



## SUSTAINABLE



## green strategies



## PROPOSED GREEN BUILDING RATING SYSTEM:

## LEED BD+C for Schools



# Credits or Points in Six Key Categories + Enhancements

- Location and Transportation
- Sustainable Site Planning

Regional Priority

Innovation

- Water Efficiency
- Energy and Atmosphere
- Materials and Resources
- Indoor Environmental Quality

Four Levels:

Certified, Silver, Gold, Platinum

## strategies dreen





# LEED v4 -Preliminary Credit Checklist

W. Edward Balmer Elementary School Project Name:

LEED v4 for BD+C: Schools Preliminary Project Checklist

## **MSBA Requirements**

Minimum LEED

"Certified" level

Suitaing Frontied Discipants and Optimization - Staurchy of Rem Mainrielle Landon, Product Discusses and Option above. Environmental Production

Could what the control of the American Services Countries

Milita Life Cycle Impact Reduction

4 8 4 Materials and Resources

N Sweet Baregs and Collector of Respondibles

10 10

1 3 11 Location and Transportation

Integrative Process

CHOS

Separation Land Printerson

Harry Principly Ster

Statemeting Density and Diverse Loss

Accesse to Charlity Transit

Recuent Porting Forhyland Green Wildson

Statement Fractist Office course and Cofferingston - Material Ingredients Constitution and Dendition World Management

Indoor Environmental Quality
Swag Mehrers Indoor Air Quality Perfer uses Elemental Tobasco Saeche Central Enforced Incor for Couldy Marketons Low-Emiling Materials

**Exceed MA Energy** 

Code by 10%

Constitution index for Challing Management Plan

Otto Assusperant Site Development - Protect or Restone Health sanction Anthray Tolkation Prevention

Heat Island Restudion Light Pelluton Restudion

おところ からに はない

Mainwater Managamen

Environmental also Assessment

4 7 1 Sustainable Sites

INCOST ANY COMMENT ASSESSED. Thanese Comfort

reserver Ulching Coally Works

Ronne reimburee

POLICI LEILIDOI SE-	ment points (+2%)	exceed energy	code by 20%
	П		П

9 28 TOTALS	Possible Points
OF 100 11 OF 1	077 100 0 10 11

8 1 0 Regional Priority

over Regional Priority Utb. Utb. Sect. Evez. Evez. Hebr. He

Required Sequined

Building-Level Energy Metering

men Fronts Persons

14 12 5 Energy and Atmosphere

Water Shelpston

1 dress front front front front front

Enhanced Commissioning

Cplinton France Herbrean

LEED Accreding Professional

Constion: TBO

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Bullding-Level Water Weischn

Index Whiter Use Perkrollen

- Efficiency

5 1 6 Water E

Cultidoor Within Uses Reduction Index Water Lee Raduction Cooking Tener Withor Use

110	
Possible Points:	Platinum: 80 to 110
	Gold: 60 to 79 points,
	, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110
IOIALS	49 points,

