

PROJECT MINUTES

Project:	Peebles Elementary School Feasibility Study	Project No.:	15041
Prepared by:	Joel Seeley	Meeting Date:	9/8/2016
Re:	School Building Committee Meeting	Meeting No:	24
Location:	Bourne Veteran’s Memorial Community Center	Time:	7:00pm
Distribution:	School Building Committee Members, Attendees (MF)		

Attendees:

PRESENT	NAME	AFFILIATION	VOTING MEMBER
✓	James L. Potter	Chairman, School Building Committee	Voting Member
✓	Peter J. Meier	Board of Selectmen	Voting Member
	Christopher Hyldburg	Chairman, School Committee	Voting Member
✓	Natasha Scarpato	Member, School Committee	Voting Member
✓	Donna Buckley	Member at Large	Voting Member
✓	Richard A. Lavoie	Finance Committee	Voting Member
✓	William Meier	Building Trade Expert	Voting Member
		Member at Large	Voting Member
✓	Frederick H. Howe	Board of Health, Vice-Chairman School Building Committee	Voting Member
✓	Steven M. Lamarche	Superintendent of Schools, BPS	Voting Member
	Edward S. Donoghue	Director of Business Services, BPS	Non-Voting Member
	Thomas M. Guerino	Town Administrator	Non-Voting Member
		Director of Facilities, Town of Bourne	Non-Voting Member
	Elizabeth A. Carpenito	Principal, BES	Non-Voting Member
	Kathy Anderson	Elementary/Special Education Secretary	Non-Voting Member
	Janey Norton	Principal, PES	
✓	Kent Kovacs	FAI, Architect	
	Betsy Farrell Garcia	FAI, Architect	
	Michael Cimorelli	FAI, Architect	
✓	Joel Seeley	SMMA, OPM	

Item #	Action	Discussion
24.1	Record	Call to Order, 7:00 PM, meeting opened.
24.2	Record	A motion was made by F. Howe and seconded by P. Meier to approve the 9/1/16 School Building Committee meeting minutes. No discussion, motion passed unanimous by those attending, one abstention.
24.3	Record	J. Seeley distributed and reviewed the Project Budget Status Report, dated 8/31/16, attached.
24.4	Record	Warrant No. 11 was reviewed. A motion was made by P. Meier and seconded by R. Lavoie to approve Warrant No. 11. No discussion, motion passed unanimous.
24.5	J. Seeley	J. Seeley has contacted MSBA relative to the High School capacity being considered a reimbursable expense and is awaiting direction.
24.6	J. Norton	J. Norton is taking the lead in developing a video tour of the existing Peebles that can be posted on the Town's project website page as well as any Facebook page that may be created.
24.7	P. Meier J. Potter	Update on Committee Membership <ol style="list-style-type: none"> 1. J. Potter to follow-up with the Town Moderator to fill the one Member-at-Large vacancy. 2. P. Meier indicated he contacted the Town Administrator and the Facilities Director vacancy would not be filled until after Special Town Meeting.
24.8	J. Seeley	J. Seeley to follow-up with MSBA on approval of the Town Meeting Warrant and the Ballot vote language.
24.9	Record	P. Meier confirmed no other State agency in addition to MSBA is required to approve the Ballot vote language.
24.10	Committee	Committee members are encouraged to view the www.newpeebles.weebly.com website and send any feedback to S. Lamarche, who has volunteered to be the liaison with the resident.
24.11	J. Seeley	J. Seeley distributed and reviewed the progress Committee biographies. J. Seeley to compile the remaining Committee members' biographies and issue to the Committee and post on the Town website.
24.12	J. Potter	J. Potter to schedule a point-counter point discussion on the Project on Bourne Community Television with P. Meier or another Selectmen.
24.13	J. Seeley	J. Seeley distributed and reviewed the updated Roadshow Schedule, dated 9/8/16 and attached. The Committee champions updated their meetings information. J. Seeley to update the schedule and issue to the Committee.
24.14	Record	J. Seeley provided an update on the Middle School Open House attended by E. Carpenito, K. Anderson, K. Kovacs and J. Seeley.
24.15	Record	S. Lamarche provided an update on the Rotary Club meeting attended by C. Hyldburg and S. Lamarche.

Item #	Action	Discussion
24.16	K. Kovacs	K. Kovacs distributed and reviewed the updated flyer. K. Kovacs to email to the Committee for distribution. J. Seeley to post on the Town website.
24.17	J. Seeley	J. Seeley distributed and reviewed the updated FAQ sheet. J. Seeley to email to the Committee for distribution and post on the Town website.
24.18	J. Seeley	<p>J. Seeley distributed and reviewed the draft Bourne Community Television interview outline, to be held at 2:00pm on 9/15/16, attached.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"> 1. S. Lamarche indicated he has a conflict on 9/15/16 and J. Norton will present in his place. 2. J. Seeley to update the outline and send to the speakers for review.
24.19	E. Donoghue K. Kovacs J. Seeley	E. Donoghue, K. Kovacs and J. Seeley to provide Capital Outlay the following requested information prior to the 9/14/16 presentation, past 5 years maintenance projects, projected cashflow for the project and capital projects required at Peebles if the vote fails.
24.20	J. Seeley	<p>The Committee discussed the importance of both the new Police Department building and the new Peebles Elementary School to the Town and residents of Bourne.</p> <p>After Committee discussion, a motion was made by R. Lavoie and seconded by N. Scarpato to request the Board of Selectmen take an affirmative vote in support of both projects at the earliest possible date.</p> <p>A motion was made by S. Lamarche and seconded by P. Meier to table the motion until the next Committee meeting. No discussion, voted unanimously. J. Seeley to include in the agenda for the next Committee meeting.</p>
24.21	K. Kovacs	K. Kovacs to provide 7 poster boards for Community Forum No. 9 to held on 9/20/16 at the Peebles School.
24.22	K. Kovacs	K. Kovacs provided a design update, including an exterior rendering and DESE submission documents for Special Education spaces. K. Kovacs to email the rendering to the Committee for distribution.
24.23	K. Kovacs J. Seeley	<p>K. Kovacs reviewed the Schematic Design two independent Construction Cost Estimates performed by PM&C and AM Fogarty, attached, and the cost reconciliation meeting held at SMMA's office. J. Seeley distributed and reviewed the Total Project Budget form reflecting the PM&C cost estimate. The Total Project Budget increased from \$39.99 million to \$40.25 million. K. Kovacs reviewed potential scope additions and deductions.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"> 1. J. Potter asked did the roofing on the steeped slope rooves change to PVC? <i>K. Kovacs indicated no, the PSR submission had PVC roofing on the steeped slope rooves.</i> 2. R. Lavoie asked what is the purpose of increasing the emergency generator size?

Item #	Action	Discussion
		<p><i>K. Kovacs indicated it would provide additional stand-by loads, in case the school was to be used as a warming shelter. The current size accommodates life safety loads primarily.</i></p> <p>3. W. Meier indicated he would not like to see the academic wing steep slope roof deleted.</p> <p>4. W. Meier asked if in the future the project is trending to be under budget, can the granite curbing, site sign and decorative metal screen be added back into the project? <i>K. Kovacs indicated yes.</i></p> <p>5. S. Lamarche indicated he believes the Committee should not increase the project cost over the \$39.99 million.</p> <p>6. D. Buckley indicated the classroom sinks, storage units, and interconnecting doors are essential for the school.</p> <p>7. J. Potter indicated CPC funds could be explored for possibly funding the tennis courts.</p> <p>A motion was made by S. Lamarche and seconded by R. Lavoie to accept the granite curbing, site sign and decorative metal screen deductions and submit the Total Project Cost of no more than \$39.99 million to the MSBA. No discussion, voted unanimously.</p> <p>K. Kovacs and J. Seeley to update the estimates and budget and submit to the MSBA.</p>
24.24	Record	Old or New Business: None
24.25	Record	Community Forum No. 9: September 20, 2016 at 6:00 pm at the Peebles Elementary School.
24.26	Record	Next SBC Meeting: September 22, 2016 at 7:00 pm at the Bourne Veteran’s Memorial Community Center.
24.27	Record	A Motion was made by W. Meier and seconded by R. Lavoie to adjourn the meeting. No discussion, voted unanimously.

Attachments: Agenda, Project Budget Status Report, Updated Roadshow Schedule, Updated FAQ, Updated Flyer, Updated BourneTV Interview Outline, Draft Committee Biographies, Total Project Budget Sheet, Powerpoint presentation

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: Peebles Elementary School Feasibility Study
 Prepared by: Joel Seeley
 Re: School Building Committee Meeting
 Location: Bourne Veterans Memorial Community Center,
 234 Main Street, Buzzards Bay, Massachusetts

Project No.: 15041
 Meeting Date: 9/8/2016
 Meeting No: 24
 Time: 7:00pm

Distribution: Attendees, (MF)

SIGNATURE	ATTENDEES	EMAIL	AFFILIATION
	James L. Potter	onsetjp@juno.com	Chairman, School Building Committee
	Peter J. Meier	pmeier@townofbourne.com	Bourne Board of Selectmen
	Christopher Hyldborg	chrish@alpha-1.com	Chairman, Bourne School Committee
	Natasha Scarpato	scarpato4@comcast.net	Bourne School Committee
	Donna Buckley	d.j.buckley23@gmail.com	Member-At-Large
	Richard A. Lavoie	Richl.Lavoie@gmail.com	Member, Bourne Finance Committee
	William Meier	Dusty22752@aol.com	Building Trade Expert
			Member-At-Large
	Frederick H. Howe	rickhowe9@gmail.com	Member-At-Large, Board of Health
	Steven M. Lamarche	slamarche@bourneps.org	Superintendent of Schools, BPS
	Edward S. Donoghue	EDonoghue@bourneps.org	Director of Business Services, BPS, MCPPO
	Thomas M. Guerino	tguerino@townofbourne.com	Town Administrator
			Director of Facilities, Town of Bourne
	Elizabeth A. Carpenito	ecarpenito@bourneps.org	Principal, BES
	Kathy Anderson	kanderson@bourneps.org	Elementary/Special Education Secretary
	Janey Norton	jnorton@bourneps.org	Principal, PES
	Kent Kovacs	kkovacs@flansburgh.com	Flansburgh Architects
	Betsy Farrell Garcia	bgarcia@flansburgh.com	Flansburgh Architects
	Joel Seeley	jseeley@smma.com	SMMA

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AGENDA

Project:	Peebles Elementary School Feasibility Study	Project No.:	15041
Re:	School Building Committee Meeting	Meeting Date:	9/8/2016
Meeting Location:	Bourne Veterans Memorial Community Center	Meeting Time:	7:00 PM
Prepared by:	Joel Seeley	Meeting No.:	24
Distribution:	Committee Members (MF)		

1. Call to Order
2. Approval of Minutes
3. Approval of Invoices and Commitments
4. Community Outreach Update
5. Design Update
6. Schedule and Cost Update
7. Vote to Submit Schematic Design Cost Estimate to MSBA
8. Old or New Business
9. Public Comments
10. Next Meeting – September 22, 2016 – Confirm additional meeting - September 15, 2016
11. Adjourn

TOTAL PROJECT BUDGET STATUS REPORT

ProPay Code	Description	Total Project Budget	Authorized Changes	Revised Total Budget	Total Committed	Budget Balance	% Comtd to Date	Actual Spent to Date	% Spent to Date	Projected Expenditure/Commitments	Balance to Spend
FEASIBILITY STUDY AGREEMENT											
0001-0000	OPM Feasibility Study/Schematic Design	\$ 140,000.00	\$ (15,000.00)	\$ 125,000.00	\$ 117,100.00	\$ 7,900.00	94%	\$ 68,000.00	58%	\$ 49,100.00	\$ 57,000.00
0002-0000	A/E Feasibility Study/Schematic Design	\$ 500,000.00	\$ (115,875.00)	\$ 384,125.00	\$ 384,125.00	\$ -	100%	\$ 264,375.00	69%	\$ 119,750.00	\$ 119,750.00
0003-0000	Environmental & Site	\$ 90,000.00	\$ 50,000.00	\$ 140,000.00	\$ 77,803.00	\$ 62,197.00	56%	\$ 65,164.00	84%	\$ 12,639.00	\$ 74,836.00
0004-0000	Other	\$ 20,000.00	\$ 80,875.00	\$ 100,875.00	\$ 29,797.13	\$ 71,077.87	30%	\$ 672.13	2%	\$ 29,125.00	\$ 100,202.87
	SUBTOTAL	\$ 750,000.00		\$ 750,000.00	\$ 608,825.13	\$ 141,174.87	81%	\$ 398,211.13	65%	\$ 210,614.00	\$ 351,788.87

Venue	Location	Date	Time	SBC Champion	SBC Attendees	Venue Contact	Presentation	Notes
Selectmen	Community Center	Tuesday, August 23, 2016	7:00PM	Jim Potter			Yes	Complete
Capital Outlay	Community Center	Wednesday, September 14, 2016	8:30AM	Jim Potter	?		Yes	
Finance Committee	Community Center	Monday, September 19, 2016	7:00PM	Rich Lavoie	RH,		Yes	
School Committee	BHS Media Center	Wednesday, October 5, 2016	6:30PM	Steve Lamarche	RH,		Yes	SMMA can not attend
Peebles ES Open House	Peebles ES	Thursday, August 25, 2016	4:00 PM	Janey Norton	?	Janey Norton	No, handouts only	Complete
Bournedale ES Open House	Bournedale ES	Thursday, August 25, 2016	4:00 PM	Liz Carpenito	?	Liz Carpenito	No, handouts only	Complete
Middle School Back to School Night	Middle School	Thursday, September 8, 2016	5:30 PM	Kathy Anderson	NS, KA	Melissa Ryan	No, handouts only	Need Flyers
BATV Interview	BATV	Thursday, September 15, 2016	2:00 PM	Joel Seeley	SL, CH, NS	Jenn McGrail	No moderator, individual presentations only	J.Seeley to send out updated agenda
Peebles ES Back to School Night	Peebles ES	Thursday, September 15, 2016	5:30 PM	Janey Norton	KA,	Janey Norton	No, handouts only	Need Flyers
Community Forum No. 9	Peebles ES	Tuesday, Septmber 20, 2016	6:00PM	Jim Potter	RH,	Janey Norton	Yes	
Bournedale ES Back to School Night	Bournedale ES	Thursday, September 22, 2016	5:30 PM	Liz Carpenito	KA,	Liz Carpenito	No, handouts only	Need Flyers
High School Teachers Conference	High School	Thursday, October 6, 2016	4:00 PM	Steve Lamarche	KA,	Amy Cetner	No, handouts only	Need Flyers
Bourne PTA	Peebles ES	Tuesday, Septmber 20, 2016	6:00PM	Steve Lamarche	?	?	Yes	
Rotary Club of Bourne/Sandwich	Upper Cape Cod Technical School	Thursday, September 8, 2016	7:40 AM	Chris Hyldburg	CH, PM, SL	Bob Dutch	Yes	Complete
Pocasset Village Association	Pocasset Community Center	Saturday, September 10, 2016	9:30AM	Liz Carpenito	RH,	?	Yes	
Cataumet Civic Association	?	?	?	Liz Carpenito	RH,	?	?	Need date/time
Sagamore Highlands Association	?	?	?	Liz Carpenito	RH,	?	?	Need date/time
Council on Aging	Community Center	Thursday, October 6, 2016	2:00 PM	Peter Meier	RH?	?	Yes	
Bourne Public Library	?	?	?	Steve Lamarche	?	?	?	Need date/time
Peebles Community Tour	?	?	?	Janey Norton	?	?	?	Need date/time
Town Meeting	BHS	Monday, October 17, 2016	7:00 PM	Jim Potter			Yes	
Community Meetings	tbd	tbd	tbd	?				To potentially occur between Town Meeting and Ballot Vote

Frequently Asked Questions

Q Why a grade 3-5 Peebles Elementary School?

A This option replaces the existing Peebles School with a new facility serving a single intermediate school for students in grades 3 through 5, keeping an elementary school on the Cape side of the canal as part of greater campus with the middle and high school. It relocates the fifth grade into an elementary school setting and provides new educational opportunities at Bourne Middle School. This option creates an equal educational experience among the elementary schools with a focused 3-5 educational program for all students through a more, streamlined curriculum with greater academic resources and additional collaboration opportunities within the school community including the unique opportunity for fifth grade students to take on leadership roles.

Q Why should the 5th grade be returned to the elementary school?

A Moving the fifth grade to the 3-5 school further eases student transition to middle school as students will have already integrated as a class and experienced the transition from the elementary school to the intermediate (3-5) school. Fifth grade students will take the school bus with students in their own age groups that will reduce exposure to behaviors of older students. Additionally, much of our curriculum matches the grade bands PK-2, 3-5 (or PreK-5) and 6-8 evident in the Massachusetts State Curriculum Frameworks

Q How long has the Feasibility Study been underway?

A The Feasibility Study commenced over 4 years ago in January 2012 with the submission of the Statement of Interest for the Peebles Elementary School to the Massachusetts School Building Authority (MSBA) by the Selectmen and School Committee. The Town and the MSBA executed an agreement for the Feasibility Study in February 2015 which has been overseen by the School Building Committee for the past 1 ½ years.

For more information go to:

Town Website:

<http://www.townofbourne.com/school-building-committee>

<http://www.BOGofbourne.weebly.com>

Project Email: sbc@townofbourne.com

Q Why not renovate instead?

A The Feasibility Study demonstrated that requirements for meeting the building code and the requirements for reimbursement of the Massachusetts School Building Authority (MSBA) would make a renovation/addition more costly than new construction due to the age and condition of the 62+ year old Peebles Elementary School.

Q Will it be longer to travel to school?

A There will be approximately 15 additional minutes to the current bus route duration for first and second graders that reside on the cape-side of the Canal and for third and fourth graders that reside off-cape..

Q What are the benefits of grade spans?

A While this is a shift from the current school configurations, there are potential benefits for all stakeholders of the Bourne Public Schools system. This option provides district-wide PK-2 at Bournedale, 3-5 at Peebles and 6-8 at BMS. By creating small grade span schools, each school is able to focus on one specific stage of child academic and social/emotional development. A building-wide concentration of attention to the academic, emotional, physical, and social needs associated with each level of students will positively enhance learning and growth.

Q Why not delay until the economy improves?

A The School District has been approved by the State for reimbursement now at 48.63% of eligible costs. Additionally, the MSBA is reimbursing the Town for 43.84% (\$328,800) of the \$750,000 cost of the feasibility study. If the project is delayed it will be removed from the State funding list with no assurance for any reimbursement in the future. If the MSBA were ever to reconsider a Peebles Elementary School project in the future, another feasibility study would be required and the Town would be responsible for paying for the study in totality with no reimbursement.

Q Is this the right time to build?

A Due to a slowly improving economy, borrowing costs are still at historic lows and, due to a very competitive building climate, construction costs remain low. These costs, however, are currently on the rise and a delay will increase project costs.

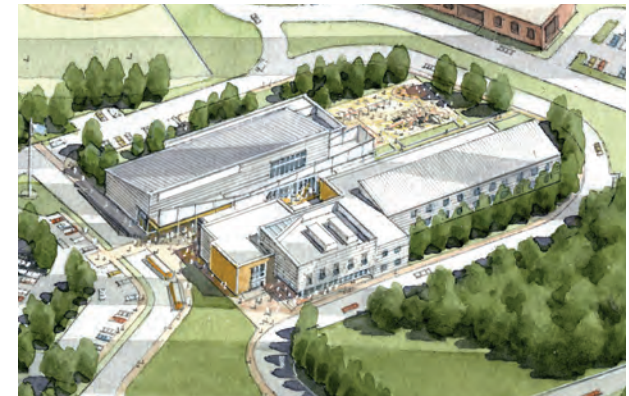
Fact Sheet

The Proposed New

Peebles Elementary School

Bourne, MA

September 08, 2016



The new, proposed state-approved 3-5 school will be a modern, state-of-the-art facility that will serve the Town for many years to come and features amenities such as...

- Larger classrooms, new learning commons, and gymnasium that conform to current State guidelines.
- Dedicated art, music, innovation studio, special education, and all other required educational spaces.
- Convenient community access and use of the gymnasium, cafeteria, and learning commons.
- Improved student safety: new building security system, access control system, fire alarm, and fire suppression system.
- 21st Century technology infrastructure.
- Numerous "green" features that will improve operational efficiency of the school such as occupancy sensors for lighting, an energy efficient displacement air system, and a building-wide energy management system.
- Improved air quality, lighting, and heat control.

Building for the Future

Deficiencies

The Peebles Elementary School is an aged facility requiring significant upkeep without long term educational benefits. There is a lack of educational spaces and many existing spaces do not conform to current State guidelines or meet 21st Century educational needs.

Bourne Residents voted to approve this Feasibility Study and seek a Grant from MSBA to mitigate these conditions at the October 27, 2014 Special Town Meeting.

- The antiquated facility impedes teaching and learning.
- Music, art, and science labs have inadequate spaces and equipment for the specialized programs taught. Many special education spaces are also too small.
- The core facilities (library, gym, and cafeteria) are undersized and require updates to ventilation air system
- The schools lack a modern security system, access control system, fire alarm, and fire suppression system.
- All of the old building systems (mechanical, electrical, and plumbing) are outdated, unreliable, inefficient, and have outlived their useful life. These systems now require constant repair and attention.
- Parking on the sites is limited and disorganized. The parent drop off and bus areas create an unsafe congested condition during pick up and drop off times.