## green strategies



## US EPA- Preliminary Energy Target

JAMTED STATES

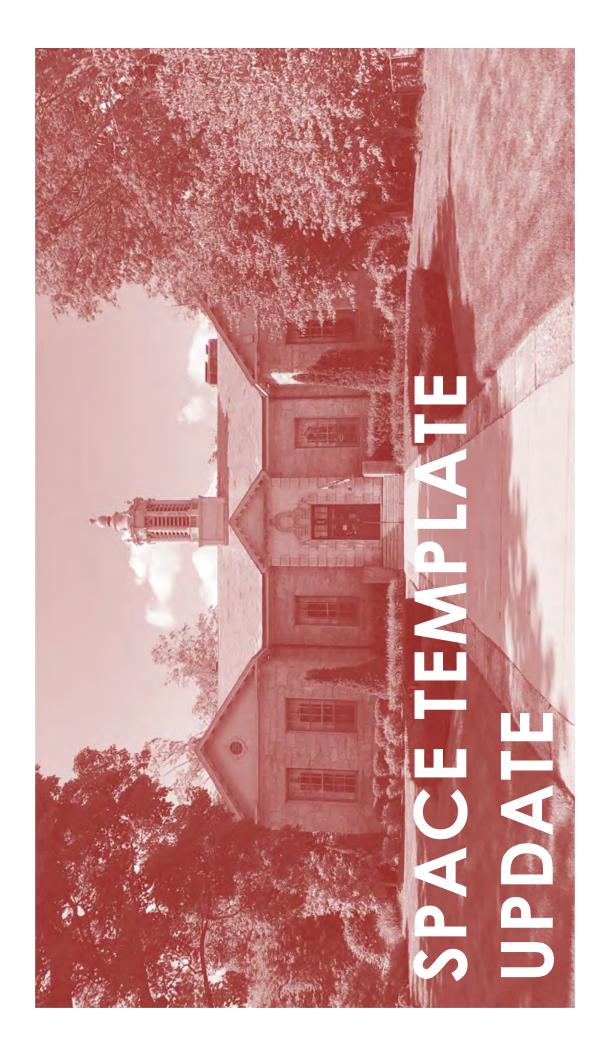
g P	Building Characteristics Assumptions	ASSUMMENDE		
	City: Northbridge		State: MA	MA .
Space Type	Gross Floor Area	Number of Students	Number of Workers	Months in use
K-12 School	173,000 <del>*</del>	1030	165	12 (assumed)
	Wkend	Cooking	% Heated	% Cooled
	No	STA	100	20

ţ.a	ENERGY TARGETS (1)	I s	~				
Energy Performance Rating	50 (Median)		90	L	95		100
Energy Use Reduction (%)	9/60		38.0%		45.9%		61.8%
Source Energy Use Intensity (kBtu/sf/yr)	107.1		66.5		57.9		40.9
Site Energy Use Intensity (kBtu/sf/yr)	67.3		41.7		36.4		25.7
Total Annual Source Energy (MBtu)	18,534		11,497		610,01		7,075
Total Annual Site Energy (MBtu)	11,641		7,221		6,293		4,444
Energy Cost Reduction (%)	9/00		38.0%		45.9%		61.8%
Total Annual Energy Cost (\$)	\$ 216,577	w	134,350	44	117,078	-649	82,675
Δ (change in energy cost)	ιγa	40	(82,227)	€O:	(66,469)		\$ (133,902)
co2 Emissions (Metric Tons CO2e /yr)	689.5	ı.	427.7		372.7		263.2
A (change in CO2 emission)	nýa		(292)	J	(317)		(426)
CO2 Emissions Reduction (%)	%0		38.0%		45.9%		61.8%

\*Larger PK-5 building option shown; smaller option similar

## **MSBA Requirements**

- Minimum Energy Performance Rating = 95
- Intensity (EUI) of Translates to **Energy Use** mid-30's
- project: EUI 37.7 Recent D&W



## Ybuts Ytilidisper

MSBA-Reimbursed Project

## ALTERNATIVES

Grade 2-4 Option

Future **Projects** 

9th-12th **Balmer ES** District Offices 5th-8th NMS PK-1st NES

**EXISTING** 

SITE

• NEW 2<sup>nd</sup> -4<sup>th</sup> (210)

· ADD/ RENO

NHS

Admin Bldg.

## Ybuts Ytilidisper

MSBA-Reimbursed Project

## ALTERNATIVES DESIGN

Grade PK-5 Option

Projects **Future** 

## **EXISTING**

SITE

PK-5 (1030)

• NEW

· ADD/ RENO

**Balmer ES** 

6<sup>th</sup>-8<sup>th</sup> Internal Reorg.

PURPOSED

9th-12th

NHS

NMS

NES

Offices District

Admin Bldg.



# PROPOSED SPACE SUMMARY (UPDATED DRAFT)

## Grade 2-4 Option (510 enrollment):

71,871 GSF Existing (Balmer): 83,163 GSF Proposed (meets MSBA standard):

Existing Balmer School is 13.5% undersized

## Grade PK-5 Option (1030 enrollment):

Existing (Balmer + NES)

128,431 GSF

172,845 GSF Proposed (meets MSBA standard):

Existing Balmer + NES space is 25.7% undersized



# PROPOSED SPACE SUMMARY HIGHLIGHTS

## Grade PK-5 Option (1030 enrollment):

- 4 PK, 9 K, and 8 per grade 1-5 classrooms
- **Extended Learning Spaces**
- Teacher Planning Spaces
- Maker Spaces (3)
- Special Education:
- Classrooms
- Small group support spaces
- Resource Rooms
- OT/PT, Adaptive PE
- Teacher spaces
- Art Rooms (2)

- Music Rooms (2)(1) 6,000 SF Gym w/ 3-row bleacher
- Media Center central and distributed
- Cafeteria with differentiated sections
- Nurse's office
- School Administration Offices including mail, copy, conference room, etc.
- Counseling Offices
- Custodial/ Maintenance/ Mechanical
- Parents/Community Room



# PROPOSED SPACE SUMMARY HIGHLIGHTS

Grade 2-4 Option (510 enrollment): "Generally the same, but less/smaller"

- 8 per grade 2-4 classrooms
- **Extended Learning Spaces**
- Teacher Planning Spaces
- Maker Space (1)
- Special Education:
- Classrooms
- Small group support spaces
- Resource Rooms
- OT/PT
- Teacher spaces
- Art Room (1)

- Music Room (1)
- (1) 6,000 SF Gym w/ 3-row bleacher
- Media Center central and distributed(?)
- Cafeteria with differentiated sections
- Nurse's office
- School Administration Offices including mail, copy, conference room, etc.
- Counseling Offices
- Custodial/ Maintenance/ Mechanical
- Parents/Community Room

## planning sbace



## **ASSESSMENT AND PROGRAM HIGHLIGHTS**

DISTRICT ADMINISTRATION SPACE ANALYSIS

- Stately Residential Building, but ill-equipped for Office use
- environment (hot/cold), no sprinkler, possible structural concerns... Serious Issues: Client Privacy, Handicapped Accessibility, meeting space, file space, safe storage space for vital records, indoor



Existing space, totals

**4,718 Net SF** 

5,485 Net SF

- Recommended proposed space, totals
- Proposed total required space







# MIDDLE SCHOOL CAPACITY ANALYSIS (UPDATED)

## **EXISTING MS SPACE UTILIZATION**

Existing Overall Building area:

- 11,476 GSF

176,340 GSF

District Maintenance/Storage

164,864 GSF

Effective Middle School use:

96,979 NSF

Existing MS Educational Program area:

1.70 Grossing Factor (ratio of gross to net SF) – indicates

an older, less-space-efficient building.

MSBA benchmark is (1.5).



# MIDDLE SCHOOL CAPACITY ANALYSIS (UPDATED)

CASE 1 - Existing Grades 5-8 (735 enrollment);

Proposed Grades 6-8 (~551 enrollment):

Existing Educational Program:	96,979 NSF
← 5 <sup>th</sup> Grade moves to Balmer	- 7,536 NSF
Subtotal	89,443 NSF
→ Add Central Admin Offices	+ 5,485 NSF
Existing District Maintenance/Storage	+ 7,651 NSF
Total Net Area Occupied	102,579 NSF
Grossing Factor	X 1.5
Total Gross Area Occupied	153,869 GSF
Existing MS Area:	176,340 GSF
Delfa (underutilized or additional capacity)	22,471 GSF



# MIDDLE SCHOOL CAPACITY ANALYSIS (UPDATED)

Option discussed:

move 5<sup>th</sup> grade to Balmer

relocate all classes in 1905 wing to the rest of the Middle School

"mothball" 1905 wing, due to its poor condition.