Solution

The Peebles Elementary School is nearing the end of its educational and functional life. As a result of eighteen months of deliberating and planning with the Bourne community and Massachusetts School Building Authority, a vision emerged for the community of Bourne in its entirety, not just Bourne Public Schools. We are excited to present you a building that addresses community needs, as well as, a new vision for educating PreK-12 with grade span re-configuration enhancing the social, emotional and developmental needs of all children. In 2020, we will have the opportunity to strengthen our Bourne community by creating one common educational experience.

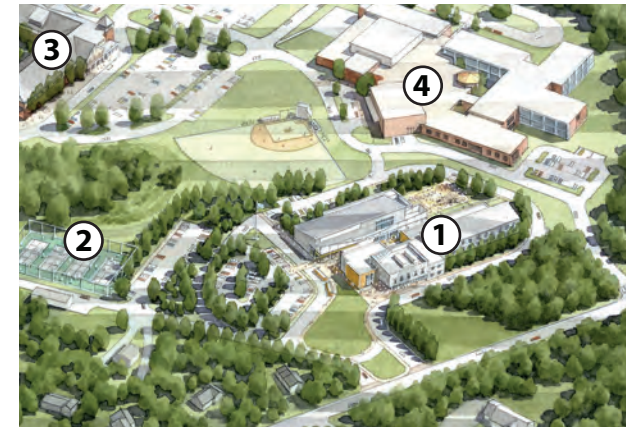
- Working with the Town and the Massachusetts School Building Authority (MSBA), the design team developed nine different options ranging from phased renovation of the existing Peebles ES and Bournedale ES schools to a completely new building.
- The best long-term solution converts Bournedale to a District-wide PK-2, constructs a new 72,680-sf, two-story building for District-wide grades 3-5 students, and returns the 5th grade to an elementary setting.
- New construction avoids the disruption to students inherent with a multi-phased renovation project
- The School Building Committee voted unanimously to proceed to the State with the Schematic Design and a total project budget of \$39.9 million.
- The State will reimburse the Town approximately \$15.23 million. The estimated project cost to the Town of Bourne is \$24.76 million.

Site Plan

The proposed new building will be located in front of the existing school and includes many new site amenities.

KEY:

- 1 New Peebles Elementary School
- 2 New Tennis Courts
- 3 Middle School
- 4 High School



- Increased parking spaces and a safer traffic flow with separate parent and bus loading zones.
- A new enclosed play area with new play equipment
- New tennis courts with associated parking
- Improved handicapped accessibility

Project Schedule

<input type="checkbox"/>	Sept. 20, 2016	Community Forum No.9
<input type="checkbox"/>	Oct. 17, 2016	Special Town Meeting
<input type="checkbox"/>	Nov. 04, 2016	MSBA Board Meeting
<input type="checkbox"/>	Dec. 06, 2016	Special Ballot Vote
<input type="checkbox"/>	Dec. 07, 2016	Commence Design Drawings
<input type="checkbox"/>	October 2017	Commence Bidding
<input type="checkbox"/>	November 2017	Commence Construction
<input type="checkbox"/>	August 2019	Open New Peebles School

“One community, one common educational experience.”



New Grades 3-5 Peebles Elementary School**BATV INTERVIEW OUTLINE**

August 19, 2016 (updated 9/1/16)

To be a total of 30 minutes

PART 1 - INTRODUCTION - Steve – 5 minutes

- Why was an SOI Submitted
- Town Meeting votes in 2014 for Feasibility Study
- Explanation of ALL three schools problems, i.e. Peebles, Bournedale and Middle School
- Thoughts on why addressing the three schools is educationally the right thing to do

PART 2 – WHAT IS THE DESIGN - Kent – 10 minutes

- What is the Peebles, Bournedale and Middle School Plan

PART 3 – WHAT IS THE BENEFIT TO THE STUDENTS AND COMMUNITY - Chris, Natasha – 10 minutes

- Thoughts on why the New Peebles will greatly benefit the students

PART 4 – WHAT IS THE COST AND SCHEDULE - Joel – 5 minutes

- When will the new School Open
- What is the cost to the Taxpayers
- How will the project remain on budget
- What is the MSBA and how are they funded

PART 5 – WHY IS SUPPORTING THE PROJECT THE RIGHT THING TO DO - Steve – 5 minutes

- Thoughts on why Town support is the right thing to do
- What if the vote fails

Updated: September 6, 2016

The new Peebles Elementary School FAQ's

1. Why a grade 3-5 Peebles Elementary School?

This option replaces the existing Peebles School with a new facility serving a single intermediate school for students in grades 3 through 5, keeping an elementary school on the Cape side of the canal as part of greater campus with the middle and high school. It relocates the fifth grade into an elementary school setting and provides new educational opportunities at Bourne Middle School. This option creates an equal educational experience among the elementary schools with a focused 3-5 educational program for all students through a more, streamlined curriculum with greater academic resources and additional collaboration opportunities within the school community including the unique opportunity for fifth grade students to take on leadership roles.

2. What will happen to the Bournedale School?

Creating a Pre-K-2 school will expand and enhance the early childhood program already in place. An enhanced early childhood program will include a universal kindergarten program available to all Bourne students. The existing Bournedale Elementary School provides educational spaces size appropriately for grades PK through 2. The school currently has an undersized gymnasium and limited Special Education spaces that are already more conducive for meeting the needs of K-2 students.

3. What will happen to the Middle School?

Creating a 6-8 middle school will allow teachers and staff to use the middle school in the way in which it was intended when built. Teachers and staff will more intentionally focus curriculum, programs, and activities to meet the unique needs of early adolescent learners.

4. Why should the 5th grade be returned to the elementary school?

Moving the fifth grade to the 3-5 school further eases student transition to middle school as students will have already integrated as a class and experienced the transition from the elementary school to the intermediate (3-5) school. Fifth grade students will take the school bus with students in their own age groups that will reduce exposure to behaviors of older students. Additionally, much of our curriculum matches the grade bands PK-2, 3-5 (or PreK-5) and 6-8 evident in the Massachusetts State Curriculum Frameworks.

5. What options have been studied?

Seven design alternatives were discussed and evaluated at 18 School Building Committee meetings, several Bourne Academic Leadership Team meetings, and 7 community forums over the last year and a half. The committee focused on the following criteria when evaluating the options: educational benefits, size of building, cost, minimal disruption during construction, community access, transportation, student transitions, and the geographical challenge of the Canal. The seven design alternatives explored were:

- Option 1A - New K-4 school (250 enrollment),
- Option 1G - Reno / Add K-4 school (250 enrollment)
- Option 2A - Reno / Add PK-4 school (725 enrollment)
- Option 3A - Reno / Add PK-4 school (885 enrollment)
- Option 4A - New K-5 school (410 enrollment)
- Option 4B - Reno / Add K-5 school (410 enrollment)
- **Option 5A - New 3-5 school (460 enrollment) This is the Preferred Alternative**

6. How long has the Feasibility Study been underway?

The Feasibility Study commenced over 4 years ago in January 2012 with the submission of the Statement of Interest for the Peebles Elementary School to the Massachusetts School Building Authority (MSBA) by the Selectmen and School Committee. The Town and the MSBA executed an agreement for the Feasibility Study in February 2015 which has been overseen by the School Building Committee for the past 1 ½ years.

7. What is the role of the Massachusetts School Building Authority (MSBA)?

The MSBA is the state authority that administers and funds a program of grants for Massachusetts school projects. The MSBA mandates a multi-step rigorous study and approval process encompassed within the Feasibility Study.

8. Why not renovate instead?

The Feasibility Study demonstrated that requirements for meeting the building code and the requirements for reimbursement of the Massachusetts School Building Authority (MSBA) would make a renovation/addition more costly than new construction due to the age and condition of the 62+ year old Peebles Elementary School.

9. Will it be longer to travel to school?

There will be approximately 15 additional minutes to the current bus route duration for first and second graders that reside on the cape-side of the Canal and for third and fourth graders that reside off-cape.

10. Will school start times change?

The Building Committee is reviewing several options to school start times. One option has the elementary schools maintain their current start time of 9:00am with the middle school starting 15 minutes earlier at 7:45am and the high school 25 minutes later at 7:40 am. The other options maintain the current start times. Final start times will be decided by the School Committee prior to the new school opening.

11. What are the benefits of grade spans?

While this is a shift from the current school configurations, there are potential benefits for all stakeholders of the Bourne Public Schools system. This option provides district-wide PK-2 at Bournedale, 3-5 at Peebles and 6-8 at BMS. By creating small grade span schools, each school is able to focus on one specific stage of child academic and social/emotional development. A building-wide concentration of attention to the academic, emotional, physical, and social needs associated with each level of students will positively enhance learning and growth.

12. Why not delay until the economy improves?

The School District has been approved by the State for reimbursement now at 48.63% of eligible costs. Additionally, the MSBA is reimbursing the Town for 43.84% (\$328,800) of the \$750,000 cost of the feasibility study. If the project is delayed it will be removed from the State funding list with no assurance for any reimbursement in the future. If the MSBA were ever to reconsider a Peebles Elementary School project in the future, another feasibility study would be required and the Town would be responsible for paying for the study in totality with no reimbursement.

13. Is it the right time to build?

Due to a slowly improving economy, borrowing costs are still at historic lows and, due to a very competitive building climate, construction costs remain low. These costs, however, are currently on the rise and a delay will increase project costs.

14. Can the new school option be reduced in size?

In order to provide the educational spaces needed and meet the MSBA requirements for reimbursement, the new school must be sized as it is in the new design.

15. What if the project is not approved by the Town?

The Town would lose over \$15 million from the State to resolve the deteriorating conditions of the 62 year old Peebles Elementary School. The Town would still have to spend over \$16 million in significant capital improvements over the next

several years without any educational benefit. One hundred percent of these costs would be paid by the Town.

16. If the new building doesn't pass, can we use the state money to just repair the existing building?

No, reimbursement from the MSBA is only intended for use on a building project that meets the MSBA requirements. As indicated above, the Town would have to spend over \$16 million in significant capital improvements over the next several years without any educational benefit and one hundred percent of those costs would be paid by the Town which could be as much as the town's share for a new building.

17. Will more teachers need to be hired because of the increased number of classrooms in the new building?

No, additional teachers would not be necessary for the new building.

18. What is the total project cost?

The total project cost is \$39.99 million dollars with an estimated cost to Bourne of \$24.76 million dollars after the MSBA grant.

19. What is included in the total project cost?

The total project cost estimate includes all construction costs - site work, playgrounds, and demolition of the existing school. It also includes new furniture and educational technology equipment, building fees, testing costs and any construction contingencies.

20. Will the MSBA share in the cost of the project?

Yes, the MSBA will provide approximately \$15.23 million dollars to the Town.

21. What is the tax impact?

The tax impact will be approximately \$0.45 /\$1,000 of assessed residential value. On an average home assessed at \$398,944 that is \$178.51 /year, which is equal to \$14.87 /month or \$0.49 /day.

22. When will the Town be voting to approve the project?

The Special Town Meeting is scheduled for October 17, 2016 to approve the funding for the project. The ballot vote is scheduled for December 6, 2016 to approve the exclusion of the costs from so called Proposition 2 ½.

23. What happens if the project is approved by the taxpayers?

The project is moved into the design development phase during which the design and drawings are further refined. This is followed by the construction documents phase when the construction bid documents are prepared by the architect. Construction is currently projected to start in November 2017 with an August 2019 occupancy date and final completion of the site work including demolition of the existing Peebles Elementary School in November of 2019.

24. Why can't the Town start construction earlier?

If the Town votes in December 2016 for the project to move forward, it takes approximately 10 months to complete the design development and construction documents phases. After that, there is a bid/award phase that requires an additional 2 months. This results in a November 2017 construction start.

25. Will ongoing use of Peebles Elementary be impacted during construction of the new school?

The distance between construction activity and the day-to-day functions of the current school is adequate to ensure safety and no disruption of the educational process. A fenced-off construction zone, with a dedicated construction vehicles access, will be constantly monitored for safety. The existing tennis courts will not be available during construction and will be replaced as part of this project.

26. Will the existing campus wastewater treatment facility have capacity for the new project?

The existing wastewater treatment facility located on the school campus has surplus capacity to handle the anticipated load of the new school project.

27. Will there be any special foundations required?

No special foundations are required for this project. The engineers have reviewed the soil data and determined that standard spread footings will satisfy the design.

For questions and comments, please email: sbc@townofbourne.com

For additional information, please visit the project website at:
<http://www.townofbourne.com/school-building-committee> ⇒ QuickLink:
Peebles FAQ Sheet.

Town of Bourne
Peebles Elementary School Project
School Building Committee Member Biographies
September 8, 2016

James L. Potter

I've been a resident of Bourne for 8 years, prior to that a resident of Onset for 30 yrs. This is my first appointment to a committee in Bourne, however in Wareham, I served on many committees and boards, and also as a Selectman.

I represent a citizen-at-large, 'in the construction trade seat', on the Committee. I serve as the Committee Chairman. Also, as a local parent, my oldest graduated Bourne High School in 2015. I currently have one child in Bourne High School, and two at Bournedale Elementary School.

The Peebles project is the culmination of the Bourne community's desire to replace an aging facility that has served the Town well for over 60 years. The desire to replace the Peebles School precedes my time here in Bourne. Finally selected as a grant recipient in the Mass School Building Authority grant-program, the Town now has an opportunity to provide a new school that Bourne can afford, subsidized with State grant-funding that should last the Town another 60 years. The new Peebles School design, as a grades 3-5 elementary school, will actually allow the other existing schools to maximize their own potential from the re-districting of the grade spans. It is my desire to find the balance, where affordability and where the Town's original mission to replace the school, meet.

Peter J. Meier

Resident of Bourne for 45 years
Board of Selectmen representative

Elected to the Bourne Planning Board and Bourne Housing Authority from 1996-2011.
Bourne Board of Selectmen and Sewer Commissioners elected since 2011.
Appointed to the Bournedale Elementary School Building Committee in 2007.
And various other communities from 1996 - present.

It is important for the students and faculty of Bourne to have a first class facility. By having a 21st century learning environment it will help our students to succeed. We will also have an efficient physical plant. We will save money on electric and heating costs and conserve resources at the same time.

Christopher Hyldburg

Resident of Bourne for 22 years.
Parent, School Committee member 4 years, Chair 2 years, Facility Sub Committee 4 years.

It's a rare opportunity when a single building can affect an entire district for the better. The Bourne Peebles project is just such a case. Having diverted a frustrating amount of educational tax dollars to maintain an aging school, it was clear the Peebles School replacement was a priority for our district, our town. As function of our Massachusetts School Building Association partnership, Bourne entered into a lengthy Feasibility study- a process that truly opened my eyes to the potential of a bright new horizon for Bourne education. A new school is far more than "square footage per child"; its re-aligning grades for a better learning experience for all students- Pre K-12th grade (and beyond). It is a consistent, concerted effort focusing the District's efforts on each student at each grade level.

One student, one grade, one district. The Bourne rule of One.

Town of Bourne
Peebles Elementary School Project
School Building Committee Member Biographies
September 8, 2016

Natasha Scarpato

I have been a resident of Bourne since 2007.

I am a parent of three children here in Bourne, one of whom is currently attending Peebles Elementary School. I am also a newly appointed member of the Bourne School Committee.

The Peebles Project is important because our children need a safe, modern, up-to-date school that can keep up with today's technology. The current situation at Peebles, while very warm and inviting, lacks many simple staples such as a standalone library and adequate ventilation. This project will also allow all of the schools in our town to become district-wide buildings where children can remain together year after year, and teachers can have the opportunity to collaborate with all other teachers in their respective grades. I hope to see this building become a symbol of the hard work and dedication put forth by the members of this committee, as well as the members of the community who have been asking for a replacement for the outdated Peebles School.

Donna Buckley

I have been a resident of Bourne for about fifteen years, have been a teacher in Bourne for over twenty years, and currently teach fourth grade at Peebles School.

I am well aware of the questionable conditions our students, staff, and visitors experience at Peebles School each day. The Maintenance Department, school custodians, and teachers work continuously to keep the school safe through a never-ending and costly routine of repairing, replacing, and/or "making do," with whatever the day's issue may be. Unfortunately, neither the careful attention to maintenance nor the colorful, wonderfully creative bulletin boards and lessons created by teachers, all earnestly carried out in a valiant attempt to disguise the shortcomings of this aged building, can hide the cold winter air seeping through the large single-pane windows, the (still-monitored) areas of asbestos which remain after the large scale asbestos-removal project of a few years ago, the woefully inadequate heating system which delivers widely varying temperatures to different sections of the school, or the fact that Music classes are held in a tiled room labeled "Boys Locker Room," and the school library is seriously lacking in both resources and location.

The students, and in fact, all residents, of Bourne deserve a fully accessible school that offers the safety of modern construction, the endless opportunities for learning and exploration offered by cutting edge technology, and a media center which harbors a wealth of literary and informational resources.

Richard Lavoie

Resident of Bourne since 1976

Presently serve on the Town Finance Committee and represent the Finance Committee on the School Building Committee.

Previously, I served on the School Committee for 12 years; three years as Chair. During my tenure on the School Committee, as well as Vice Chair of the Bournedale School Building Committee; we had an assessment of Peebles complex by construction professionals; it became clear that the building was at the end of its life; was not handicapped accessible and that the cost of repairs would likely meet or exceed the cost of new construction. I have been working in one capacity or another to work towards the replacement of this building.

Town of Bourne
Peebles Elementary School Project
School Building Committee Member Biographies
September 8, 2016

William "Dusty" Meier

Resident of Bourne since 1952. 64 yrs.
Lifelong resident of Bourne

At large member of the Bourne School Building Committee.

Presently also on the Police Study Committee and the Public Works Facility Committee.

Vice Chairman of the Bourne Veterans Memorial Community Building Committee.

As a former student of the James F Peebles Elementary School I have noticed that the building still haven't changed significantly since I was a student.

Frederick H. Howe

I have been a resident of Bourne since 1979, and have a son who graduated from Bourne High School.

I have served the town in many capacities over the years, including Conservation Commission, Board of Health, Finance Committee, and School Committee (3 years as chair). I have also served on the Middle School and Bournedale Building Committees.

The replacement of Peebles is the third part of a school building program first proposed in 1995. The first two parts--the Middle School and Bournedale Elementary--are completed. It is extremely important that we replace the Peebles building at this time as it has outlived its effective usefulness. The cost to maintain a level of safety for the students and staff now exceeds the cost of a new building. The state grant makes the project very time-sensitive.

Steven M. Lamarche

My wife and I have been residents of Bourne for nearly 10 years and we have two children, our daughter who attends Peebles Elementary School and our son who attends the Bourne Middle School.

I am privileged to be entering my seventh year as the Superintendent of Schools.

As the Superintendent I have the distinct pleasure of advocating for the learning and teaching of the Community's most precious resource, children. Simultaneously, I have the responsibility to be a good steward of the town's finances. A straightforward approach to both has established a long view for the children and the future of the Community. The Bourne Community is at a critical point regarding the longevity of the Peebles Elementary School - should the Community spend good money on a building that has no future or provide the same opportunity to the children today that was provided to the children of the 50's, 60's, 70's, 80's, 90's and 2000's?

Edward S. Donoghue

Biography text place holder

Thomas M. Guerino

Biography text place holder

Town of Bourne
Peebles Elementary School Project
School Building Committee Member Biographies
September 8, 2016

Elizabeth A. Carpenito

I moved to Pocasset in 2008 with my husband, who is a lifelong resident of Bourne. We also have two children, one of which attends first grade at Peebles Elementary School, and our Kindergartner who attends Bournedale Elementary School.

My entire educational career has been in the Bourne Public Schools. Since 2001, I have been a fourth grade teacher at Peebles, an Assistant Principal at both Peebles and Bournedale and currently serve as Principal at Bournedale Elementary School.

I have a strongly vested interest in the School Building Committee as an educator, parent and active member in the Bourne community. Having worked in both buildings, I truly understand the tremendous challenges it is taking to maintain Peebles, and the opportunities Bournedale has brought to the students, families and community members of Bourne. For these reasons, I wanted to be a voice in the final proposal brought forth to our community.

Kathy Anderson

I have been a resident of Bourne for 30 years.

I have two sons who have graduated from Bourne schools and nieces and a nephew who currently attend.

As an Administrative Assistant for the Bourne School Department for the past 16 years I have had the pleasure of working at Peebles Elementary and Bournedale Elementary Schools and currently work in both buildings. Although there is a very special place in my heart for Peebles Elementary School, it is where my children went to school and where I have spent the majority of my years employed by Bourne Public Schools, I see that Peebles Elementary School is at a disadvantage due to its age. I had the opportunity to open Bournedale Elementary School and experience the benefits of an up to date educational facility. It is undoubtedly safer, more efficient and cost effective. The building is much better suited to providing our students and staff an educational environment that meets the demands of the current times. I would love to see all of the students in Bourne share a common educational experience. As a committee member I am pleased and proud of our progress. We have spent a great deal of time listening to the needs of our community and the development of the grade span configuration is a direct result of the feedback we have received. Bourne is a community that cares about its future and is vested in our students. I am convinced that "one community, one educational experience" will serve our town well.