42,079 GSF

Delta (additional capacity) from previous slide

Taking 1905 building offline

22,471 GSF

Therefore, there is not enough space in the building to accommodate a Grade 6-8 program, AND add Central Administration, AND keep District Maintenance, AND mothball the 1905 wing.



# MIDDLE SCHOOL CAPACITY ANALYSIS (UPDATED)

## CASE 2 - TRY TO TAKE 1905 WING OFFLINE:

Existing Educational Program:	96,979 NSF
Renovate Maint/Stor. to Educational Space	+ 7,651 NSF
← 5 <sup>th</sup> Grade moves to Balmer	- 7,536 NSF
Subtotal	97,094 NSF
Keep Central Admin Offices in 87 Linwood Ave	0
Total Net Area Occupied	97,094 NSF
Grossing Factor	X 1.5
Total Gross Area Occupied	145,641 GSF
Existing MS Area:	176,340 GSF
Delta (underutilized or additional capacity)	30,699 GSF
Taking 1905 building offline	42,079 GSF – still not enough space



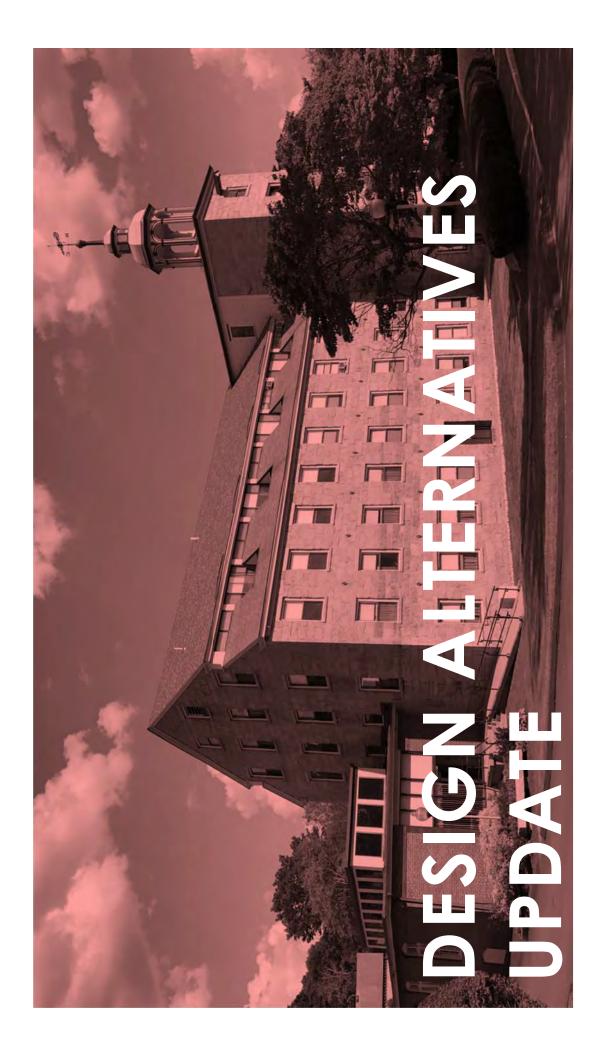


# MIDDLE SCHOOL CAPACITY ANALYSIS (UPDATED)

## CONCLUSIONS:

- This space analysis is high-level, base purely on gross and net area (SF) and does not address detail-level realities in the building.
- There is often program mismatch in Middle School educational spaces; e.g. small-sized class meeting in a large room.
- The District should do a room-by-room study of the Case 2 scenario:
- Move out 5th grade to new/renovated Balmer ES
- Renovate storage/underutilized space on ground level C wing to educational space (keep District Maintenance shops)
- Relocate all classes in 1905 wing to the rest of the Middle School on a room by room basis, with intent to mothball 1905 wing.

Maybe it can work?