Total Project Budget

Bourne, MA
Peebles Elementary School

School Building Committee Reviewed on:

DRAFT - 9/6/16

Total Project Budget: All costs associated with the project are subject to 963 CMR 2.16(5)	Estimated Budget	Scope Items Excluded from the Estimated Basis of Maximum Facilities Grant or Otherwise Ineligible	Estimated Basis of Maximum Total Facilities Grant ¹	Estimated Maximum Total Facilities Grant ¹
Feasibility Study Agreement				
OPM Feasibility Study	\$125,000	\$0	\$125,000	
A&E Feasibility Study	\$365,000	\$0	\$365,000	
Environmental & Site	\$140,000	\$0	\$140,000	
Other	\$120,000	\$0	\$120,000	
Feasibility Study Agreement Subtotal	\$750,000	\$0	\$750,000	\$364,725
Administration				
Legal Fees	\$50,000	\$50,000	\$0	\$0
Owner's Project Manager				
Design Development	\$50,000	\$0	\$50,000	
Construction Contract Documents	\$90,000	\$0	\$90,000	
Bidding	\$60,000	\$0	\$60,000	
Construction Contract Administration	\$816,000	\$112,377	\$703,623	
Closeout	\$62,252	\$0	\$62,252	
Extra Services	\$40,000	\$0	\$40,000	
Reimbursable & Other Services	\$15,000	\$0	\$15,000	
Cost Estimates	\$50,000	\$0	\$50,000	
Advertising	\$5,000	\$0	\$5,000	
Permitting	\$50,000	\$0	\$50,000	
Owner's Insurance	\$20,000	\$0	\$20,000	
Other Administrative Costs	\$20,000	\$0	\$20,000	
Administration Subtotal	\$1,328,252	\$162,377	\$1,165,875	\$566,965
Architecture and Engineering				
Basic Services		\$0		
Design Development	\$530,000	\$0	\$530,000	
Construction Contract Documents	\$1,060,000	\$0	\$1,060,000	
Bidding	\$130,000	\$0	\$130,000	
Construction Contract Administration	\$874,000	\$0	\$874,000	
Closeout	\$157,787	\$0	\$157,787	
Other Basic Services	\$0	\$0	\$0	
Basic Services Subtotal	\$2,751,787	\$0	\$2,751,787	
Reimbursable Services				
Construction Testing	\$40,000	\$0	\$40,000	
Printing (over minimum)	\$20,000	\$0	\$20,000	
Other Reimbursable Costs	\$100,000	\$0	\$100,000	
Hazardous Materials	\$100,000	\$0	\$100,000	
Geotech & Geo-Env.	\$80,000	\$0	\$80,000	
Site Survey	\$60,000	\$0	\$60,000	
Wetlands	\$5,000	\$0	\$5,000	
Traffic Studies	\$40,000	\$0	\$40,000	
Architectural/Engineering Subtotal	\$3,196,787	\$0	\$3,196,787	\$1,554,598
CM & Risk Preconstruction Services				
Pre-Construction Services	\$0	\$0	\$0	\$0
Site Acquisition				
Land / Building Purchase	\$0	\$0	\$0	
Appraisal Fees	\$0	\$0	\$0	
Recording fees	\$0	\$0	\$0	
Site Acquisition Subtotal	\$0	\$0	\$0	\$0
Construction Costs				
SUBSTRUCTURE				
Foundations	\$19,296,443	\$0		
Basement Construction	\$0	\$0		
SHELL				
SuperStructure	\$0	\$0		
Exterior Closure	\$0	\$0		
Exterior Walls	\$0	\$0		
Exterior Windows	\$0	\$0		
Exterior Doors	\$0	\$0		
Roofing	\$0	\$0		
INTERIORS				
Interior Construction	\$0	\$0		
Staircases	\$0	\$0		
Interior Finishes	\$0	\$0		
SERVICES				
Conveying Systems	\$0	\$0		
Plumbing	\$0	\$0		
HVAC	\$0	\$0		
Fire Protection	\$0	\$0		
Electrical	\$0	\$0		
EQUIPMENT & FURNISHINGS				
Equipment	\$0	\$0		
Furnishings	\$0	\$0		
SPECIAL CONSTRUCTION & DEMOLITION				
Special Construction	\$0	\$0		
Existing Building Demolition	\$357,500	\$0		
In-Bldg. Hazardous Material Abatement	\$692,100	\$0		
Asbestos Cont'g Floor Mat'l Abatement	\$80,000	\$80,000		
Other Hazardous Material Abatement	\$0	\$0		
BUILDING SITEWORK				
Site Preparation	\$3,942,571	\$0		
Site Improvements	\$0	\$0		

Total Project Budget

**Bourne, MA
Peebles Elementary School**

School Building Committee Reviewed on:

DRAFT - 9/6/16

Total Project Budget: All costs associated with the project are subject to 963 CMR 2.16(5)	Estimated Budget	Scope Items Excluded from the Estimated Basis of Maximum Facilities Grant or Otherwise Ineligible	Estimated Basis of Maximum Total Facilities Grant¹	Estimated Maximum Total Facilities Grant¹
Site Civil / Mechanical Utilities	\$0	\$0		
Site Electrical Utilities	\$0	\$0		
Other Site Construction	\$0	\$0		
Scope Excluded Site Cost		\$2,398,856		
Construction Trades Subtotal	\$24,368,614	\$2,478,856		
Contingencies (Design and Pricing)	\$2,436,861	\$247,886		
D/B/B Sub-Contractor Bonds	\$348,167	\$35,417		
D/B/B Insurance	\$320,313	\$32,583		
D/B/B General Conditions	\$1,949,733	\$198,333		
D/B/B Overhead & Profit	\$696,333	\$70,833		
GMP Insurance		\$0		
GMP Fee		\$0		
GMP Contingency		\$0		
Escalation to Mid-Point of Construction	\$1,047,850	\$106,591		
Overall Excluded Construction Cost		\$3,978,756		
Construction Budget	\$31,167,871	\$7,149,255	\$24,018,616	\$11,680,253
Alternates				
Ineligible Work Included in the Base Project	\$0	\$0	\$0	
Alternates Included in the Total Project Budget	\$0	\$0	\$0	
Alternates Excluded from the Total Project Budget	\$0	\$0	\$0	
Subtotal to be Included in Total Project Budget	\$0	\$0	\$0	\$0
Miscellaneous Project Costs				
Utility Company Fees	\$84,000	\$0	\$84,000	
Testing Services	\$100,000	\$0	\$100,000	
Swing Space / Modulare		\$0	\$0	
Other Project Costs (Mailing & Moving)	\$60,000	\$60,000	\$0	
Misc. Project Costs Subtotal	\$244,000	\$60,000	\$184,000	\$89,479
Furnishings and Equipment				
Furnishings	\$690,000	\$138,000	\$552,000	
Equipment	\$690,000	\$138,000	\$552,000	
Computer Equipment	\$0	\$0	\$0	
FF&E Subtotal	\$1,380,000	\$276,000	\$1,104,000	\$536,875
Soft Costs that exceed 20% of Construction Cost		\$167,088		
Project Budget	\$38,066,910	\$7,814,720	\$30,419,278	\$14,792,895

Board Authorization	
Design Enrollment	460
Total Building Gross Floor Area (GSF)	72,680
Total Project Budget (excluding Contingencies)	\$38,066,910
Scope Items Excluded or Otherwise Ineligible	\$7,814,720
Third Party Funding (Ineligible)	\$0
Estimated Basis of Maximum Total Facilities Grant ¹	\$30,252,190
Reimbursement Rate	48.63%
Est. Max. Total Facilities Grant (before recovery) ¹	\$14,711,640
Cost Recovery ²	\$0
Estimated Maximum Total Facilities Grant ¹	\$14,711,640

45.32 Reimbursement Rate Before Incentive Points
3.31 Total Incentive Points
48.63% MSBA Reimbursement Rate

NOTES

This template was prepared by the MSBA as a tool to assist Districts and consultants in understanding MSBA policies and practices regarding potential impact on the MSBA's calculation of a potential Basis of Maximum Total Facilities Grant and potential Total Maximum Facilities Grant. This template does not contain a final, exhaustive list of all evaluations which the MSBA may use in determining whether items are eligible for reimbursement by the MSBA. The MSBA will perform an independent analysis based on a review of information and estimates provided by the District for the proposed school project that may or may not agree with the estimates generated by the District using this template.

1. Does not include any potentially eligible contingency funds and is subject to review and audit by the MSBA.

Construction Contingency ³	\$1,558,394
Ineligible Construction Contingency ³	\$1,246,715
"Potentially Eligible" Construction Contingency ³	\$311,679
Owner's Contingency ³	\$623,357
Ineligible Owner's Contingency ³	\$0
"Potentially Eligible" Owner's Contingency ³	\$623,357
Total Potentially Eligible Contingency ³	\$935,036
Reimbursement Rate	48.63%
Potential Additional Contingency Grant Funds ³	\$454,708
Maximum Total Facilities Grant	\$15,166,348
Total Project Budget	\$40,248,661

2. The proposed demolition of the _____ School is expected to result in the MSBA recovering a portion of state funds previously paid to the District for the _____ project at the existing facilities completed in _____. The MSBA will perform an independent analysis based on a review of information and estimates provided by the District for the proposed school project that may or may not agree with the estimated cost recovery generated by the District and its consultants using this template.

3. Pursuant to Section 3.20 of the Project Funding Agreement and the applicable policies and guidelines of the Authority, any project costs associated with the reallocation or transfer of funds from either the Owner's contingency or the Construction contingency to other budget line items shall be subject to review by the Authority to determine whether any such costs are eligible for reimbursement by the Authority. All costs are subject to review and audit by the MSBA.



Schematic Design Estimate

**Bourne Elementary Schools
New Construction**

Bourne, MA

PM&C LLC
20 Downer Avenue
Hingham, MA 02043
(T) 781-740-8007
(F) 781-740-1012

Prepared for:
Flansburgh Architects

September 6, 2016



Bourne Elementary Schools
 New Construction
 Bourne, MA

06-Sep-16

Schematic Design Estimate

MAIN CONSTRUCTION COST SUMMARY

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
NEW SCHOOL BUILDING				
DEMOLISH EXISTING BUILDING		55,000	\$6.50	\$357,500
NEW BUILDING		72,670	\$265.54	\$19,296,443
REMOVE HAZARDOUS MATERIALS - Allowance				\$772,100
SITework				\$3,942,571
SUB-TOTAL	Oct-17	72,670	\$335.33	\$24,368,614
ESCALATION TO START - (assumed 4% PA)	4.3%			\$1,047,850
DESIGN AND PRICING CONTINGENCY	10%			\$2,436,861
SUB-TOTAL	Oct-17	72,670	\$383.29	\$27,853,325
GENERAL CONDITIONS	7.00%			\$1,949,733
GENERAL REQUIREMENTS				Incl
BONDS	1.25%			\$348,167
INSURANCE	1.15%			\$320,313
PERMIT				NIC
OVERHEAD AND FEE	2.5%			\$696,333
TOTAL OF ALL CONSTRUCTION	Oct-17	72,670	\$428.90	\$31,167,871

VE LIST:

1. Change straight granite curb to precast	DEDUCT	(\$86,016)
2. ADD interconnection doors in classrooms	ADD	\$24,576
3. ADD classrooms sinks	ADD	\$134,400
4. ADD classrooms upper cabinets	ADD	\$57,165
5. Increase Em Gen from 150 KW to 250 KW	ADD	\$25,600
6. DELETE site sign	DEDUCT	(\$32,000)
7. DELETE decorative metal screen	DEDUCT	(\$79,488)
8. DELETE academic wing sloped roof	DEDUCT	(\$102,400)



Bourne Elementary Schools
New Construction
Bourne, MA

06-Sep-16

Schematic Design Estimate

This Schematic Design cost estimate was produced from drawings, outline specifications and other documentation prepared by Flansburgh Architects and their design team dated 19th August 2016. 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, General Contractor's overhead, fee and design contingency. Cost escalation assumes start dates indicated.

Bidding conditions are expected to be public bidding under Chapter 149 of the Massachusetts General Laws to pre-qualified general contractors, and pre-qualified sub-contractors, 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



<i>BUILDING SYSTEM</i>	<i>SUB-TOTAL</i>	<i>TOTAL</i>	<i>\$/SF</i>	<i>%</i>
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NEW ELEMENTARY SCHOOL

A10 FOUNDATIONS

A1010	Standard Foundations	\$838,581		
A1020	Special Foundations	\$0		
A1030	Lowest Floor Construction	\$564,243	\$1,402,824	\$19.30 7.3%

A20 BASEMENT CONSTRUCTION

A2010	Basement Excavation	\$0		
A2020	Basement Walls	\$0	\$0	\$0.00 0.0%

B10 SUPERSTRUCTURE

B1010	Upper Floor Construction	\$887,522		
B1020	Roof Construction	\$1,298,332	\$2,185,854	\$30.08 11.3%

B20 EXTERIOR CLOSURE

B2010	Exterior Walls	\$2,982,139		
B2020	Windows	\$807,041		
B2030	Exterior Doors	\$81,398	\$3,870,578	\$53.26 20.1%

B30 ROOFING

B3010	Roof Coverings	\$1,245,304		
B3020	Roof Openings	\$45,660	\$1,290,964	\$17.76 6.7%

C10 INTERIOR CONSTRUCTION

C1010	Partitions	\$1,254,401		
C1020	Interior Doors	\$319,740		
C1030	Specialties/Millwork	\$492,059	\$2,066,200	\$28.43 10.7%

C20 STAIRCASES

C2010	Stair Construction	\$99,000		
C2020	Stair Finishes	\$20,550	\$119,550	\$1.65 0.6%

C30 INTERIOR FINISHES

C3010	Wall Finishes	\$309,914		
C3020	Floor Finishes	\$473,293		
C3030	Ceiling Finishes	\$431,402	\$1,214,609	\$16.71 6.3%

D10 CONVEYING SYSTEMS

D1010	Elevator	\$100,000	\$100,000	\$1.38 0.5%
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D20 PLUMBING

D20	Plumbing	\$868,879	\$868,879	\$11.96 4.5%
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Bourne Elementary Schools
 New Construction
 Bourne, MA

06-Sep-16

Schematic Design Estimate

GFA 72,670

CONSTRUCTION COST SUMMARY					
<i>BUILDING SYSTEM</i>	<i>SUB-TOTAL</i>	<i>TOTAL</i>	<i>\$/SF</i>	<i>%</i>	

NEW ELEMENTARY SCHOOL

D30	HVAC				
	D30 HVAC	\$2,769,544	\$2,769,544	\$38.11	14.4%
D40	FIRE PROTECTION				
	D40 Fire Protection	\$265,275	\$265,275	\$3.65	1.4%
D50	ELECTRICAL				
	D5010 Complete System	\$2,495,949	\$2,495,949	\$34.35	12.9%
E10	EQUIPMENT				
	E10 Equipment	\$396,100	\$396,100	\$5.45	2.1%
E20	FURNISHINGS				
	E2010 Fixed Furnishings	\$250,117			
	E2020 Movable Furnishings	NIC	\$250,117	\$3.44	1.3%
F10	SPECIAL CONSTRUCTION				
	F10 Special Construction	\$0	\$0	\$0.00	0.0%
F20	HAZMAT REMOVALS				
	F2010 Building Elements Demolition	\$0			
	F2020 Hazardous Components Abatement	\$0	\$0	\$0.00	0.0%

TOTAL DIRECT COST (Trade Costs)	\$19,296,443	\$265.54	100.0%
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Schematic Design Estimate

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW ELEMENTARY SCHOOL							
GROSS FLOOR AREA CALCULATION							
	First Floor				48,073		
	Second Floor				24,597		
TOTAL GROSS FLOOR AREA (GFA)					72,670	sf	
A10 FOUNDATIONS							
A1010	STANDARD FOUNDATIONS						
	<u>Strip footings - 3'-0" x 1'-0"</u>	921	cy		-		
	Excavation	2,086	cy	12.00	25,032		
	Store on site for reuse	2,086	cy	14.00	29,204		
	Backfill with existing	1,898	cy	9.00	17,082		
	Formwork	3,218	sf	11.00	35,398		
	Re-bar, 10#/lf	16,090	lbs	1.20	19,308		
	Concrete material; 3,000 psi	188	cy	125.00	23,500		
	Placing concrete	188	cy	55.00	10,340		
	<u>Foundation walls at exterior - 15" thick</u>						
	Formwork	12,872	sf	14.00	180,208		
	Re-bar, 4#/sf	25,744	lbs	1.20	30,893		
	Concrete material; 4,000 psi	313	cy	135.00	42,255		
	Placing concrete	313	cy	65.00	20,345		
	Dampproofing foundation wall and footing	9,654	sf	1.90	NIC		
	Insulation to foundation walls; 2" thick	6,436	sf	2.50	16,090		
	Form shelf	1,609	lf	8.00	12,872		
	<u>Thickened slab at interior load bearing walls</u>						
	Excavation	157	cy	12.00	1,884		
	Store on site for reuse	157	cy	14.00	2,198		
	Backfill with existing	143	cy	9.00	1,287		
	Formwork	242	sf	10.00	2,420		
	Re-bar, 10#/lf	1,210	lbs	1.20	1,452		
	Concrete material; 3,000 psi	14	cy	125.00	1,750		
	Placing concrete	14	cy	55.00	770		
	<u>Exterior column footings, typical, 6' x 6' x 1'-6"</u>						
	Excavation	881	cy	15.00	13,215		
	Store on site for reuse	881	cy	14.00	12,334		
	Backfill with existing	723	cy	9.00	6,507		
	Formwork	2,700	sf	10.00	27,000		
	Re-bar, 150/cy	23,700	lbs	1.20	28,440		
	Concrete material; 3,000 psi	158	cy	125.00	19,750		
	Placing concrete	158	cy	55.00	8,690		
	Set anchor bolts grout plates	75	ea	150.00	11,250		
	<u>Interior column footings, typical, 8' x 8' x 2'-0"</u>						
	Excavation	923	cy	15.00	13,845		
	Store on site for reuse	923	cy	14.00	12,922		
	Backfill with new fill	675	cy	30.00	20,250		
	Formwork	3,640	sf	10.00	36,400		
	Re-bar, 150/cy	9,750	lbs	1.20	11,700		
	Concrete material; 3,000 psi	248	cy	125.00	31,000		
	Placing concrete	248	cy	55.00	13,640		
	Set anchor bolts grout plates	65	ea	150.00	9,750		
	Perimeter drainage system per geotech	1,609	lf	18.00	NIC		
	Cut and dispose on site for building cuts	7,300	cy	12.00	87,600		
	SUBTOTAL					838,581	



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
NEW ELEMENTARY SCHOOL								
59	A1020 SPECIAL FOUNDATIONS							
60	No Work in this section							
61	SUBTOTAL							
62								
63	A1030 LOWEST FLOOR CONSTRUCTION							
64	<u>New Slab on grade, 5" thick</u>							
65	Structural gravel fill, 8"	920	cy	34.00	31,280			
66	Base course, 8" gravel	1,188	cy	38.00	45,144			
67	Rigid insulation	48,073	sf	2.25	108,164			
68	Vapor barrier	48,073	sf	0.75	36,055			
69	Under slab drainage -allow	48,073	sf	2.50	NIC			
70	Mesh reinforcing 15% lap	55,284	sf	0.80	44,227			
71	Concrete - 5" thick	785	cy	125.00	98,125			
72	Placing concrete	785	cy	45.00	35,325			
73	Finishing and curing concrete	48,073	sf	1.25	60,091			
74	Control joints - saw cut	48,073	sf	0.10	4,807			
75	Barrier one at slab	785	cy	65.00	51,025			
76	<u>Miscellaneous</u>							
77	New Elevator pits	1	ea	25,000.00	25,000			
78	New loading dock - allow	1	ls	20,000.00	20,000			
79	Equipment pads - allow	1	ls	5,000.00	5,000			
80	SUBTOTAL					564,243		
81								
82	TOTAL - FOUNDATIONS							\$1,402,824
83								
84								
85	A20 BASEMENT CONSTRUCTION							
86								
87	A2010 BASEMENT EXCAVATION							
88	No items in this section							
89	SUBTOTAL							
90								
91	A2020 BASEMENT WALLS							
92	No items in this section							
93	SUBTOTAL							
94								
95	TOTAL - BASEMENT CONSTRUCTION							
96								
97								
98	B10 SUPERSTRUCTURE							
99								
100	B1010 FLOOR CONSTRUCTION							
101	<u>Floor Structure - Steel:</u>							
102	Steel beams and columns; 13/SF	160	tns	3,500.00	560,000			
103	Shear studs	4,919	ea	2.50	12,298			
104	<u>Floor Structure</u>							
105	2" Metal floor Deck	24,597	sf	4.20	103,307			
106	WWF reinforcement	28,287	sf	0.80	22,630			
107	Concrete Fill to metal deck; 5" normal weight	392	cy	125.00	49,000			
108	Place and finish concrete	24,597	sf	2.00	49,194			
109	Misc. perimeter angles	1,609	lf	25.00	40,225			
110	<u>Miscellaneous</u>							
111	Barrier one at slab	392	cy	65.00	25,480			
112	Fire proofing allowance	1	ls	15,000.00	15,000			
113	Fire proofing to columns and beams	24,597	sf	2.90	NIC			
114	Ramp construction	155	sf	2.50	388			
115	Fire stopping floors	2	flrs	5,000.00	10,000			