### (RENO ONLY) A SERIES

**RENOVATIONS** 

TO EXISTING

BUILDINGS

**Balmer ES** 

CODE AND DEFERRED

PK-1st

**IMPROVEMENTS EDUCATIONAL** NES

NON- MSBA-Reimbursed **Projects** 

### (GRADE 2-4) **B SERIES**

**Balmer ES** 

**MAINTENANCE** 

**JPGRADES** 

REAR NEW/ **B2** 

**FRONT** NEW/

Reimbursed **Projects** 

### (GRADE PK-5) C SERIES

5

2

**Balmer ES** 

**Balmer ES** 

NEW/ 2

NEW/ **FRONT** 

EAST-REAR

REAR NEW/

MSBA-

Reimbursed **Projects** 

# DESIGN ALTERNATIVES



## OPTION A - CODE AND DEFERRED MAINTENANCE UPGRADES

To extend the life of the building, this option addresses:

- deferred maintenance
- · code deficiencies
- life safety issues
- basic functional deficiencies
- Assumes projects will be undertaken over time, with like items grouped together, but still not as cost-efficient as wholesale renovation.
- Does not address any educational program issues
- This work is not MSBA-reimbursable





**VISITOR PARKING** 

**BUS DROP-OFF** 

1. 2. 2. 3. 4. 4. 7. 7. 9. 110. 111.

PLAYGROUND

CAR DROP-OFF EXISTING BLDG.

**ONE-WAY EXIT** 

LEARNING

ADDITION OUTDOOR PLAY FIELDS NATURE TRAIL

12. 13.

WETLAND

BUS ENTRANCE CAR ENTRANCE

VAIL FIELD

LEGEND

RAIN GARDEN

**OPTION B1** 

2-4 (510)

### ADD/RENO



# OPTION B1 - 2-4 RENO/ADD

## PRELIMINARY PHASING PLAN:

- Y1 Q2-4, Y2 Q1: Build new addition one grade, one story as swing space.
- Y2 Q2-3: Move one grade to addition, renovate vacant existing space Si
- 3. Y2 Q4: Small reno projects on vacations
- Y3 Q2-3: Move another grade to addition, renovate vacant existing space 4
- 5. Y3 Q4: Small reno projects on vacations
- Y4 Q2-3: Renovate all remaining core spaces; all site work; turn over 6.

### **OPTION B2**

2-4 (510) LEGEND

- VAIL FIELD BUS ENTRANCE
- RAIN GARDEN
- GRADE 2 (1 ST.) CORE SPACES 1. 2. 3. 3. 7. 10. 11.
- GRADE 3-4 (2 ST)
  - **DRY SWALE**
- CAR DROP OFF **BUS DROP OFF** 
  - PLAY FIELD
- **PLAYGROUND**
- **NATURE TRAIL** WETLAND
  - OUTDOOR
- **BIKE-PED PATH** LEARNING 16.





### **OPTION B3** 2-4 (510)

### LEGEND

- PLAY FIELDS
- **BUS ENTRANCE**
- CAR ENTRANCE
  - LEARNING GARDEN
- PLAYGROUND
- **CORE SPACES**
- GRADE 3-4 (2 ST.) CAR DROP OFF
  - **BUS DROP OFF**
- **NEW VAIL FIELD RAIN GARDEN** 5. 6. 7. 8. 9. 110. 12.
  - **NATURE TRAIL** WETLAND
- BIKE-PED PATH