Schematic Design Estimate

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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NEW ELEMENTARY SCHOOL

116 SUBTOTAL 887,522

117

118 **B1020 ROOF CONSTRUCTION**

119 Roof Structure - Steel:

120 Steel beams/Joists; 12#/SF 276 tns 3,500.00 966,000

121 Roof Structure

122 1-1/2" Metal galvanized roof deck, 18 Ga. 37,601 sf 3.40 127,843

123 Acoustic deck at gym, 3", type NA 10,472 sf 7.50 78,540

124 Roof Structure @ Mech Equipment/Low roof

125 WWF reinforcement 9,669 sf 0.80 7,735

126 Concrete Fill to metal deck; 5 1/4" Light weight 134 cy 170.00 22,780

127 Place and finish concrete 8,408 sf 3.00 25,224

128 Miscellaneous

129 05500 Canopy framing - allow 1,507 sf 30.00 45,210

130 05500 Roof screen framing - allow 1,000 sf 20.00 20,000

131 Fire proofing allowance 1 ls 5,000.00 5,000

132 Fire proofing to columns, beams and deck 48,073 sf 3.25 NIC

133 SUBTOTAL 1,298,332

134

135 **TOTAL - SUPERSTRUCTURE \$2,185,854**

136

137

138 **B20 EXTERIOR CLOSURE**

139

140 **B2010 EXTERIOR WALLS**

141 Interior skin 41,729 sf

142 05400 8" metal stud backup 29,428 sf 7.00 205,996

143 07210 Batt insulation in stud 29,428 sf 2.25 66,213

144 2 1/2" Insulation, Roxul 29,428 sf 3.00 88,284

145 07150 Air barrier 29,428 sf 6.00 176,568

146 07150 Air barrier/flashing at windows 1,417 lf 7.00 9,919

147 06100 Gypsum Sheathing 29,428 sf 2.75 80,927

148 09250 Drywall lining to interior face of stud backup 29,428 sf 3.00 88,284

149 09250 Relieving angle/lintels at openings in masonry 320 lf 55.00 17,600

150 09250 Miscellaneous metals at masonry 31,770 sf 1.00 31,770

151 05500 Painted metal guardrail at green roof, 2'-9" high 44 lf 250.00 11,000

152 Interior skin @ Gym and stage

153 05400 8" CMU backup 12,301 sf 22.00 270,622

154 07210 2 1/2" Insulation, Roxul 12,301 sf 3.00 36,903

155 07150 Air barrier 12,301 sf 6.00 73,806

156 06100 Premium for GF block at gym; allowance 12,301 sf 5.00 NIC

157 Exterior skin

158 42000 Brick veneer, face brick; patterned; Econo; 60% 31,770 sf 30.75 976,928

159 42000 16" Precast concrete base at Phenolic only 1,000 sf 55.00 55,000

160 42000 4" Precast concrete window sill 308 lf 58.00 17,864

161 42000 Aluminum composite panel 1,070 sf 60.00 64,200

162 42000 Solid phenolic panel 3,662 sf 68.00 249,016

163 42000 Zinc metal panel, Rheinzink 1,431 sf 75.00 NIC

164 42000 Zinc flat lock metal panel 2,796 sf 70.00 195,720

165 05500 Canopies at loading dock; painted 705 sf 5.00 3,525

166 09200 Stucco soffit at underside of overhang 1,220 sf 22.00 26,840

167 05500 Phenolic Panels to underside of entry canopy; Wood pa 1,507 sf 35.00 52,745

168 Miscellaneous

169 05500 Expansion joint at walls 60 lf 25.00 1,500



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
NEW ELEMENTARY SCHOOL								
170	05500 Perforated metal sloped signage screen on galvanized steel frame, 5/A3.02	690	sf	90.00	62,100			
171	04200 Staging to exterior wall	39,603	sf	3.00	118,809			
172						2,982,139		
172	SUBTOTAL							
173								
174	B2020 WINDOWS	7,833	sf					
175	Aluminum windows	2,132	sf	85.00	181,220			
176	08520 Aluminum curtainwall					NIC		
177	Premium for awning openings	48	loc	350.00	16,800			
178	Aluminum storefront	4,521	sf	90.00	406,890			
179	Aluminum sunscreen at windows; 7' long, A3.01	19	loc	3,250.00	61,750			
180	Polycarbonate panel	1,180	sf	62.00	73,160			
181	10200 Louvers (allowance)	250	sf	60.00	15,000			
182	07900 Backer rod & double sealant	4,017	lf	9.00	36,153			
183	06100 Wood blocking at openings	4,017	lf	4.00	16,068			
184	SUBTOTAL					807,041		
185								
186	B2030 EXTERIOR DOORS							
187	84113 Glazed entrance doors including frame and hardware; double door	6	pr	8,000.00	48,000			
188	84113 HM doors, frames and hardware- Double	2	pr	3,600.00	7,200			
189	HM doors, frames and hardware- Single	1	ea	1,800.00	1,800			
190	Glazed storefront at innovation project area, 6' x 7'	2	ea	8,000.00	16,000			
191	Overhead door at Loading dock, 8' x 9'-3", electrically operated	1	ea	4,810.00	4,810			
192	07900 Backer rod & double sealant	276	lf	9.00	2,484			
193	06100 Wood blocking at openings	276	lf	4.00	1,104			
194	SUBTOTAL					81,398		
195								
196	TOTAL - EXTERIOR CLOSURE						\$3,870,578	
197								
198								
199	B30 ROOFING							
200								
201	B3010 ROOF COVERINGS							
202	<u>Flat roofing</u>							
203	07500 PVC roof membrane fully adhered	26,997	sf	8.50	229,475			
204	07240 Insulation	26,997	sf	6.00	161,982			
205	07240 1/2" dens-deck protection board	26,997	sf	2.00	53,994			
206	07240 Reinforced vapor barrier	26,997	sf	1.00	26,997			
207	06100 Rough blocking	705	lf	6.00	4,230			
208	<u>Sloped roofing: Academic Wing</u>							
209	07500 Standing seam metal roof; Ribbed PVC	7,911	sf	22.00	174,042			
210	07240 Insulation	7,911	sf	6.00	Incl			
211	07240 1/2" dens-deck protection board	7,911	sf	2.00	Incl			
212	07240 Reinforced vapor barrier	7,911	sf	1.00	Incl			
213	Rough blocking	972	lf	6.00	5,832			
214	<u>Sloped roofing: Gym</u>							
215	07500 Standing seam metal roof; Ribbed PVC	14,609	sf	22.00	321,398			
216	07240 Insulation	14,609	sf	6.00	Incl			
217	07240 1/2" dens-deck protection board	14,609	sf	2.00	Incl			
218	07240 Reinforced vapor barrier	14,609	sf	1.00	Incl			
219	<u>Miscellaneous Roofing</u>							
220	07240 Premium for green roof system; Trays 50%/Pavers 50%	1,221	sf	40.00	48,840			
221	05500 Metal fascia/trim at flat roof parapet	705	lf	38.00	26,790			
222	05500 Metal fascia/trim at sloped roof, larger profile	972	lf	45.00	43,740			
223	05500 Zinc fascia/trim at flat roof	640	lf	80.00	51,200			
224	05500 Roof screens - perforated metal panel - 8' high	1,000	sf	50.00	50,000			



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
NEW ELEMENTARY SCHOOL								
225	05500	Roof expansion joints	70	sf	50.00	3,500		
226	05500	Aluminum downspouts	35	sf	21.00	735		
227	05500	Aluminum gutters	187	sf	27.00	5,049		
228	05500	Elevator PH and vent	1	ea	3,500.00	3,500		
229	05500	Flashing at elevator override	37	lf	20.00	740		
230	05500	Roof to wall flashing	263	lf	20.00	5,260		
231	05500	Roof ladders	1	ls	3,000.00	3,000		
232	07500	Walk pads	1	ls	15,000.00	15,000		
233	07500	Snow guard allowance	1	ls	10,000.00	10,000		
234		SUBTOTAL					1,245,304	
235								
236	B3020	ROOF OPENINGS						
237	07830	Skylight	293	sf	120.00	35,160		
238	07830	Roof hatch	1	loc	2,500.00	2,500		
239	07830	Smoke hatch allowance	1	loc	8,000.00	8,000		
240		SUBTOTAL					45,660	
241								
242	TOTAL - ROOFING							\$1,290,964
243								
244								
245	C10 INTERIOR CONSTRUCTION							
246								
247	C1010	PARTITIONS						
248		Reinforced masonry shear walls at Gymnasium & Stage	3,666	sf	22.00	80,652		
249		CMU walls at other spaces	10,624	sf	21.00	223,104		
250	09250	Stairs/Elevator; 2 HR rated	2,821	sf	15.00	42,315		
251	09250	Corridors; GWB with 2 lyrs corridor side	22,324	sf	14.60	325,930		
252	09250	Demising; Metal stud w/ 2 layers gwb one side only	26,509	sf	14.60	387,031		
253	09250	Shaft wall	688	sf	15.00	10,320		
254	09250	Operable acoustic partitions at platform	1,132	sf	80.00	90,560		
255	055000	Support framing for Operable partition	73	lf	120.00	8,760		
256	070001	Sealants & caulking at partitions	52,342	sf	0.50	26,171		
257	061000	Rough blocking to partitions	4,026	lf	3.00	12,078		
258	09250	Interior storefront	616	sf	75.00	46,200		
259	09250	Transaction window at main entrance vestibule to administration	16	sf	80.00	1,280		
260		SUBTOTAL					1,254,401	
261								
262	C1020	INTERIOR DOORS						
263		<u>Glazed Aluminum Doors</u>						
264	084313	3'-0" x 7'-0"	2	ea	3,500.00	7,000		
265	084313	6'-0" x 7'-0"	4	pr	7,500.00	30,000		
266	081113	<u>Door, Frames, Hardware</u>						
267		Doors						
268	081113	HM door	43	ea	500.00	21,500		
269	081113	Flush wood door	66	ea	490.00	32,340		
270	081113	Sliding door at mail/copy, including frame and hardware; single	1	ea	2,000.00	2,000		
271	081113	Doors at storage rooms- double	4	pr	980.00	3,920		
272	081113	Door frames						
273	081113	HM single	92	ea	350.00	32,200		
274	081113	HM double	13	ea	700.00	9,100		
275	081113	Door hardware	118	leaf	750.00	88,500		
276	081113	Pocket doors at art room, including frames and hardware, double, 6'x 7'	1	loc	3,800.00	3,800		
277	081113	Barn door at servery allowance - 7' x 12'	1	loc	4,200.00	4,200		
278	081113	Roll up door at kitchen allowance - 7' x 12'	1	loc	5,460.00	5,460		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
NEW ELEMENTARY SCHOOL								
279	081113 Premium for sound gasketed door at music room, double	1	pr	600.00	600			
280	081113 Interconnecting classroom doors; VE	(12)	ea	1,600.00	(19,200)			
281	<i>Interior Glazing</i>							
282	088000 Interior HM side light and transom windows	1,204	sf	65.00	78,260			
283	090009 Paint doors and frames	118	ea	110.00	12,980			
284	079200 Sealants & caulking	118	ea	60.00	7,080			
285	SUBTOTAL					319,740		
286								
287	C1030 SPECIALTIES / MILLWORK							
288	<i>Toilet Partitions</i>							
289	102113 ADA	8	ea	1,323.00	10,584			
290	102113 Standard	12	ea	823.00	9,876			
291	102113 Urinal screens	4	ea	392.00	1,568			
292	055000 Miscellaneous support at toilet partitions	20	loc	150.00	3,000			
293	<i>Toilet Accessories</i>							
294	102813 Gang bathrooms	8	rms	2,500.00	20,000			
295	102813 Individual bathrooms	12	rms	600.00	7,200			
296	102813 Custodian closet	3	rms	500.00	1,500			
297	06100 Backer panels in electrical closets	1	ls	1,000.00	1,000			
298	06100 Window sill, Plam	344	lf	40.00	13,760			
299	10100 Markerboards	2,840	sf	22.00	62,480			
300	10100 Tackboards	1,020	sf	20.00	20,400			
301	062000 Wood wall panel at gym	115	sf	60.00	6,900			
302	062000 Wood wall panel at media center, 20% of wall area	204	sf	60.00	12,240			
303	062000 Wood floor framing to stage floor w 3/4" T&G plywood	965	sf	19.00	18,335			
304	062000 Wood bench at lobby	38	lf	380.00	14,440			
305	062000 Allowance for bench at second floor team room	50	lf	225.00	11,250			
306	062000 Building directory	1	loc	3,000.00	3,000			
307	10400 Room Signs	106	ea	120.00	12,720			
308	10400 Interior signage at gym, 2/A4.01	1	loc	5,000.00	5,000			
309	10400 Dedication plaque	1	ea	1,400.00	1,400			
310	10475 Fire extinguisher cabinets	24	ea	350.00	8,400			
311	10475 Lockers at corridor, 12" wide double tier	225	loc	300.00	67,500			
312	06100 Staff mailboxes/casework	1	ls	6,000.00	6,000			
313	05500 Allowance for interior wood blocking	72,670	sf	0.25	18,168			
314	05500 Allowance for corner guards	1	ls	2,000.00	2,000			
315	05500 Allowance for unframed mirrors	1	ls	5,000.00	5,000			
316	06400 Reception desk at waiting	17	lf	700	11,900			
317	12320 Media center shelving					F,F & E		
318	12320 Display cases	1	ls	30,000.00	30,000			
319	05500 Guardrail at open to below spaces	52	lf	300.00	15,600			
320	05500 Miscellaneous metals throughout building	72,670	sf	0.75	54,503			
321	07900 Miscellaneous sealants throughout building	72,670	sf	0.50	36,335			
322	SUBTOTAL					492,059		
323								
324	TOTAL - INTERIOR CONSTRUCTION						\$2,066,200	
325								
326								
327	C20 STAIRCASES							
328								
329	C2010 STAIR CONSTRUCTION							
330	55100 Stage stairs, wood	1	flts	5,000.00	5,000			
331	55100 Metal pan stair; stair 1	1	flt	40,000.00	40,000			
332	55100 Metal pan stair; egress stair	2	flt	24,000.00	48,000			
333	33000 Concrete fill to stairs	3	flt	2,000.00	6,000			
334	SUBTOTAL					99,000		
335								
336	C2020 STAIR FINISHES							



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
NEW ELEMENTARY SCHOOL								
337	90009	High performance coating to stairs including all railings etc.	3	flt	3,000.00	9,000		
338	90006	Rubber tile at stairs - landings	330	sf	12.00	3,960		
339	90006	Rubber tile at stairs - treads & risers	345	lft	22.00	7,590		
340		SUBTOTAL				20,550		
341								
342	TOTAL - STAIRCASES						\$119,550	
343								
344								
345	C30 INTERIOR FINISHES							
346								
347	C3010 WALL FINISHES							
348	090009	Paint to GWB walls	98,354	sf	0.85	83,601		
349	090009	Paint to CMU walls	24,914	sf	1.25	31,143		
350	090002	Ceramic wall tile toilet wet walls, full height	2,007	sf	22.00	44,154		
351	090002	Ceramic wall tile at servery , assume 6' high	1,000	sf	22.00	22,000		
352	090002	Vinyl Graphics	1	ls	10,000.00	NIC		
353	090002	36" high Plam wainscot at corridor walls	3,228	sf	22.00	71,016		
354	090002	Tectum at gym on channel framing	2,000	sf	16.00	32,000		
355	090002	Acoustic wall panel at music room	400	sf	26.00	10,400		
356	090002	Acoustic wall panel at cafeteria	600	sf	26.00	15,600		
357		SUBTOTAL				309,914		
358								
359	C3020 FLOOR FINISHES							
360	096400	Stage wood flooring; rubber	965	sf	12.00	11,580		
361	096466	Gymnasium wood flooring	6,017	sf	17.50	105,298		
362	096466	Wood flooring; change to rubber	1,069	sf	12.00	12,828		
363	096800	Carpet tile	5,184	sf	5.25	27,216		
364	090005	Solid vinyl tile; change VCT	29,133	sf	4.00	116,532		
365	090005	Vinyl plank	17,200	sf	6.00	103,200		
366	090003	Epoxy flooring	2,249	sf	12.00	26,988		
367	090005	Rubber at ramp	308	sf	14.00	4,312		
368	090002	Porcelain tile at bathroom floors; change to epoxy	2,241	sf	12.00	26,892		
369	090002	Ceramic tile base	837	lf	12.00	10,044		
370	090009	Sealed concrete	2,775	sf	1.50	4,163		
371	090009	Resilient base	9,696	lf	2.50	24,240		
372		SUBTOTAL				473,293		
373								
374	C3030 CEILING FINISHES							
375	098414	ACT 2 x 2	3,046	sf	5.50	16,753		
376	098414	ACT 2 x 4	26,559	sf	5.00	132,795		
377	098414	ACT 2 x 4 at sped	4,743	sf	5.00	23,715		
378	098414	ACT 2' x 4' at food service, assumed washable	1,869	sf	6.00	11,214		
379	098414	ACT 2 x 8 at corridors; 2 x 2	12,297	sf	5.00	61,485		
380	098414	ACT 4 x 4; change to 2 x 4	1,967	sf	5.00	9,835		
381	098414	ACT 4x6 - Wood laminate at media center	1,023	sf	32.00	32,736		
382	098414	4' x 4' suspended fiberglass acoustic panel at cafeteria	1,620	sf	40.00	64,800		
383	098414	ACT 6 ceiling 2 x 4 scrubbable	353	sf	6.00	2,118		
384	098414	GWB ceilings	3,161	sf	10.00	31,610		
385	090009	Paint exposed structure	10,472	sf	2.50	26,180		
386	090009	Paint to gwb ceilings	3,161	sf	1.00	3,161		
387	95123	Allowance for GWB soffits	1	ls	15,000.00	15,000		
388		SUBTOTAL				431,402		
389								
390	TOTAL - INTERIOR FINISHES						\$1,214,609	
391								
392								
393	D10 CONVEYING SYSTEMS							



Schematic Design Estimate

GFA

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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NEW ELEMENTARY SCHOOL

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D1010 ELEVATOR							
93000	Passenger elevator; 2 stop, 3500 lbs	1	ea	100,000.00	100,000		
	SUBTOTAL					100,000	

TOTAL - CONVEYING SYSTEMS							\$100,000
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D20 PLUMBING

D20 PLUMBING, GENERALLY

Equipment

220000	Gas fired hot water heater 400,000 BTUH	1	ea	22,000.00	22,000		
220000	Gas fired hot water heater 130,000 BTUH	1	ea	17,000.00	17,000		
220000	Hot water storage tank 250 Gallon	1	ea	4,500.00	4,500		
220000	Water meter assembly	1	ea	4,500.00	4,500		
220000	Connection to gas meter	1	ea	1,050.00	1,050		
220000	Reduce pressure backflow preventer	1	ea	3,080.00	3,080		
220000	Hot water circulator pump assembly	2	ea	1,200.00	2,400		
220000	Mixing valve	2	ea	4,400.00	8,800		
220000	Rough-in & connection to kitchen equipment	1	ls	35,000.00	35,000		
220000	Miscellaneous plumbing equipment	72,670	sf	1.00	72,670		

Plumbing Fixtures

220000	Water closet	32	ea	1,200.00	38,400		
220000	Lavatory	28	ea	900.00	25,200		
220000	Urinal	4	ea	1,500.00	6,000		
220000	Mop sink	3	ea	950.00	2,850		
220000	Water cooler	2	ea	3,800.00	7,600		
220000	Classroom/art/SPED sink	26	ea	800.00	20,800		
220000	Miscellaneous plumbing fixtures	72,670	sf	0.50	36,335		
220000	Classroom sinks; VE	(21)	ea	5,000.00	-105,000		

Domestic Water Piping

220000	Copper pipe type L with fittings & hangers	72,670	sf	2.50	181,675		
220000	Valves & accessories	1	ls	50,000.00	50,000		

Pipe insulation

220000	Pipe insulation	72,670	sf	1.25	90,838		
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Sanitary Waste And Vent Pipe w/ Hangers

220000	Cast iron pipe with fittings & hangers	72,670	sf	2.25	163,508		
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Storm Drainage, Hubless Cast Iron Pipe

220000	Cast iron pipe with fittings & hangers	72,670	sf	1.00	72,670		
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Natural Gas Piping

220000	Natural gas pipe with fittings & hangers	72,670	sf	0.75	54,503		
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220000	Valves & accessories	1	ls	9,500.00	9,500		
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Miscellaneous

220000	Coordination & management	1	ls	35,000.00	35,000		
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220000	Coring, sleeves & fire stopping	1	ls	5,000.00	5,000		
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220000	Testing and sterilization	1	ls	3,000.00	3,000		
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220000	Fees & permits	1	ls	10,000.00	NIC		
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	SUBTOTAL					868,879	
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TOTAL - PLUMBING							\$868,879
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D30 HVAC

D30 HVAC, GENERALLY

Heating equipment

230000	Gas fired HW condensing boiler 1200 MBH	3	ea	36,000.00	108,000		
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230000	Miscellaneous heating equipment	72,670	sf	2.00	145,340		
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Cooling equipment