## NEW CONSTRUCTION -

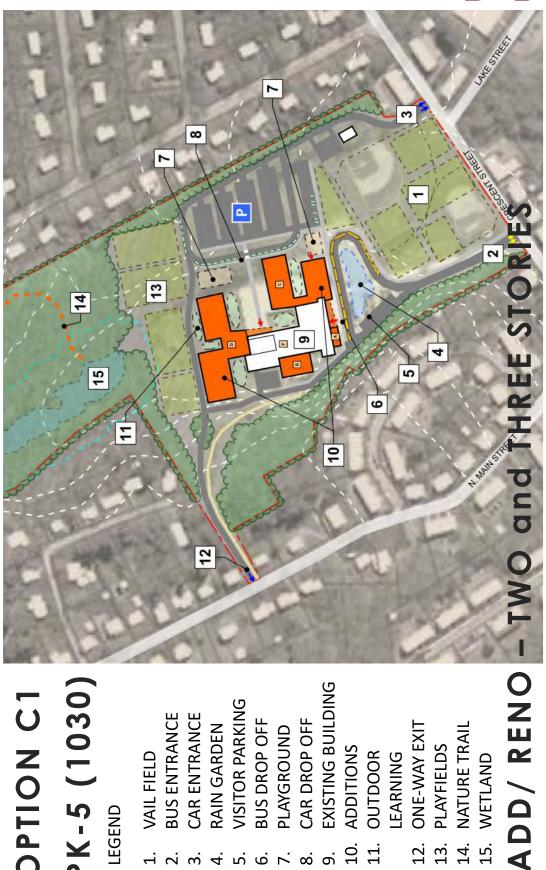


### PK-5 (1030)

**OPTION C1** 

### LEGEND

- VAIL FIELD
- **BUS ENTRANCE**
- CAR ENTRANCE RAIN GARDEN
- **VISITOR PARKING** 1. 2. 3. 3. 4. 7. 7. 6. 6. 9. 110. 110.
  - **BUS DROP OFF** PLAYGROUND
- CAR DROP OFF
- **EXISTING BUILDING** 
  - **ADDITIONS**
- OUTDOOR LEARNING
- **ONE-WAY EXIT** 12. 13.
  - PLAYFIELDS
- NATURE TRAIL WETLAND





# OPTION C1 - PK-5 RENO/ADD

### **PRELIMINARY PHASING PLAN:**

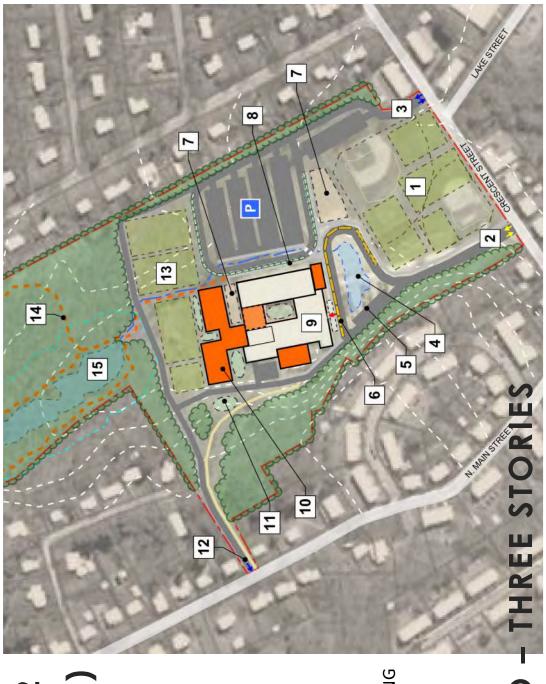
- Y1 Q2-4, Y2 Q1: Enabling site work; Build new addition for grades 2-5; Includes new mechanical room for all.
- Y2 Q2-3: Move grades 2-4 to addition, use Grade 5 addition space for specials temporarily; demolish existing 2-story classroom wing 6
- Y2 Q4, Y3 Q1-2: Build new addition for grades PK-1 plus new gym addition; small reno/enabling projects over vacations ന
- Y3 Q3-4, Y4 Q1: use lower school addition as temp swing space for specials and admin; renovate existing core space 4
- Y4 Q2-3: Summer to complete core reno, move PK-1 from NES, and tie together; all remaining site work; turn over. 5



### PK-5 (1030) **OPTION C2**

### LEGEND

- VAIL FIELD
- CAR ENTRANCE **BUS ENTRANCE**
- RAIN GARDEN
- **VISITOR PARKING BUS DROP OFF** 
  - PLAYGROUND
- CAR DROP OFF
- EXISTING BLDG. ADDITIONS
- **OUTDOOR LEARNING** 
  - EXIT (ONE-WAY)
- **NATURE TRAIL** PLAY FIELDS
  - WETLAND