230000	Air cooled chiller 70 ton	1	ea	84,000.00	84,000		
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230000	Miscellaneous cooling equipment	72,670	sf	0.50	36,335		
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Pumps

230000	Hot water pump 390 GPM with VFD	2	ea	13,650.00	27,300		
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Schematic Design Estimate

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
NEW ELEMENTARY SCHOOL								
458	230000 Chilled water pump 180 GPM with VFD	2	ea	6,300.00	12,600			
459	<u>Air distribution</u>							
460	<u>Air Handling Unit</u>							
461	230000 RTU 11,000 CFM gas fired DX cooling & ER	1	ea	110,000.00	110,000			
462	230000 AHU 10,000 CFM HW & CHW cooling & dual ERW with CO2 control	1	ea	150,000.00	150,000			
463	230000 AHU 7,500 CFM HW & CHW cooling & ERW with CO2 control	1	ea	90,000.00	90,000			
464	230000 RTU 3,000 CFM VAV 100% O.A gas fired DX cooling & ERW	1	ea	30,000.00	30,000			
465	230000 RTU 2,000 CFM gas fired	1	ea	10,000.00	10,000			
466	230000 HV unit gas fired	1	ea	800.00	800			
467	230000 Miscellaneous air distribution equipment	72,670	sf	2.90	210,743			
468	<u>Exhaust fan</u>							
469	230000 Exhaust fans	72,670	sf	0.25	18,168			
470	<u>Sheet metal & Accessories</u>							
471	230000 Galvanized ductwork with fittings & hangers	59,220	lbs	9.50	562,590			
472	230000 Duct insulation	35,532	sf	4.00	142,128			
473	230000 Miscellaneous sheet metal accessories	72,670	sf	1.00	72,670			
474	<u>Piping</u>							
475	230000 <u>Hot Water & Chilled Water Pipe</u>							
476	230000 Hot water piping with fittings & hangers	72,670	sf	3.25	236,178			
477	230000 Valves & accessories	1	ls	64,000.00	64,000			
478	230000 <u>Refrigerant Piping</u>							
479	230000 Refrigerant piping with fittings & hangers	72,670	sf	0.25	18,168			
480	230000 Valves & accessories	1	ls	6,200.00	6,200			
481	<u>Condensate Drain Piping</u>							
482	230000 Condensate drain piping with fittings & hangers	72,670	sf	0.50	36,335			
483	230000 <u>Piping Insulation</u>							
484	230000 Piping insulation	72,670	sf	2.00	145,340			
485	<u>Controls (DDC)</u>							
486	230000 Automatic temperature controls (Non-Proprietary)	72,670	sf	4.00	290,680			
487	<u>Balancing</u>							
488	230000 System testing & balancing	72,670	sf	0.55	39,969			
489	<u>Miscellaneous</u>							
490	230000 Coordination & management	1	ls	60,000.00	60,000			
491	230000 Commissioning support	1	ls	20,000.00	20,000			
492	230000 Coring, sleeves & fire stopping	1	ls	6,000.00	6,000			
493	230000 Equipment start-up and inspection	1	ls	1,000.00	1,000			
494	230000 Rigging & equipment rental	1	ls	20,000.00	20,000			
495	230000 Vibration & seismic restraints	1	ls	15,000.00	15,000			
496	SUBTOTAL					2,769,544		
497	TOTAL - HVAC							\$2,769,544
498								
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501	D40 FIRE PROTECTION							
502								
503	D40 FIRE PROTECTION, GENERALLY							
504	Double check valve assembly	1	ea	10,000.00	10,000			
505	Wet alarm check valve assembly	1	ea	4,000.00	4,000			
506	Siamese connection	1	ea	1,500.00	1,500			
507	Zone control valve stations	2	ea	2,000.00	4,000			
508	Sprinkler head	569	ea	75.00	42,675			
509	Branch pipe with fittings & hangers	6,800	lf	18.00	122,400			
510	Main pipe with fittings & hangers	2,200	lf	26.00	57,200			
511	Miscellaneous valves & accessories	1	ls	5,000.00	5,000			
512	<u>Miscellaneous</u>							
513	Coordination & management	1	ls	10,000.00	10,000			
514	Hydraulic calculations	1	ls	3,500.00	3,500			
515	Coring, sleeves & fire stopping	1	ls	5,000.00	5,000			



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW ELEMENTARY SCHOOL							
516	Fees & permits	1	ls	3,400.00	NIC		
517	SUBTOTAL					265,275	
TOTAL - FIRE PROTECTION							\$265,275
D50 ELECTRICAL							
D5010 SERVICE & DISTRIBUTION							
Gear & Distribution							
<u>Normal Power</u>							
260000	1200A 480/277V main switchboard	1	ea	36,000.00	36,000		
260000	SPD	1	ea	1,200.00	1,200		
260000	Meter connection	2	ea	500.00	1,000		
260000	480/277V distribution panelboard	1	ea	20,000.00	20,000		
260000	225A 480/277V panelboard	4	ea	2,500.00	10,000		
260000	75KVA transformer	3	ea	7,335.00	22,005		
260000	75KVA transformer K-13 rated	2	ea	8,520.00	17,040		
260000	225A 208/120V double tub panelboard	2	ea	5,000.00	10,000		
260000	225A 208/120V panelboard	2	ea	2,500.00	5,000		
260000	150A 208/120V panelboard	1	ea	2,200.00	2,200		
260000	100A 208/120V panelboard	1	ea	1,500.00	1,500		
	TVSS	6	ea	350.00	2,100		
	100A disconnect	2	ea	850.00	1,700		
	800A feed	250	lf	210.00	52,500		
260000	225A feed	100	lf	48.75	4,875		
	200A feed	570	lf	42.85	24,425		
260000	150A feed	860	lf	32.20	27,692		
260000	100A feed	100	lf	23.00	2,300		
260000	Grounding & bonding	1	ls	10,000.00	10,000		
<u>Emergency power</u>							
260000	150KW natural gas generator in WP sound attenuated enclosure	1	ls	50,000.00	50,000		
260000	Remote annunciator	1	ea	1,500.00	1,500		
260000	600A automatic transfer switch	1	ea	12,060.00	12,060		
260000	100A automatic transfer switch	1	ea	3,800.00	3,800		
260000	600A 480/277V distribution panelboard	1	ea	20,000.00	20,000		
260000	225A 480/277V panelboard	1	ea	2,500.00	2,500		
260000	100A 480/277V panelboard	1	ea	1,500.00	1,500		
	150KVA transformer	1	ea	11,267.00	11,267		
	45KVA transformer K-13 rated	1	ea	6,350.00	6,350		
260000	200A 208/120V panelboard	1	ea	2,300.00	2,300		
260000	150A 208/120V panelboard	1	ea	2,200.00	2,200		
260000	600A feed	110	lf	152.50	16,775		
	300A feed	20	lf	73.20	1,464		
260000	200A feed	370	lf	42.85	15,855		
260000	150A feed	20	lf	32.20	644		
260000	100A feed	80	lf	23.00	1,840		
<u>UPS System</u>							
	24kw 30kva UPS	1	ls	25,000.00	25,000		
	100A 208/120V panelboard	1	ea	1,500.00	1,500		
	100A disconnect	1	ea	850.00	850		
260000	EPO	1	ea	350.00	350		
260000	100A feed	300	lf	23.00	6,900		
<u>Equipment Wiring</u>							
260000	ACCU unit feed and connection	1	ea	1,450.00	1,450		
260000	AHU feed, connection & VFD connection	2	ea	2,650.00	5,300		
260000	Boiler 20A feed and connection	3	ea	1,100.00	3,300		
	Chiller feed and connection	1	ea	3,000.00	3,000		
	Kitchen cooler feed & connection	1	ea	1,420.00	1,420		
260000	CWP 20A feed, connection & VFD connection	2	ea	1,800.00	3,600		
260000	DDC system power	1	ea	1,500.00	1,500		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW ELEMENTARY SCHOOL							
577	260000 Elevator cab feed and connection	1	ea	1,450.00	1,450		
578	260000 Elevator feed and connection	1	ea	3,100.00	3,100		
579	DCU feed and connection	4	ea	1,450.00	5,800		
580	260000 Exhaust fan 20A feed and connection	8	ea	1,400.00	11,200		
581	HV 30A feed and connection	1	ea	1,450.00	1,450		
582	260000 HWP 30A feed and connection	2	ea	1,000.00	2,000		
583	260000 KEF hood exhaust feed and connection	1	ea	1,600.00	1,600		
584	Kiln feed, FSS & special purpose receptacle	1	ea	1,400.00	1,400		
585	260000 Kitchen equipment feed and connections	1	ls	20,000.00	20,000		
586	Motor logic controller feed and connection	3	ea	1,000.00	3,000		
587	260000 Motorized shade connection	12	ea	550.00	6,600		
588	Projector feed, connection, & control station	1	ea	1,000.00	1,000		
589	Water cooler 20A feed and connection	5	ea	1,360.00	6,800		
590	Circulation pump 20A feed and connection	3	ea	1,100.00	3,300		
591	Water heater 20A feed & connection	2	ea	1,360.00	2,720		
592	260000 RTU feed, connection & VFD connection	7	ea	3,000.00	21,000		
593	260000 UH 20A feed and connection	10	ea	1,100.00	11,000		
594	Allow for equipment wiring power not yet detailed	74,026	sf	0.30	22,208		
595	260000 SUBTOTAL					581,390	
596	260000						
597	D5020 LIGHTING & POWER						
598	<u>Lighting & Branch Power</u>						
599	LC1	32	lf	65.00	2,080		
600	260000 LP4	10	ea	400.00	4,000		
601	LP8	148	ea	700.00	103,600		
602	260000 LPD1	59	ea	700.00	41,300		
603	260000 LPG	25	ea	700.00	17,500		
604	260000 LR4?	102	ea	270.00	27,540		
605	LRK4	12	ea	300.00	3,600		
606	LS4	4	ea	220.00	880		
607	260000 LS8	13	ea	400.00	5,200		
608	LWS	224	lf	120.00	26,880		
609	260000 RC1	15	ea	280.00	4,200		
610	SL3	10	ea	450.00	4,500		
611	SL4	15	ea	650.00	9,750		
612	260000 SL7?	38	lf	120.00	4,560		
613	260000 TH1?	27	ea	300.00	8,100		
614	TR1?	50	lf	50.00	2,500		
615	260000 Exit sign	28	ea	220.00	6,160		
616	Allow for lighting fixtures not yet detailed	74,026	sf	0.90	66,623		
617	260000 <u>Lighting controls</u>						
618	260000 Lighting control system	74,026	sf	0.75	55,520		
619	260000 Single pole LV switch	80	ea	30.00	2,400		
620	260000 Occupancy sensor	100	ea	150.00	15,000		
621	260000 Daylight sensor	35	ea	150.00	5,250		
622	Photocell	1	ea	150.00	150		
623	260000 <u>Branch devices</u>						
624	260000 Duplex receptacle	250	ea	24.30	6,075		
625	260000 Double duplex receptacle	150	ea	48.00	7,200		
626	260000 Double duplex receptacle in floor box, allow	2	ea	48.00	96		
627	260000 GFI duplex receptacle	35	ea	40.00	1,400		
628	260000 Special purpose receptacle (allow)	6	ea	65.00	390		
629	260000 <u>Lighting and branch circuitry</u>						
630	260000 Device plate WP	6	ea	18.65	112		
631	260000 Device plate	550	ea	5.00	2,750		
632	260000 Device box	2,500	ea	27.00	67,500		
633	260000 2 gang floor box, allow	2	ea	300.00	600		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW ELEMENTARY SCHOOL							
634	260000	3/4" conduit	20,000	lf	7.00	140,000	
635		1" conduit in slab	100	lf	8.00	800	
636	260000	#12 THHN	70,000	lf	0.80	56,000	
637	260000	12-2 MC cable	30,000	lf	4.00	120,000	
638	260000	12-3 MC cable	10,000	lf	4.75	47,500	
639	260000	10-3 MC cable	1,000	lf	5.65	5,650	
640		SUBTOTAL					873,366
641							
642	D5030	COMMUNICATION & SECURITY SYSTEMS					
643		<u>Fire Alarm</u>					
644	260000	Fire alarm control panel	1	ea	30,000.00	30,000	
645	260000	Fire alarm remote annunciator (LCD)	1	ea	1,650.00	1,650	
646	260000	Graphic map	1	ea	750.00	750	
647	260000	Fire alarm terminal cabinet	1	ea	1,500.00	1,500	
648	260000	Master box	1	ea	3,500.00	3,500	
649	260000	Knox box	1	ea	320.00	320	
650	260000	Beacon	2	ea	270.00	540	
651		Drill key	1	ea	200.00	200	
652		Bell	1	ea	270.00	270	
653	260000	Manual pull station	8	ea	100.00	800	
654	260000	Smoke detector	69	ea	116.00	8,004	
655	260000	Heat detector, allow	2	ea	116.00	232	
656	260000	Duct smoke detector with remote test switch, allow	8	ea	433.00	3,464	
657	260000	Audio/visual device	82	ea	130.00	10,660	
658		Audio/visual device WP	1	ea	140.00	140	
659	260000	Visual device	22	ea	100.00	2,200	
660	260000	Remote alarm indicator	2	ea	123.00	246	
661	260000	Tamper/flow switch, allow	8	ea	227.00	1,816	
662	260000	Elevator recall connection	2	ea	130.00	260	
663		Kitchen connection	1	ea	130.00	130	
664	260000	Control/monitor module	20	ea	227.00	4,540	
665	260000	Device box	235	ea	27.00	6,345	
666	260000	3/4" conduit	7,500	lf	7.00	52,500	
667		#14 THHN	22,500	lf	0.65	14,625	
668	260000	FA cable	7,500	lf	0.65	4,875	
669	260000	Testing & programming	1	ls	6,000.00	6,000	
670		DAS (Antenna system)	1	ls	35,000.00	NIC	
671	260000	<u>Security</u>					
672	260000	Head-end	1	ls	25,000.00	25,000	
673	260000	Camera	26	ea	850.00	22,100	
674	260000	Camera WP	11	ea	1,200.00	13,200	
675	260000	Card reader	5	ea	350.00	1,750	
676	260000	Door contact	26	ea	200.00	5,200	
677		Electric hinge	17	ea		Door contractor	
678		Electric strike	9	ea	120.00	1,080	
679		Power transfer device	9	ea	150.00	1,350	
680	260000	Motion detector	31	ea	200.00	6,200	
681		Request to exit	9	ea	150.00	1,350	
682	260000	Intercom exterior station	1	ea	3,500.00	3,500	
683		Door junction box	9	ea	150.00	1,350	
684	260000	Device box	75	ea	25.50	1,913	
685	260000	3/4" conduit	9,000	lf	7.00	63,000	
686		RG-6 cable	4,000	lf	1.00	4,000	
687	260000	Security cabling	7,500	lf	1.25	9,375	
688	260000	<u>Telephone/Data/CATV</u>					
689	260000	Devices and cabling:					
690	260000	IDF fit-out, allow	1	ea	5,000.00	5,000	
691	260000	MDF fit-out, allow	1	ea	7,500.00	7,500	
692	260000	Switches VOIP licenses	1	ls	35,000.00	35,000	
693	260000	1 port data device	36	ea	20.00	720	



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW ELEMENTARY SCHOOL							
694	260000	2	port data device	35	ea	40.00	1,400
695		3	port data device	60	ea	60.00	3,600
696	260000	3	port data device in floor box	2	ea	60.00	120
697	260000	WAP device, allow	55	ea	250.00	13,750	
698	260000	AV device	72	ea	40.00	2,880	
699		VOIP handset	35	ea	150.00	5,250	
700	260000	CAT cabling	90,000	lf	1.20	108,000	
701	260000	Backbone cabling, allow	200	lf	25.00	5,000	
702	260000	Rough-in:					
703	260000	Device box with conduit stub	300	ea	120.00	36,000	
704	260000	4" EMT, allow	200	lf	26.00	5,200	
705	260000	4" sleeve, allow	6	ea	250.00	1,500	
706	260000	Cable tray in closets, allow	150	lf	50.00	7,500	
707	260000	MDF rough-in, allow	1	ea	2,000.00	2,000	
708	260000	IDF rough-in, allow	1	ea	1,500.00	1,500	
709	260000	Backboard	2	ea	350.00	700	
710	260000	Closet grounding	2	ea	500.00	1,000	
711		Allow for telecom scope not yet depicted	74,026	sf	0.50	37,013	
712	260000	<u>Audio/Visual Systems</u>					
713		IPTV and video on demand system	1	ls	100,000.00	100,000	
714		Cafeteria sound and projection system	1	ls	30,000.00	30,000	
715		Gymnasium sound system	1	ls	15,000.00	15,000	
716	260000	Gymnasium rough-in, allow	1	ls	10,000.00	10,000	
717	260000	Cafetorium rough-in, allow	1	ls	10,000.00	10,000	
718	260000	Team room rough-in, allow	2	ea	2,500.00	5,000	
719	260000	<u>Master Clock & PA System</u>					
720	260000	Master Clock/Intercom head-end	1	ls	25,000.00	25,000	
721	260000	Clock	40	ea	120.00	4,800	
722	260000	Speaker	40	ea	120.00	4,800	
723		PA talk back speaker	50	ea	250.00	12,500	
724		Call button	40	ea	100.00	4,000	
725	260000	Device box with conduit stub	170	ea	100.00	17,000	
726	260000	3/4" EMT	10,000	lf	7.00	70,000	
727	260000	Cabling	10,000	lf	1.50	15,000	
728	260000	<u>Speech Amplification System</u>					
729	260000	Speech amplification system	35	ea	2,000.00	NIC	
730	260000	<u>Cafeteria/Platform</u>					
731	260000	Stage dimming and controls	1	ls	35,000.00	Equip	
732	260000	Stage dimming and controls (Rough-in)	1	ls	15,000.00	15,000	
733	260000	<u>Gymnasium</u>					
734	260000	Scoreboard/ shot clocks power & control stations only	1	ea	4,000.00	4,000	
735	260000	Motorized backboard & control stations	2	ea	1,500.00	3,000	
736	260000	Motorized bleacher	2	ea	1,500.00	3,000	
737		Motorized divider curtain (from spec)	1	ea	1,200.00	1,200	
738		SUBTOTAL				945,868	
739							
740		D5040 OTHER ELECTRICAL SYSTEMS					
741		<u>Miscellaneous</u>					
742	260000	Lightening protection system	74,026	sf	0.45	33,312	
743	260000	Temp power and lights	74,026	sf	0.50	37,013	
744	260000	Coordination study and testing	1	ls	15,000.00	15,000	
745	260000	Seismic restraints	1	ls	10,000.00	10,000	
746	260000	Fees & Permits	1	ls	30,000.00	NIC	
747		SUBTOTAL				95,325	
748							
749		TOTAL - ELECTRICAL					\$2,495,949
750							
751							
752		E10 EQUIPMENT					
753							
754		E10 EQUIPMENT, GENERALLY					



Schematic Design Estimate

GFA

72,670

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
NEW ELEMENTARY SCHOOL								
755	11500							
	Gym wall pads	1	ls	10,000.00	10,000			
756	11500							
	Basketball backstops; swing up; electric operated	2	ea	9,800.00	19,600			
757	11500							
	Gymnasium dividing net; electrically operated	1	loc	45,000.00	45,000			
758	11500							
	Volleyball net and standards	1	ea	2,000.00	2,000			
759	11500							
	Telescoping bleachers	1	ls	25,000.00	25,000			
760	11500							
	Cubicle curtain & track at nurse area	1	loc	500.00	500			
761	11970							
	Platform curtains, rigging and controls	1	ls	35,000.00	35,000			
762								
	AV Equipment at Café/Gym/ Learning					F,F&E		
763	11400							
	Food Service equipment	1	ls	225,000.00	225,000			
764	11500							
	Allowance for loading dock equipment	1	ls	10,000.00	10,000			
765	11400							
	Refrigerator/Freezer	1	ea	1,000.00	1,000			
766	11400							
	Kiln	1	ea	3,000.00	3,000			
767	10999							
	Electrically operated projection screens in gym & cafeteria	2	loc	10,000.00	20,000			
768								
	SUBTOTAL					396,100		
769								
770	TOTAL - EQUIPMENT							\$396,100
771								
772								
773	E20 FURNISHINGS							
774								
775	E2010 FIXED FURNISHINGS							
776	12670							
	Entry mats & frames - recessed with carpet/rubber strips	265	sf	45.00	11,925			
777	12670							
	Metal walk off grate	206	sf	50.00	10,300			
778	12500							
	Manual operated roller shades	2,132	sf	6.00	12,792			
779	12670							
	Casework							
780	12500							
	Base cabinets with solid surface countertop at exam corridor	12	lf	400.00	4,800			
781	12320							
	Base cabinets with solid surface countertop at corridor	12	lf	400.00	4,800			
782	12320							
	Solid surface counter at cafeteria	34	lf	190.00	6,460			
783								
	<i>3rd Grade</i>							
784	12320							
	Teacher wardrobe, 36"	7	ea	1,600.00	11,200			
785	12320							
	General storage, 36"	7	ea	1,600.00	11,200			
786	12320							
	Base cabinet with countertop	57	lf	340.00	19,380			
787	12320							
	Wall cabinets	57	lf	220.00	NIC			
788								
	<i>3rd Grade Sped</i>							
789	12320							
	Teacher wardrobe, 36"	1	ea	1,600.00	1,600			
790	12320							
	General storage, 36"	1	ea	1,600.00	1,600			
791	12320							
	Base cabinet with countertop	8	lf	340.00	2,720			
792	12320							
	Wall cabinets	8	lf	220.00	NIC			
793								
	<i>4th Grade</i>							
794	12320							
	Teacher wardrobe, 36"	7	ea	1,600.00	11,200			
795	12320							
	General storage, 36"	7	ea	1,600.00	11,200			
796	12320							
	Base cabinet with countertop	57	lf	340.00	19,380			
797	12320							
	Wall cabinets	57	lf	220.00	NIC			
798								
	<i>4th Grade Sped</i>							
799	12320							
	Teacher wardrobe, 36"	2	ea	1,600.00	3,200			
800	12320							
	General storage, 36"	2	ea	1,600.00	3,200			
801	12320							
	Base cabinet with countertop	16	lf	340.00	5,440			
802	12320							
	Wall cabinets	16	lf	220.00	NIC			
803								
	<i>5th Grade</i>							
804	12320							
	Teacher wardrobe, 36"	7	ea	1,600.00	11,200			
805	12320							
	General storage, 36"	7	ea	1,600.00	11,200			
806	12320							
	Base cabinet with countertop	57	lf	340.00	19,380			
807	12320							
	Wall cabinets	57	lf	220.00	NIC			
808								
	<i>5th Grade Sped</i>							
809	12320							
	Teacher wardrobe, 36"	1	ea	1,600.00	1,600			



Schematic Design Estimate

GFA

72,670

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW ELEMENTARY SCHOOL							
810	12320	General storage, 36"	1	ea	1,600.00	1,600	
811	12320	Base cabinet with countertop	8	lf	340.00	2,720	
812	12320	Wall cabinets	8	lf	220.00	NIC	
813		<i>Art</i>					
814	12320	Art room student work tables - 60" x 42"	12	ea	2,000.00	F,F&E	
815	12320	General storage, 36"	1	ea	1,600.00	1,600	
816	12320	Base cabinet with countertop	22	lf	340.00	7,480	
817	12320	Wall cabinets	22	lf	220.00	4,840	
818		<i>Exam room</i>					
819	12320	Base cabinet with countertop	6	lf	340.00	2,040	
820	12320	Wall cabinets	6	lf	220.00	1,320	
821		<i>Music room</i>					
822	12320	Teacher wardrobe, 36"	1	ea	1,600.00	1,600	
823	12320	General storage, 36"	5	ea	1,600.00	8,000	
824	12320	Open storage, 36"	4	ea	1,200.00	4,800	
825		<i>Reading room</i>					
826	12320	Teacher wardrobe, 36"	1	ea	1,600.00	1,600	
827	12320	General storage, 36"	1	ea	1,600.00	1,600	
828		<i>Resource room</i>					
829	12320	Teacher wardrobe, 36"	2	ea	1,600.00	3,200	
830		<i>Teacher planning dining</i>					
831	12320	General storage, 36"	2	ea	1,600.00	3,200	
832		<i>Team room</i>					
833	12320	Wall hung counter	46	lf	190.00	8,740	
834		SUBTOTAL					250,117
835							
836		E2020 MOVABLE FURNISHINGS					
837		All movable furnishings to be provided and installed by owner					
838		SUBTOTAL					NIC
839							
840		TOTAL - FURNISHINGS					\$250,117
841							
842							
843		F10 SPECIAL CONSTRUCTION					
844							
845		F10 SPECIAL CONSTRUCTION					
846		No Work in this section					
847		SUBTOTAL					
848							
849		TOTAL - SPECIAL CONSTRUCTION					
850							
851							
852		F20 SELECTIVE BUILDING DEMOLITION					
853							
854		F2010 BUILDING ELEMENTS DEMOLITION					
855		See main summary for demolition of existing buildings					
856		SUBTOTAL					
857							
858		F2020 HAZARDOUS COMPONENTS ABATEMENT					
859	02121	See main summary for HazMat allowance					See Summary
860		SUBTOTAL					
861							
862		TOTAL - SELECTIVE BUILDING DEMOLITION					



Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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SITWORK

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G	SITWORK
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G10 SITE PREPARATION & DEMOLITION

Site Demolitions and Relocations

311000	Clear and grub allowance	1	ls	10,000.00	10,000		
311000	Site construction fence/barricades	2,690	lf	8.00	21,520		
311000	Remove and dispose Bituminous Paving; grind and reuse as base where possible	148,500	sf	1.00	148,500		
311000	Remove existing volleyball court	4,000	sf	1.00	4,000		
311000	Protect and maintain trees	1	ls	2,000.00	2,000		
311000	Remove existing concrete wall	30	lf	15.00	450		
311000	Remove existing utility structures	11	ea	250.00	2,750		
311000	Remove existing utilities	1,335	lf	18.00	24,030		
311000	Relocate existing hydrant	1	ls	1,000.00	1,000		
311000	Remove existing hydrant	1	ls	250.00	250		
311000	Ledge/Boulder removal allowance	1	ls	25,000.00	25,000		

Site Earthwork

312000	Strip topsoil, store	7,080	cy	12.00	84,960		
312000	Remove excess topsoil				NO COST		
312000	Backfill existing building after removal	1	ls	40,000.00	40,000		
312000	Cuts/Fills	32,400	cy	9.00	291,600		
312000	Export surplus material - reuse on site	4,000	cy	9.00	Incl		
312000	Fine grading	19,231	sy	1.50	28,847		
312500	Construction entrance	1,700	sf	6.00	10,200		
312500	Inlet protection	48	ea	250.00	12,000		
312500	Silt fence/erosion control	2,200	lf	11.00	24,200		
312500	Erosion control maintenance	1	ls	25,000.00	25,000		

Hazardous Waste Remediation

028000	Oil tank removal	1	ls	50,000.00	50,000		
028000	Propane tank removal	1	ls	5,000.00	5,000		
028000	Dispose/treat contaminated water				NIC		

SUBTOTAL

811,307

G20 SITE IMPROVEMENTS

Roadways and Parking Lots

	Bituminous concrete paving	110,600			-		
312000	gravel base 12"	4,096	cy	32.00	131,072		
321000	bituminous concrete 3"	12,289	sy	26.00	319,514		
321000	Vertical granite curbs	4,800	lf	34.00	163,200		
321000	Vertical granite curbs; radius	1,500	lf	39.00	58,500		
320000	Single solid lines, 4" thick	177	space	25.00	4,425		
320000	Wheelchair Parking	6	space	75.00	450		
320000	Other road markings	1	ls	7,500.00	7,500		
320000	HC curb cuts - Allowance	4	loc	350.00	1,400		
321724	New traffic signs	1	ls	5,000.00	5,000		

Pedestrian paving

	Concrete paving						
312000	gravel base; 8" thick	321	cy	38.00	12,198		
033000	concrete paving; 4" thick	12,942	sf	6.50	84,123		
	Asphalt paving						
312000	gravel base; 8" thick	321	cy	38.00	12,198		
033000	Asphalt paving; 3" thick	12,942	sf	3.00	38,826		

Concrete pavers

	Concrete pavers						
320000	sand bedding; 1" thick	8	cy	42.00	NIC		



Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITWORK							
56	033000	Precast concrete pavers	2,750	sf	15.00		NIC
57	320000	gravel base; 8" thick	68	cy	32.00		NIC
58	033000	concrete base; 4" thick	2,750	sf	5.00		NIC
59		<u>Site Improvements</u>					
60	323100	Bicycle racks	2	racks	3,500.00		7,000
61	323100	Trash receptacles	4	loc	750.00		3,000
62	323100	Fencing	275	lf	90.00		24,750
63	323100	Gate, single	2	ea	1,200.00		2,400
64	323100	Flag pole 30' and base	1	loc	3,000.00		3,000
65	323100	Modular block retaining wall w/ wood guardrail	360	lf	295.00		106,200
66	323100	Outdoor classroom; concrete paving	2,000	sf	10.00		20,000
67	323100	Raised planters/stone dust	4	loc	6,000.00		24,000
68	321724	Entrance sign with digital signage	1	ls	25,000.00		25,000
69		<u>Tennis Courts</u>	25,231				
70	310000	Gravel base - assumed 12" thick	934	cy	38.00		35,492
71	321217	Tennis court surface	2,803	sy	42.00		117,726
72	321217	Nets and posts	4	courts	2,500.00		10,000
73	129300	8' benches	4	ea	2,250.00		9,000
74	323114	Vinyl CL Fencing; 10'	660	lf	80.00		52,800
75	323114	Gate, double	2	ea	2,400.00		4,800
76	323100	Poured in place rubber safety surface	10,230	sf	16.00		163,680
77	323100	Bit concrete with safety surfacing	3,509	sf	5.00		NIC
78	323100	Play equipment	1	ls	140,000.00		140,000
79		<u>Landscaping & Plantings:</u>					
80	329200	Spread existing amended topsoil, 6" @ seeded areas	7,080	cy	14.00		99,120
81	329200	New seeded areas	143,000	sf	0.30		42,900
82		<u>Trees</u>					
83	329900	Red Maple 3 - 3.5" caliper	48	ea	1,000.00		Incl
84	329900	Shadow Serviceberry 8'-10'	20	ea	875.00		Incl
85	329900	Heritage River Birch 14'-16'	25	ea	1,375.00		Incl
86	329900	Commendation Elm 3 - 3.5" caliper	48	ea	1,000.00		Incl
87	329900	Pin Oak 3 - 3.5" caliper	48	ea	1,000.00		Incl
88	329900	<u>Deciduous Shrubs</u>					
89	329900	Red Twig Dogwood #3	75	ea	240.00		Incl
90	329900	Yellow Twig Dogwood #3	75	ea	240.00		Incl
91	329900	Red Sprite Winterberry #3	75	ea	240.00		Incl
92	329900	Northern Bayberry #3	75	ea	240.00		Incl
93	329900	Beach Plum #3	75	ea	240.00		Incl
94	329900	AmericanCranberrybush Viburnum #3	75	ea	240.00		Incl
95	329900	<u>Evergreen Shrubs</u>					
96	329900	Grey Owl Juniper #3	75	ea	240.00		Incl
97	329900	Dwarf Mugho Pine #3	75	ea	240.00		Incl
98							
99	329900	Ornamental Grasses #3	700	ea	40.00		Incl
100	329900	Perennials #1	900	ea	12.00		Incl
101	329200	Groundcover #1	2,250	ea	12.00		Incl
102	329200	Bioswales #1	500	ea	18.00		Incl
103	329200	Planting allowance	1	ls	150,000.00		150,000
104		SUBTOTAL					1,879,274
105							
106	G30	CIVIL MECHANICAL UTILITIES					
107		<u>Water supply</u>					
108	330000	New water supply; 8" CLDI	1,720	lf	90.00		154,800
109	330000	New water supply; 6" CLDI	84	lf	70.00		5,880
110	330000	New fire supply; 6" CLDI	15	lf	70.00		1,050
111	330000	New domestic supply; 4"	15	lf	50.00		750
112	330000	Connect to existing	1	loc	5,000.00		5,000
113	330000	Fire hydrants	4	loc	2,600.00		10,400
114	330000	FD connection	1	ea	2,000.00		2,000



Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
SITEWORK								
115	330000 Valves	10	ea	750.00	7,500			
116	<u>Sanitary sewer</u>							
117	330000 8" PVC	544	lf	60.00	32,640			
118	330000 6" PVC	70	lf	50.00	3,500			
119	330000 New SMH	4	loc	3,500.00	14,000			
120	330000 Grease trap	1	ls	12,000.00	12,000			
121	334000 Connect to existing line	1	ea	5,000.00	5,000			
122	<u>Storm Sewer</u>							
123	334000 24" CPP	570	lf	70.00	39,900			
124	334000 18" CPP	430	lf	60.00	25,800			
125	334000 15" CPP	750	lf	50.00	37,500			
126	334000 12" RCP	1,653	lf	65.00	107,445			
127	334000 Roof drain	275	lf	35.00	9,625			
128	334000 Manhole	25	loc	3,800.00	95,000			
129	334000 Connect to existing manhole	3	ea	1,500.00	4,500			
130	334000 Catch basins	44	loc	3,400.00	149,600			
131	334000 Double Catch basins	1	loc	6,000.00	6,000			
132	310000 WQS	6	ea	8,000.00	48,000			
133	334000 OCS	2	ea	5,000.00	10,000			
134	334000 Infiltration	6,000	sf	33.50	201,000			
135	<u>Gas</u>							
136	312000 Gas line- excavation only	300	lf	35.00	10,500			
137	SUBTOTAL					999,390		
138								
139	G40 ELECTRICAL UTILITIES							
140	<u>Power</u>							
141	Utility company charges (allow)	1	ls	20,000.00	By Owner			
142	Riser	1	ea	1,000.00	1,000			
143	Primary ductbank AA 2-5" PVC conduits, empty, concrete encased	380	lf	65.00	24,700			
144	Combination ductbank CC 6-4" PVC conduits, empty, concrete encased	270	lf	110.00	29,700			
145	Transformer by utility company				By Others			
146	Transformer pad	1	ea	2,500.00	2,500			
147	Secondary ductbank BB 4-4" PVC conduits, 1200A service, concrete encased	30	lf	270.00	8,100			
148	Generator ductbank EE 5-4" PVC conduits, 600A & 100A service & control wiring, concrete encased	50	lf	175.00	8,750			
149	<u>Communications</u>							
150	Riser	1	ls	1,000.00	1,000			
151	Telecom ductbank DD 4-4" PVC conduits, empty, concrete encased	140	lf	75.00	10,500			
152	<u>Site Lighting</u>							
153	Type SL1/2H	4	ea	3,000.00	12,000			
154	Type SL1/3H	12	ea	3,000.00	36,000			
155	Type SL1/4H	2	ea	3,000.00	6,000			
156	Type SL1/5L	2	ea	1,800.00	3,600			
157	Type SL2/3H	7	ea	3,600.00	25,200			
158	Type SL2/4H	1	ea	3,600.00	3,600			
159	Type SL6	2	ea	650.00	1,300			
160	Base	39	ea	350.00	13,650			
161	Lighting circuitry	5,000	lf	13.00	65,000			
162	Site Security System				NIC			
163	SUBTOTAL					252,600		
164								
165	TOTAL - SITE DEVELOPMENT							\$3,942,571

Schematic Design

James F. Peebles Elementary School Bourne, MA

6-Sep-16

GRAND SUMMARY

BUILDING COST				\$19,310,127
SITework				\$4,019,442
BUILDING DEMOLITION	55,000	GSF	\$6.50	\$357,500
HAZARDOUS WASTE REMOVAL				\$772,100

TOTAL DIRECT COST				\$24,459,169
DESIGN CONTINGENCY		10%		\$2,445,917
ESCALATION (fall 2017)		3%		\$807,153
GENERAL CONDITIONS		6.5%		\$1,589,846
GENERAL REQUIREMENTS		2.5%		\$732,552
INSURANCE		0.8%		\$240,277
P&P BOND (all trades)		1%		\$302,749
BUILDING PERMIT		0%		\$0
PROFIT		2.25%		\$687,997

TOTAL CONSTRUCTION COST				\$31,265,660
COST PER SF				\$430.18

VE LIST:

ALTERNATE NO. 1 - CHANGE STRAIGHT GRANITE CURB TO PRECAST	(\$119,829)
ALTERNATE NO. 2 - ADD INTERCONNECTING DOORS	\$20,020
ALTERNATE NO. 3- ADD CLASSROOM SINKS	\$112,522
ALTERNATE NO. 4 - ADD CLASSROOM UPPER CABINETS	\$38,969
ALTERNATE NO. 5 - INCREASE GENERATOR FROM 150 KW TO 250	\$26,791
ALTERNATE NO. 6 - DELETE SITE SIGN	(\$30,444)
ALTERNATE NO. 7 - DEDUCT DECORATIVE METAL SCREEN	(\$87,679)
ALTERNATE NO. 8 - DELETE ACADEMIC WING SLOPED ROOF	(\$93,900)

PROJECT:	James F. Peebles Elementary School	NO. OF SQ. FT.:	72,680
LOCATION:	Bourne, MA	COST PER SQ. FT.:	\$320.99
CLIENT:	Symmes Maini & Mckee Associates, Inc.		
DATE:	06-Sep-16		

No.: 15081

SUMMARY

	<u>TOTAL</u>	<u>PERCENT OF PROJECT</u>	<u>COST PER SF</u>
A. SUBSTRUCTURE			
A10 - FOUNDATIONS			
A1010 STANDARD FOUNDATIONS	899,840	4%	12.38
A1020 SPECIAL FOUNDATIONS	0	0%	0.00
A1030 SLAB ON GRADE	615,516	3%	8.47
A20 - BASEMENT CONSTRUCTION			
A2010 BASEMENT EXCAVATION	0	0%	0.00
A2020 BASEMENT WALLS	0	0%	0.00
B. SHELL			
B10 - SUPERSTRUCTURE			
B1010 FLOOR CONSTRUCTION	796,686	3%	10.96
B1020 ROOF CONSTRUCTION	1,371,216	6%	18.87
B20 - EXTERIOR ENCLOSURE			
B2010 EXTERIOR WALLS	2,981,882	13%	41.03
B2020 EXTERIOR WINDOWS	822,018	4%	11.31
B2030 EXTERIOR DOORS	117,000	1%	1.61
B30 - ROOFING			
B3010 ROOF COVERINGS	1,194,715	5%	16.44
B3020 ROOF OPENINGS	47,100	0%	0.65
C. INTERIORS			
C10 - INTERIOR CONSTRUCTION			
C1010 PARTITIONS	1,284,417	6%	17.67
C1020 INTERIOR DOORS	308,555	1%	4.25
C1030 FITTINGS	482,490	2%	6.64
C20 - STAIRS			
C2010 STAIR CONSTRUCTION	114,617	0%	1.58
C2020 STAIR FINISHES	15,315	0%	0.21
C30 - INTERIOR FINISHES			
C3010 WALL FINISHES	334,538	1%	4.60
C3020 FLOOR FINISHES	495,867	2%	6.82
C3030 CEILING FINISHES	457,320	2%	6.29
D. SERVICES			
D10 - CONVEYING			
D1010 ELEVATORS & LIFTS	115,860	0%	1.59
D1010 ESCALATORS & MOVING WALKS	0	0%	0.00
D1090 OTHER CONVEYING SYSTEMS	0	0%	0.00
D20 - PLUMBING			
D2010 PLUMBING	890,953	4%	12.26

James F. Peebles Elementary School - Schematic Design

	<u>TOTAL</u>	<u>PERCENT OF PROJECT</u>	<u>COST PER SF</u>
D30 - HVAC			
D3010 HVAC	2,629,431	11%	36.18
D40 - FIRE PROTECTION			
D4010 FIRE PROTECTION	290,720	1%	4.00
D50 - ELECTRICAL			
D5010 ELECTRICAL	2,403,078	10%	33.06
E. EQUIPMENT & FURNISHINGS			
E10 - EQUIPMENT			
E1010 COMMERCIAL EQUIPMENT	370,000	2%	5.09
E1020 INSTITUTIONAL EQUIPMENT	0	0%	0.00
E1030 VEHICULAR EQUIPMENT	0	0%	0.00
E1090 OTHER EQUIPMENT	0	0%	0.00
E20 - FURNISHINGS			
E 2010 FIXED FURNISHINGS	270,995	1%	3.73
E2020 MOVABLE FURNISHINGS	0	0%	0.00
F. SPECIAL CONSTRUCTION & DEMOLITION			
F10 - SPECIAL CONSTRUCTION			
F1010 SPECIAL STRUCTURES	0	0%	0.00
F1020 INTEGRATED CONSTRUCTION	0	0%	0.00
F1030 SPECIAL CONSTRUCTION SYSTEMS	0	0%	0.00
F1040 SPECIAL FACILITIES	0	0%	0.00
F1050 SPECIAL CONTROLS & INSTRUMENTAT.	0	0%	0.00
F20 - SELECTIVE BUILDING DEMOLITION			
F2010 BUILDING ELEMENTS DEMOLITION	0	0%	0.00
F2020 HAZARDOUS COMPONENTS ABATEMEN	0	0%	0.00
G. BUILDING SITEWORK			
G10 - SITE PREPARATION			
G1010 SITE CLEARING	173,587	1%	2.39
G1020 SITE DEMOLITION & RELOCATIONS	186,636	1%	2.57
G1030 SITE EARTHWORK	478,690	2%	6.59
G1040 HAZARDOUS WASTE REMEDIATION	0	0%	0.00
G20 - SITE IMPROVEMENTS			
G2010 ROADWAYS	687,762	3%	9.46
G2020 PARKING LOTS	0	0%	0.00
G2030 PEDESTRIAN PAVING	145,043	1%	2.00
G2040 SITE DEVELOPMENT	744,685	3%	10.25
G2050 LANDSCAPING	295,800	1%	4.07
G30 - SITE MECHANICAL UTILITIES			
G3010 WATER SUPPLY	140,272	1%	1.93
G3020 SANITARY SEWER	71,229	0%	0.98
G3030 STORM SEWER	753,538	3%	10.37
G3040 HEATING DISTRIBUTION	0	0%	0.00
G3050 COOLING DISTRIBUTION	0	0%	0.00
G3060 FUEL DISTRIBUTION	18,450	0%	0.25
G3090 OTHER SITE MECHANICAL UTILITIES	0	0%	0.00
G40 - SITE ELECTRICAL UTILITIES			
G4010 ELECTRICAL DISTRIBUTION	97,174	0%	1.34
G4020 SITE LIGHTING	226,576	1%	3.12