### ADD/RENO -





### PK-5 (1030) **OPTION C3**

### LEGEND

- VAIL FIELD
- ENTRY/EXIT
- RAIN GARDEN **DRY SWALE** 
  - PLAY FIELDS
- **NEW SCHOOL**
- PK-K DROP-OFF CAR DROP OFF
  - **PLAYGROUND**
- **OUTDOOR LEARNING BUS DROP OFF** 
  - **NATURE TRAIL**
- WETLAND
- **BIKE-PED PATH**

# NEW CONSTRUCTION - THREE STOR

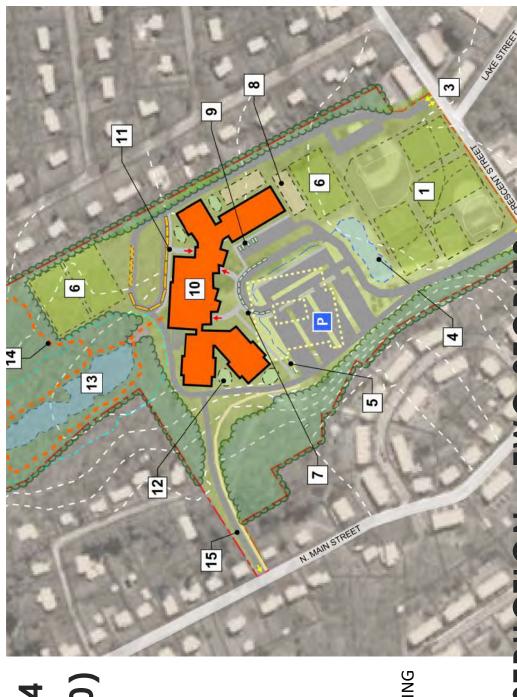
### PK-5 (1030) **OPTION C4**

LEGEND

- VAIL FIELD
- CAR ENTRANCE

**BUS ENTRANCE** 

- RAIN GARDEN
  - **DRY SWALE** 
    - PLAY FIELD
- CAR DROP OFF PLAYGROUND
- PK-K DROP OFF
- **NEW BUILDING**
- **OUTDOOR LEARNING BUS DROP OFF**
- **NATURE TRAIL** WETLAND
- **ONE-WAY EXIT**
- NEW CONSTRUCTION TWO STOR



### PK-5 (1030) OPTION C5

LEGEND

- PLAY FIELDS
- **PLAYGROUND** OUTDOOR
  - LEARNING
- **UPPER SCHOOI CORE SPACES**
- LOWER SCHOOL **BUS DROP OFF**
- CAR DROP OFF 4. 5. 7. 7. 10. 111. 113.
- RAIN GARDEN NEW VAIL FIELD WETLAND
  - **NATURE TRAIL**
- **PATHWAY**

## NEW CONSTRUCTION -







### 

### (RENO ONLY) A SERIES

(GRADE 2-4)

**B SERIES** 

**Balmer ES** 

\$32.7M

**UPGRADES** 

\$20.3M NES

**IMPROVEMENTS** 

**EDUCATIONAL** 

\$ 53.0M total

NON-MSBA-Reimbursed Project(s)

Reimbursed **Project** 

MSBA-

\$53.6M **MAINTENANCE RENOVATIONS** TO EXISTING **CODE AND** BUILDINGS DEFERRED

NEW/ REAR **B**2

\$58.3M

NEW/

\$57.5M **FRONT** 

(GRADE PK-5) C SERIES

RENO/ADD **DEMO CR** 

RENO/ADD

**C**5

KEEP CR

\$107.9M

\$102.4M

EAST-REAR REAR NEW/ က

NEW/ 2

NEW/

**C**2

\$113.1M \$104.7M

\$104.1N

**FRONT** 

Reimbursed MSBA-

**Project** 

CONCEPTUAL TOTAL PROJECT COST ESTIMATES