James F. Peebles Elementary School - Schematic Design	<u>TOTAL</u>	<u>PERCENT OF PROJECT</u>	<u>COST PER SF</u>
G4030 SITE COMMUNICATIONS & SECURITY	0	0%	0.00
G4090 OTHER SITE ELECTRICAL UTILITIES	0	0%	0.00
G90 - OTHER SITE CONSTRUCTION			
G9010 SERVICE AND PEDESTRIAN TUNNELS	0	0%	0.00
G9090 OTHER SITE SYSTEMS	0	0%	0.00

TOTAL	23,329,569	100%	320.99

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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A. SUBSTRUCTURE**A10 - FOUNDATIONS**

A1010 STANDARD FOUNDATIONS

310000 EARTHWORK

Building Earthwork:

General Cut to Elev 82	5,000	CY	7.50	37,500
Structural fill	520	CY	32.00	16,640
Foundation Excavation	3,500	CY	9.50	33,250
Backfill at frost wall and footings (reuse mat'l)	3,500	CY	9.50	33,250
Excavate footing, trench, raised slabs	1	LS	30,000.00	30,000
Perimeter Foundation drain		NIC		
Under slab Perf Drainage Piping		NIC		

033000 CAST-IN-PLACE CONCRETE

Ext. Wall Footing (1,679 lf):

4000 psi, NW, (incl. placement)	186	CY	178.00	33,108
Formwork	3,358	SFCA	6.25	20,988
Rebar	9,300	LBS	1.12	10,416
<i>*unit cost \$346.84</i>				

Column Footing 7'x7'x1'-6" (140 ea):

4000 psi, NW, (incl. placement)	338	CY	182.00	61,501
Formwork	7,840	SFCA	8.00	62,720
Rebar	25,344	LBS	1.15	29,145
<i>*unit cost \$453.86</i>				

Brace Frame Grade Beam (2'x2'x212 lf):

4000 psi, NW, (incl. placement)	31.5	CY	185.00	5,828
Formwork	848	SFCA	8.00	6,784
Rebar	4,725	LBS	1.15	5,434
<i>*unit cost \$572.87</i>				

15" Frost Wall - 4' (1,423 lf):

4000 psi, NW, (incl. placement)	264	CY	188.00	49,632
Formwork	11,384	SFCA	11.00	125,224
Brick Shelf	1,423	LF	14.00	19,922
Reinforcing steel	39,600	LBS	1.15	45,540
<i>*unit cost \$910.30</i>				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
15" Frost Wall - 8' (196 lf):				
4000 psi, NW, (incl. placement)	73	CY	188.00	13,724
Formwork	3,136	SFCA	13.00	40,768
Brick Shelf	196	LF	14.00	2,744
Reinforcing steel	10,950	LBS	1.15	12,593
<i>*unit cost \$956.55</i>				
Entry Plaza Wall Footing (154 lf):				
4000 psi, NW, (incl. placement)	17	CY	178.00	3,026
Formwork	308	SFCA	8.00	2,464
Rebar	850	LBS	1.15	978
<i>*unit cost \$380.44</i>				
Entry Plaza Wall (154 lf):				
4000 psi, NW, (incl. placement)	46	CY	188.00	8,648
Formwork	2,464	SFCA	12.00	29,568
Reinforcing steel	6,900	LBS	1.15	7,935
<i>*unit cost \$1,003.28</i>				
Canopy Piers (5 ea):				
4000 psi, NW, (incl. placement)	5.5	CY	188.00	1,034
Formwork	260	SFCA	15.00	3,900
Rebar	825	LBS	1.15	949
<i>*unit cost \$1,069.59</i>				
Misc. Plaza Work:				
Cast Entry Stair and Ramp	20	CY	800.00	16,000
Stair Foundation	172	LF	82.00	14,104
Loading Dock Wall Footing (95 lf):				
4000 psi, NW, (incl. placement)	11	CY	168.00	1,848
Formwork	190	SFCA	8.00	1,520
Rebar	550	LBS	1.15	633
<i>*unit cost \$363.68</i>				
8' Loading Dock Wall:				
4000 psi, NW, (incl. placement)	28	CY	182.00	5,096
Formwork	1,520	SFCA	12.00	18,240
Reinforcing steel	4,200	LBS	1.15	4,830
<i>*unit cost \$1,005.93</i>				
Loading Dock Stair Structure	1	LS	6,500.00	6,500
Misc. Interior Foundations:				
Piers and Pilaster	40	CY	900.00	36,000
12" Elevator mat	6	CY	575.00	3,450
Elevator Pit Wall	6	CY	950.00	5,700

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Equipment pads Café platform	1	LS w/C1030	5,000.00	5,000
070001 DAMPPROOF., WATERPROOF. & CAULKING*				
Elev. pit waterproofing	1	EA	4,800.00	4,800
072100 THERMAL INSULATION				
2" Rigid ext. found. insul w/prot.bd	7,260	SF	2.88	20,909
				----- 899,840
A1020 SPECIAL FOUNDATIONS				
		N/A		----- 0
A1030 SLAB ON GRADE				
033000 CAST IN PLACE CONCRETE				
5" Slab on Grade:				
4000 psi, NW, (incl. placement)	746	CY	182.00	135,764
6x6 W1.4 X W1.4	48,338	SF	1.58	76,374
Barrier One Admix	746	CY	60.00	44,757
Depressed slab edge form	200	LF	5.00	1,000
Control Joint	2,435	LF	5.25	12,784
Trowel Finish	48,338	SF	2.00	96,676
15 Mil poly - stego wrap	48,338	SF	0.82	39,637
				*unit cost \$8.42
Other Slabs:				
Loading Dock	636	SF	6.75	4,293
Entry Plaza and Ramp	1,511	SF	8.00	12,088
Thicken slab	10	CY	145.00	1,450
072100 THERMAL INSULATION				
2" Rigid Slab Insul.	48,338	SF	2.90	140,180

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
310000 EARTHWORK				
12" Gravel base @ SOG	1,804	CY	28.00	50,512

				615,516
TOTAL A10 FOUNDATIONS				1,515,356

B. SHELL**B10 - SUPERSTRUCTURE**

B1010 FLOOR CONSTRUCTION

051200 STRUCTURAL STEEL

Structural steel (13 lbs /sf)	158.22	TON	3,550.00	561,692
Moment connection - allow	10	EA	700.00	7,000
Shear stud -allow	2,450	EA	5.50	13,475

033000 CAST IN PLACE CONCRETE

4" Nominal NW Deck fill	24,342	SF	4.10	99,802
Barrier One Admix	24,342	SF	1.00	24,342

053100 STEEL DECKING

2" x 18 ga. Comp Deck	24,342	SF	2.85	69,375
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079500 EXPANSION CONTROL

Exp. jt assemblies - flr	80	LF	75.00	6,000
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078100 APPLIED FIREPROOFING

Fire proof Shaft , Expansion joint and Misc.	1	LS	15,000.00	15,000

				796,686

B1020 ROOF CONSTRUCTION

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<u>051200 STRUCTURAL STEEL</u>				
Structural steel (11.5 lbs /sf)	296.52	TON	3,675.00	1,089,696
Moment connection - allow	10	EA	700.00	7,000
Galv. Roof screen frame	4	TONS	4,100.00	16,400
Galv Roof Dunnage	5	TONS	4,100.00	20,500
Add Loading Dock roof and Deck	636	SF	20.00	12,720
<u>053100 STEEL DECKING</u>				
1 1/2" x 18 Ga comp flr deck - R1C	36,887	SF	2.85	105,128
1 1/2" x 20 Ga acoustical roof deck - gym/café	14,681	SF	7.30	107,171
078100 APPLIED FIREPROOFING				
Elevator shaft applied fireproofing -allow	1	LS	5,000.00	5,000
079500 EXPANSION CONTROL				
Exp. jt assemblies - flat roof	80	LF	95.00	7,600

				1,371,216
TOTAL B10 SUPERSTRUCTURE				2,167,901

B20 - EXTERIOR ENCLOSURE**B2010 EXTERIOR WALLS****040001 MASONRY***

CMU Back-up

12" Gym	6,757	SF	22.50	152,033
8" Kitchen and Receiving	6,981	SF	22.50	157,073

Exterior Building Veneer:

Brick Veneer	31,447	SF	30.75	966,995
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4" Precast Trim:

Window sill	315	LF	44.00	13,860
Precast Base	1,000	SF	53.00	53,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Masonry flashing	1	LS	20,000.00	20,000
Staging	45,500	SF	1.75	79,625
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Galv. Lintel - Window and Doors	438	LF	38.00	16,644
Green Roof Guardrail	44	LF	300.00	13,200
Galv steel w/ Perf screen	720	SF	100.00	72,000
Entry Plaza and Ramp Railing	171	LF	265.00	45,315
Misc. Exterior Building Metals	1	LS	20,000.00	20,000
054000 COLD FORMED METAL FRAMING				
Exterior Wall:				
6" x 18 ga Stud - typical	24,268	SF	7.75	188,077
1/2" Dens glass sheathing	24,268	SF	2.85	69,164
Entry Canopy:				
Frame Ceiling	1,100	SF	8.00	8,800
1/2 Dens glass sheathing	1,100	SF	3.75	4,125
Bldg Overhang:				
Frame Soffit	1,200	SF	8.00	9,600
1/2 Dens glass sheathing	1,100	SF	3.75	4,125
Receiving Canopy (1 loc):				
Frame Soffit	1	LS	5,000.00	5,000
1/2 Dens glass sheathing	1	LS	2,500.00	2,500
072100 THERMAL INSULATION				
4" Mineral Wool Insulation	38,006	SF	3.85	146,323
070001 DAMPPROOF., WATERPROOF. & CAULKING*				
Air and Vapor barrier	38,006	SF	5.75	218,535
074000 METAL WALL PANEL				
Exterior Wall:				
Zinc Panel	2,796	SF	70.00	195,720
Solid Phenolic Panel	3,458	SF	72.00	248,976

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Alum Composite Panel	938	SF	50.00	46,900
Armstrong " Wood works" Entry Canopy	1,200	SF	36.00	43,200
Alum Trim:				
Polycarbonate trim	891	SF	40.00	35,640
Clerestory Trim	150	SF	40.00	6,000
Misc. Trim	1	LS	20,000.00	20,000
089000 LOUVERS AND VENTS				
Alum. Louvers- allow	1	LS	5,000.00	5,000
092116 GYPSUM DRYWALL				
1 Lyr gyp @ ext. wall	20,000	SF	2.20	44,000
Stucco Soffit Panel: Canopy Soffit	1,418	SF	21.00	29,778
090007 PAINTING*				
Exterior painting	1	LS	5,000.00	5,000
Loading Dock Canopy	468	SF	2.00	936
101400 SIGNAGE				
Main Entrance: 36" Canopy letter	23	EA	485.00	11,155
Misc. ext. & building signage	1	LS	20,000.00	20,000
070001 DAMPPROOF., WATERPROOF. & CAULKING*				
Ext wall exp joints at Bldg Separation	112	LF	32.00	3,584
				----- 2,981,882

B2020 EXTERIOR WINDOWS

061000 ROUGH CARPENTRY

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Blocking - perim. open.	3,170	LF	5.50	17,435
*Includes window, storefront, curtain wall, doors & louvers				
070001 DAMPPROOF., WATERPROOF. & CAULKING*				
Window/Dr perim -sealant	3,170	LF	12.00	38,040
Air & vapor barrier perim open.	3,170	LF	7.50	23,775
080001 METAL WINDOWS*				
Alum. windows	2,049	SF	85.00	174,165
Aluminum Storefront	4,854	SF	88.00	427,152
Clerestory skylight window	112	SF	88.00	9,856
084500 FIBERGLASS-SANDWICH-PANEL-ASSEMBLIES				
Kalwall Sandwich panel	727	SF	60.00	43,620
107113 EXTERIOR SUN CONTROL				
South Elev Alum Sun Shade (19 ea):				
Alum. Sun screen head	136	LF	225.00	30,600
Alum sunscreen Jamb	255	LF	225.00	57,375

				822,018
B2030 EXTERIOR DOORS				
080001 METAL WINDOWS*				
Exterior Alum-Framed Storefronts/Entries:				
Alum. Entry - dbl	4	EA	8,200.00	32,800
Alum. Gym - dbl	2	EA	8,200.00	16,400
Alum. Stair - dbl	2	EA	8,200.00	16,400
Alum Green Roof - sgl	1	EA	4,000.00	4,000
Innovation Lab Door - 7x8	2	EA	7,800.00	15,600
081100 METAL DOORS AND FRAMES				
Exterior HM Framed, HM Door, Glass, Glazing & HDW :				
Receiving w/ Transom - sgl	1	EA	2,300.00	2,300
08350 SECTIONAL OVERHEAD DOORS				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Glazed Overhead Door	2	EA	9,000.00	18,000
Receiving Over head Door	1	EA	3,800.00	3,800
087100 DOOR HARDWARE				
Auto opener - allow	1	LOC	7,500.00	7,500
*Finish Hardware also included in 081100 & 080001				
090007 PAINTING*				
Paint ext HM dr & frame - sgl	1	EA	200.00	200

				117,000
TOTAL B20 - EXTERIOR ENCLOSURE				3,920,900

B30 - ROOFING

B3010 ROOF COVERINGS

061000 ROUGH CARPENTRY

Roof Blocking @:

Roof Blocking - Allow	51,568	SF	1.20	61,882
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050001 MISCELLANEOUS & ORNAMENTAL IRON*

Ext. roof ladder (3 loc)	1	LS	10,000.00	10,000
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070002 ROOFING AND FLASHING*

PVC Roof w/ Adhered Ribs - classroom	7,884	SF	16.50	130,086
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PVC Roof w/ Adhered Ribs - GYM	14,681	SF	16.70	245,173
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PVC Roof System - Complete	27,737	SF	15.25	422,989
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Green Roof - Complete	1,266	SF	40.00	50,640
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Walk pads 18" - allow	1	LS	5,000.00	5,000
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Tapered insul cricket premium	7,500	SF	1.50	11,250
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Flash high roof drain	28	EA	125.00	3,500
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Membrane flashing	1	LS	30,000.00	30,000
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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Loading Dock Roof and Flashing	636	SF	20.00	12,720
Alum. Sheet Metal Flashing and Trim:				
Base flash horiz wall	724	LF	35.00	25,340
Canopy Roof Coping	125	LF	26.00	3,250
Flat Roof Coping	1,266	LF	30.00	37,980
Sloped Rake Trim	239	LF	30.00	7,170
Slope Roff Fascia and Gutter	765	LF	85.00	65,025
Alum Downspout	120	LS	38.00	4,560
Flat roof expansion joint	70	LF	45.00	3,150
Misc. Alum. Flashing	1	LS	20,000.00	20,000
Metal Panel Roof Screen	1,000	SF	45.00	45,000

				1,194,715
B3020 ROOF OPENINGS				
086200 METAL-FRAMED SKYLIGHTS				
Sloped Skylight	304	SF	150.00	45,600
077200 ROOF ACCESSORIES				
Elev. louver	1	EA	1,500.00	1,500

				47,100
TOTAL B30 ROOFING				1,241,815

C. INTERIORS**C10 - INTERIOR CONSTRUCTION**

C1010 PARTITIONS

040001 MASONRY*

CMU Partitions:

12" CMU - Gym	3,198	SF	21.25	67,958
8" CMU - Caf�/Kitchen	7,296	SF	21.25	155,040
8" CMU - Gym bathroom/stage	3,328	SF	21.25	70,720

050001 MISCELLANEOUS & ORNAMENTAL IRON*

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
CMU Partitions :				
Seismic clip (4' oc)	192	EA	72.00	13,824
Loose lintels	1	LS	15,000.00	15,000
080001 METAL WINDOW				
Interior Alum Storefront:				
Vest main entry	98	SF	95.00	9,310
Media Center - 7' (21 lf)	147	SF	95.00	13,965
Studio - 7' (28 lf)	196	SF	95.00	18,620
081100 METAL DOORS AND FRAMES				
Interior HM Frame:				
Admin Control Window (1 ea)	16	SF	44.00	704
Mail/Copy Window (1 ea)	16	SF	44.00	704
088002 GLASS & GLAZING*				
Glass & Glazing @ Interior HM Frame:				
Admin Control Window (1 ea)	16	SF	50.00	800
Mail/Copy Window (1 ea)	16	SF	36.00	576
061000 ROUGH CARPENTRY				
Interior blocking	72,680	GSF	0.30	21,804
Misc. Carpentry	72,680	GSF	0.50	36,340
092900 GYPSUM BOARD ASSEMBLIES				
Drywall Partition - 14' High Typical:				
Typical Interior	23,892	SF	13.75	328,515
Chase Partition	2,738	SF	9.00	24,642
2 HR Stair Partition	1,646	SF	15.00	24,690
Elevator Shaft	1,003	SF	15.50	15,547
Acoustical Partition	1,189	SF	21.00	24,969
Corridor Partition	19,938	SF	13.75	274,148
Misc. shaft, column enclosure, misc.	72,680	GSF	1.00	72,680
090009 PAINTING*				
Paint HM window/sidelight	484	SF	5.50	2,662

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
102220 OPERABLE PARTITIONS				
Stage Folding Partition -15' (2 ea)	960	SF	95.00	91,200
Stage Curtain		NIC		

				1,284,417
C1020 INTERIOR DOORS				
081100 METAL DOORS AND FRAMES				
H.M Door Frames:				
Single Door	93	EA	320.00	29,760
Double Door	15	EA	345.00	5,175
Sidelight and Transom				
Side light (43 ea)	452	SF	42.00	18,984
Transom 2'x3' (43 ea)	258	SF	42.00	10,836
083326 OVERHEAD COILING GRILLES				
Servery Grill	117	SF	95.00	11,115
Security Grill Lobby		N/A		
081400 WOOD DOORS				
Interior Wood Door Glass & Glazing:				
Art Bi-parting slider - dbl	1	LS	5,500.00	5,500
Admin Glazed - sgl	16	EA	650.00	10,400
Bathroom - sgl	21	EA	525.00	11,025
Classroom glazed - sgl	30	EA	650.00	19,500
Corridor glazed - dbl	2	EA	1,300.00	2,600
Corridor glazed - sgl	2	EA	650.00	1,300
Gym glazed - dbl	2	EA	650.00	1,300
Mech/Kitchen - sgl	16	EA	500.00	8,000
Media Center glazed - dbl	1	EA	1,300.00	1,300
Music glazed - dbl	1	EA	1,300.00	1,300
Music glazed - sgl	2	EA	650.00	1,300
Platform - sgl	3	EA	500.00	1,500
Receiving - dbl	2	EA	1,000.00	2,000
Stair glazed - dbl	2	EA	1,450.00	2,900
Storage - dbl	5	EA	1,000.00	5,000
Storage - sgl	3	EA	500.00	1,500
080001 METAL WINDOWS*				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Aluminum Door, Frame, Glass, Glazing & Hdw:				
Alum. Vest - dbl	2	EA	8,100.00	16,200
087100 DOOR HARDWARE				
Art Bi-parting slider - dbl	1	LS	3,000.00	3,000
Admin Glazed - sgl	16	EA	700.00	11,200
Bathroom - sgl	21	EA	700.00	14,700
Classroom glazed - sgl	30	EA	850.00	25,500
Corridor glazed - dbl	2	EA	3,500.00	7,000
Corridor glazed - sgl	2	EA	2,200.00	4,400
Gym glazed - dbl	2	EA	3,500.00	7,000
Mech/Kitchen - sgl	16	EA	500.00	8,000
Media Center glazed - dbl	1	EA	3,500.00	3,500
Music glazed - dbl	1	EA	1,700.00	1,700
Music glazed - sgl	2	EA	1,200.00	2,400
Platform - sgl	3	EA	1,000.00	3,000
Receiving - dbl	2	EA	1,200.00	2,400
Stair glazed - dbl	2	EA	3,500.00	7,000
Storage - dbl	5	EA	700.00	3,500
Storage - sgl	3	EA	450.00	1,350
088002 GLASS & GLAZING*				
Glass & Glazing @ Interior HM Frame:				
Side light (43 ea)	452	SF	36.00	16,272
Transom 2'x3' (43 ea)	258	SF	36.00	9,288
*Glass & Glazing included in Sections 080005 & 082500				
090007 PAINTING*				
Paint HM door frame - sgl	93	EA	75.00	6,975
Paint HM door frame - dbl	15	EA	125.00	1,875
*Excludes painting prefinished wood doors				

				308,555
C1030 FITTINGS				
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Railings:				
Second Floor Opening	54	LF	375.00	20,250
Ramp Guard Rail	60	LF	325.00	19,500

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Ramp Wall Rail	18	LF	125.00	2,250
Platform equip. support	1	LS	2,500.00	2,500
Gym equip. support	1	LS	10,000.00	10,000
Misc. metals	72,680	GSF	0.75	54,510
070001 DAMPPROOF., WATERPROOF. & CAULKING*				
Int. joint sealants	72,680	GSF	0.50	36,340
062000 FINISH CARPENTRY				
Typ. Alum window sill - p lam	378	LF	45.00	17,010
Kalwall window sill - p lam	1	LS	4,000.00	4,000
Wood cap @ mtl corridor locker	285	LF	50.00	14,250
Proscenium cased opening 16'h	2	EA	7,500.00	15,000
Cafeteria Display	1	LS	30,000.00	30,000
061000 ROUGH CARPENTRY				
Raised Platforms Framing:				
Frame Raised Platform	982	SF	20.00	19,640
Frame Ramp Structure	150	SF	25.00	3,750
078400 FIRESTOPPING				
Fire stopping	72,680	GSF	0.22	15,990
083100 ACCESS DOORS AND PANELS				
Access doors & panels - allow	1	LS	20,000.00	20,000
102813 TOILET ACCESSORIES				
Class & Work rooms:				
Towel dispenser	25	EA	55.00	1,375
Soap dispenser	25	EA	35.00	875
Toilet Rooms:				
Towel dispenser & disposal	20	EA	250.00	5,000
Soap dispenser	28	EA	35.00	980
Toilet tissue dispenser	32	EA	44.00	1,408
Coat hook	32	EA	18.00	576
Grab bars	38	EA	85.00	3,230
Mirrors - framed (18"wx30"h)	28	EA	190.00	5,320

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Sanitary napkin disposal	10	EA	60.00	600
Sanitary napkin dispenser	10	EA	60.00	600
Baby changing sta. - allow	2	EA	450.00	900
Health office TR changing sta. - allow	1	EA	450.00	450
Misc. accessories	1	LS	2,000.00	2,000
Mop and broom holders -allow	2	EA	155.00	310
105100 METAL LOCKERS				
Corridor 15"x12"x 60" - dbl tier	225	EA	255.00	57,375
Corridor locker bases - Wood	285	LF	28.00	7,980
Custodian 12"x12"x60" - allow	4	EA	240.00	960
Kitchen - 12"x12"x60"	5	EA	240.00	1,200
104413 FIRE PROTECTION SPECIALTIES				
Fire extinguisher & cab - allow	12	EA	450.00	5,400
101400 SIGNAGE				
Interior signage	72,680	GSF	0.20	14,536
102113 TOILET COMPARTMENTS				
Floor/Wall MT. HDPE Partition:				
Standard	12	EA	1,150.00	13,800
Barrier free	8	EA	1,375.00	11,000
Urinal screen	4	EA	275.00	1,100
102123 CUBICLES				
Curtain and Track:				
Health suite-allow	1	EA	1,650.00	1,650
101100 VISUAL DISPLAY BOARDS				
Classroom/Project Area & Work Room:				
16' Marker Board w/ Tack strip	35	EA	1,300.00	45,500
12' Marker Board w/ Tack strip	2	EA	1,000.00	2,000
6' Tack Board	35	EA	325.00	11,375

				482,490
TOTAL C10 - INTERIOR CONSTRUCTION				2,075,461

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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C20 - STAIRS

C2010 STAIR CONSTRUCTION

050001 MISCELLANEOUS & ORNAMENTAL IRON*

Stair No 1:

Metal pan tread	108	LFT	92.00	9,936
Metal pan landing	45	SF	75.00	3,375
Stringer	40	LF	138.00	5,520
Wall rail	12	LF	115.00	1,380
Guardrail	55	LF	375.00	20,625
Cane Rail	23	LF	120.00	2,760

Stair No 2:

Metal pan tread	92	LFT	92.00	8,464
Metal pan landing	45	SF	75.00	3,375
Stringer	40	LF	138.00	5,520
Wall rail	22	LF	115.00	2,530
Guardrail	38	LF	325.00	12,350

Stair No 3:

Metal pan tread	92	LFT	92.00	8,464
Metal pan landing	45	SF	75.00	3,375
Stringer	40	LF	138.00	5,520
Wall rail	22	LF	115.00	2,530
Guardrail	38	LF	325.00	12,350

033000 CAST IN PLACE CONCRETE

Metal Pan Stair Fill (5 ft):

Tread	292	LFT	12.00	3,504
Landing	135	SF	9.00	1,215

061000 ROUGH CARPENTRY

Frame Platform Step	76	LFT	24.00	1,824
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114,617

C2020 STAIR FINISHES

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
0620000 FINISH CARPENTRY				
Platform wood tread and riser	76	LF	38.00	2,888
090005 RESILIENT FLOORING*				
Stair Hall (5 ft):				
Rubber tread & riser	292	LFT	12.25	3,577
Rubber landing	135	SF	10.00	1,350
090009 PAINTING*				
Paint stair & rail	3	FLT	2,500.00	7,500

				15,315
TOTAL C20 - STAIRS				129,932

C30 - INTERIOR FINISHES

C3010 WALL FINISHES

062000 FINISH CARPENTRY

P.L. Wall Panel:

36" Corridor	2,847	SF	25.00	71,175
36" Café	440	SF	25.00	11,000

090003 TILE*

Ceramic Wall Tile:

Bathroom Wet wall tile - 9'	2,007	SF	17.00	34,119
Kitchen Survey - 8'	1,000	SF	17.00	17,000

090009 PAINTING*

Interior painting - walls *Excludes vinyl wall covering	72,680	GSF	1.90	138,092
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Fabric Wrapped Acoustical Panels

Café	600	SF	26.00	15,600
Music Rm	400	SF	26.00	10,400

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
098414 WOOD FIBER ACOUSTICAL PANELS				
Tectum Wall Panel - 2 walls 10' High	2,064	SF	18.00	37,152

				334,538
C3020 FLOOR FINISHES				
033000 CAST IN PLACE CONCRETE				
Concrete Slab Sealant/Hardener: Mech & storage	2,968	SF	1.25	3,710
090002 TILE*				
090160 VAPOR MITIGATION AT SLAB				
*Barrier One Admix included w/033000				
090005 RESILIENT FLOORING*				
Rubber Flooring:				
Ramp	302	SF	9.50	2,869
Stair Hall	451	SF	9.50	4,285
Vinyl Plank Flooring:				
Corridor	12,471	SF	7.35	91,662
Cafeteria	4,377	SF	7.35	32,171
VCT:				
Classroom	29,669	SF	3.75	111,259
Music Rm Rubber Flooring	1,106	SF	12.00	13,272
Resilient wall base	7,300	LF	2.30	16,790

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
096400 WOOD FLOORING				
Gymnasium Wood Floor	6,050	SF	17.50	105,875
Platform Wood Floor	1,006	SF	14.00	14,084
Vented Base	300	LF	30.00	9,000
098500 RESINOUS FLOORING				
Bathroom: Epoxy Flooring	2,297	SF	14.25	32,732
Kitchen: Epoxy Flooring	2,398	SF	13.00	31,174
096800 CARPETING				
Carpet - Administration	2,339	SF	5.00	11,695
Carpet - Media Center	3,058	SF	5.00	15,290
124813 ENTRANCE MATS & FRAMES		W / E 2010		----- 495,867
C3030 CEILING FINISHES				
092116 GYPSUM DRYWALL				
Gyp Ceiling: Typical	3,441	SF	9.50	32,690
Interior Soffit and Ceiling change	1	LS	20,000.00	20,000
095100 ACOUSTICAL CEILINGS*				
Acoustical Ceiling Systems:				
ACT - 1	3,335	SF	4.85	16,175
ACT - 2	27,448	SF	4.45	122,144
ACT - 3	4,838	SF	5.25	25,400
ACT - 4	1,917	SF	5.50	10,544
ACT - 5	1,986	SF	15.00	29,790
ACT - 6	1,008	SF	35.00	35,280
ACT - 2 (corr. Labeled 2 x 7)	13,098	SF	4.45	58,286

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Suspended fiberglass panels	105	EA	720.00	75,600
090009 PAINTING*				
Gyp ceiling/soffit painting	3,441	SF	1.10	3,785
Exposed Structure Painting:				
Gym and Caf�	10,748	SF	2.40	25,795
Mech/elec rm & storage	1,833	SF	1.00	1,833

				457,320
TOTAL C30 - INTERIOR FINISHES				1,287,726

D. SERVICES**D10 - CONVEYING**

D1010 ELEVATORS & LIFTS

142424* HOLELESS HYDRAULIC ELEVATORS

Elevator (1 door 3500#)	2	STOP	55,000.00	110,000
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050001 MISCELLANEOUS & ORNAMENTAL IRON*

Elevator:

Pit ladder	1	EA	1,250.00	1,250
Frame	1	EA	4,000.00	4,000
Sump grate	1	EA	610.00	610

115,860

TOTAL D10 - CONVEYING	115,860
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D20 - PLUMBING

D2010 PLUMBING

220000 PLUMBING*

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
220001 PLUMBING*				
Fixtures:				
P-1 Wall hung water closet	13	EA	1,750.00	22,750
P1A Wall hung HC water closet	19	EA	1,750.00	33,250
P-2 Urinal	4	EA	1,725.00	6,900
P-3 Wall hung lav	28	EA	1,270.00	35,560
P-4 Mop sink	2	EA	1,500.00	3,000
P-5/A Drinking fountain	2	EA	2,000.00	4,000
P-6 Nurse Sink	1	EA	1,500.00	1,500
P-10 Classroom Sink	4	EA	1,400.00	5,600
Art Room Sink	3	EA	2,150.00	6,450
Dishwasher conn	1	EA	500.00	500
Fixture Connection	76	EA	325.00	24,700
Hose bib	5	EA	220.00	1,100
Wall hydrant	5	EA	270.00	1,350
Sensor flush valve	28	EA	500.00	14,000
Sensor Lav faucet	36	EA	500.00	18,000
Kitchen connections	1	LS	25,000.00	25,000
Gas Fired Hot Water Supply:				
BLR-1 - 400 mbh	1	EA	24,000.00	24,000
BLR-1 - 150 mbh	1	EA	12,500.00	12,500
Acid neutralization	1	LS	600.00	600
Hot Water Storage Tank:				
WST-1	1	EA	6,500.00	6,500
Pump Schedule:				
RP-1	2	EA	1,100.00	2,200
HP-1	12	EA	1,100.00	13,200
Water Heater(2 EA) Piping, valve and trim	1	LS	18,000.00	18,000
Grease Interceptor:				
GI - 1 Interior	1	EA	15,500.00	15,500
GEGI - 1 Precast grease trap (2500 gal)		W /SITE		
Mixing Valve:				
MV-1	4	EA	2,167.00	8,668
MV-2	4	EA	800.00	3,200
Roof/Storm Drain System				
Underground D/W/V Pipe				
Underslab - allow	400	LF	45.00	18,000
Above Ground D/W/V Pipe:				
4"-6" Piping	1,500	LF	44.50	66,750
RD-1	31	EA	1,350.00	41,850
Allow for Overflow lines	1	LS	30,000.00	30,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Sanitary System				
Underground D/W/V Pipe:				
1 1/2" Trap primer	1	LS	4,000.00	4,000
Underslab - allow	750	LF	42.00	31,500
FD-1	9	EA	750.00	6,750
Above Ground D/W/V Pipe:				
2"-4" Piping	2,350	LF	36.00	84,600
FD-1	4	EA	750.00	3,000
Copper Pipe:				
1/2" - 3"	4,600	LF	35.00	161,000
1" Pipe Insulation:				
1/2" - 3"	4,600	LF	8.50	39,100
Gas Pipe				
Gas venting	125	LF	60.00	7,500
RTU's	425	LF	55.00	23,375
Boiler Room	100	LF	75.00	7,500
Kitchen	250	LF	40.00	10,000
6" Service & meter install	1	LS	5,000.00	5,000
Boiler heater connection	1	LS	2,500.00	2,500
RTU conn	3	EA	1,500.00	4,500
Misc. Valves	1	LS	2,000.00	2,000
Underground Water Service:				
4"	12	LF	125.00	1,500
Water service rough-in	1	LS	7,500.00	7,500
Test and GC	1	LS	25,000.00	25,000

				890,953
TOTAL D20 - PLUMBING	\$12.26	/sf		890,953

D30 - HVAC

D3010 HVAC

230000 HVAC*

Building:

Rooftop Air Handling Units (gas heat, dx cooling w/ erv):

RTU-1 Classrooms	11,000	CFM	13.25	145,750
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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
RTU-2 Admin	3,000	CFM	13.25	39,750
Air Handling Unit:				
AHU - 1 - Caf� Stage Art	10,000	CFM	7.50	75,000
AHU - 2 - Gym	7,500	CFM	7.50	56,250
MAU - 1	1	LS	17,500.00	17,500
Ductless Cooling Unit Systems - (2 ton) :				
DCUe-1	1	EA	9,500.00	9,500
DCUe-2	1	EA	9,500.00	9,500
Hot Water Boiler:				
B1 (1200 MBH)	1	EA	26,500.00	26,500
B2 (1200 MBH)	1	EA	26,500.00	26,500
B3 (1200 MBH)	1	EA	26,500.00	26,500
Boiler valve and trim	1	LS	22,000.00	22,000
Boiler flue	120	LS	175.00	21,000
Chemical feed	1	LS	7,500.00	7,500
HW Tanks:				
ET-1	1	EA	3,500.00	3,500
ET-2	1	EA	3,500.00	3,500
BT-1	1	EA	7,500.00	7,500
Water Pumps:				
P1 (100 gpm)	1	EA	8,500.00	8,500
P2 (400 gpm)	1	EA	8,500.00	8,500
P3 (210 gpm)	1	EA	8,500.00	8,500
P4 (210 gpm)	1	EA	8,500.00	8,500
Air Cooled Liquid Chiller:				
CH-1 (70 ton)	1	EA	85,000.00	85,000
Chiller rough-in, valves and gauges	1	LS	9,500.00	9,500
Expansion tank and air valves	1	EA	5,500.00	5,500
Glycol feed system	1	LS	7,500.00	7,500
Air separator	1	EA	3,500.00	3,500
Sound Attenuators:				
SA-1S thru SA-16R	62,000	CFM	0.70	43,400
Hot Water Heating:				
RP-1, 2, & 3	900	LF	140.00	126,000
Fin tube radiator	200	LF	90.00	18,000
Control valve	50	EA	325.00	16,250
Isolation valve	100	EA	95.00	9,500
Balance Valve	100	EA	95.00	9,500

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Unit Heaters (Heating Hot Water):				
UH-1 thru UH-33:				
CUH - wall mtd	3	EA	2,200.00	6,600
CUH - clg mtd	5	EA	3,100.00	15,500
Unit htr	4	EA	975.00	3,900
Control valve	12	EA	325.00	3,900
Isolation valve	24	EA	95.00	2,280
Balance Valve	24	EA	95.00	2,280
Displacement Diffusers:				
DD-1,2,3,	48	EA	850.00	40,800
Exhaust Fans:				
EF-1 thru 10	10	EA	2,450.00	24,500
HVAC PIPE:				
Hot Water Pipe	72,680	SF	3.80	276,184
Chilled Water Pipe	72,680	SF	2.75	199,870
Ductwork and Accessories				
Galvanized - supply/return	62,000	LBS	9.25	573,500
Welded kitchen exh. - allow	1,500	LBS	17.50	26,250
Stainless steel ductwork	1,200	LBS	14.00	16,800
Duct Insul. - supply only	4,000	SF	4.15	16,600
Duct Liner	8,000	SF	6.25	50,000
2 hr fire wrap	600	SF	12.00	7,200
Supply:				
Registers:				
Supply Grilles/registers	50	EA	315.00	15,750
Supply Dampers	1	LS	15,000.00	15,000
4' Linear diffuser	15	EA	285.00	4,275
Flex conn	65	EA	72.00	4,680
Return:				
Registers:				
Return Grilles/registers	180	EA	230.00	41,400
Flex connection	180	EA	85.00	15,300
Wire mesh screen	4	EA	125.00	500
Return Dampers	1	LS	12,000.00	12,000
Misc. HVAC				
Elev shaft Ventilation	1	EA	3,000.00	3,000
Fire stopping	1	LS	20,000.00	20,000
Auto temp control	72,680	SF	4.00	290,720
Seismic and vibration	1	LS	25,000.00	25,000
Test and Balance	72,680	SF	0.65	47,242
As built, coordination and misc.	1	LS	3,000.00	3,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL

				2,629,431
TOTAL D30 - HVAC	\$36.18	/sf		2,629,431

D40 - FIRE PROTECTION

D4010 FIRE PROTECTION

210000 FIRE SUPPRESSION

Sprinkler System	72,680	SF	4.00	290,720
Fire Pump		nic		

				290,720

TOTAL D40 - FIRE PROTECTION	\$4.00	/sf		290,720
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D50 - ELECTRICAL

D5010 ELECTRICAL

260000 ELECTRICAL*

Gear & Feeders:

Meter socket	1	EA	763.00	763
EMT-1 1/4"C- w/PS	30	LF	8.25	248
Main swbrd - 1200A 277/480v	1	EA	21,024.00	21,024
Swbrd digital metering	1	EA	6,076.00	6,076
SPD 1200A surge device	1	EA	1,538.00	1,538
Main switchboard grounding grid	1	EA	932.00	932
SPD pnl mtd surge protective device	8	EA	744.00	5,952
SPD grounding	9	EA	219.00	1,971
T xfmr T4 30 kva	2	EA	3,432.00	6,864
T xfmr T5 45 kva	4	EA	5,304.00	21,216
T xfmr T7 112.5 kva	1	EA	7,920.00	7,920
Xfmr grounding	7	EA	234.00	1,638
UPS 24 kw UPS system	1	EA	24,880.00	24,880
EPO em pwr off w/guard	1	EA	326.00	326
EL CT elev controller - wire	1	EA	144.00	144
25 15 HP elev mtr conn	1	EA	122.00	122
30/20!/3 elev ds	1	EA	233.00	233
100/70A/3 elev DS	1	EA	319.00	319

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
UP system grounding	1	EA	341.00	341
100A 3P disc sw	3	EA	269.00	807
LP1A 225A	1	EA	3,099.00	3,099
PP1A 225A	1	EA	3,099.00	3,099
MHP1A 400A	1	EA	3,740.00	3,740
HP1A 200A	1	EA	3,027.00	3,027
KPP1 200A	1	EA	3,027.00	3,027
EP1A 400A 84 P	1	EA	4,928.00	4,928
EHP1A 225A	1	EA	3,099.00	3,099
ELP1A 100A	1	EA	2,608.00	2,608
TEPB 100A	1	EA	2,608.00	2,608
4DP1P 800A	1	EA	5,228.00	5,228
P1B 200A 84P	1	EA	3,884.00	3,884
MP1B 100A	1	EA	2,608.00	2,608
LP1B 125A	1	EA	2,680.00	2,680
EHP1B 225A	1	EA	3,099.00	3,099
EPP1B 100A	1	EA	2,608.00	2,608
EP2B 100A	1	EA	2,608.00	2,608
PP1B 225A 84P	1	EA	3,884.00	3,884
MP2B 100A	1	EA	2,608.00	2,608
W/C-4#600M	200	LF	43.84	8,768
EMT-3/4"C-2#14	770	LF	4.80	3,696
EMT-1 1/2"C-14#14	170	LF	12.82	2,179
EMT-1 1/4"C-4#3 & 1#8	120	LF	13.06	1,567
EMT-1 1/4"C-3#2 & 1#8	30	LF	12.83	385
EMT-3/4"C-5#12	230	LF	5.85	1,346
EMT-4"C-4#500 & 1#3	600	LF	55.30	33,180
EMT-2 1/2"C-4#4/0 & 1#4	480	LF	27.74	13,315
EMT-2"C-4#3/0 & 1#6	100	LF	22.18	2,218
EMT-3"C-4#350 & 1#1/0	130	LF	37.76	4,909
EMT-1 1/2"C-4#1 & 1#6	890	LF	15.48	13,777
G gen/set pad	1	EA	527.00	527
G gent set pad grndg	1	EA	663.00	663
G gen/set epo	1	EA	616.00	616
G 150kw gen/set (gas)	1	EA	48,024.00	48,024
G bldg mtd g/s epo	1	EA	663.00	663
ANN g/s remote annun	1	EA	1,212.00	1,212
400A/3 output c/b	1	EA	216.00	216
100A/3 output s/b	1	EA	144.00	144
Internal pnl wiring	1	EA	2,046.00	2,046
ATS-LS 100A-4P xfer sw	1	EA	4,332.00	4,332
ATS-DS 600A-4P xfer sw	1	EA	10,648.00	10,648
Gen/set receive rig & set	1	EA	7,652.00	7,652
Interior Lighting	72,680	GSF	7.00	508,760

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Lighting Control	72,680	GSF	1.50	109,020
Fire Alarm	72,680	GSF	2.10	152,628
Device and Convenience outlet	72,680	GSF	1.35	98,118
Bi Directional Antenna		NIC		
Mechanical Wiring	72,680	GSF	1.35	98,118
CCTV - Head End	72,680	GSF	0.60	43,608
Closed Circuit Camera	25	EA	2,700.00	67,500
Intrusion Detection System	72,680	GSF	1.50	109,020
Card Access	1	LS	40,000.00	40,000
Tele/ data Infrastructure	72,680	GSF	3.15	228,942
PA and Master Clock	72,680	GSF	1.65	119,922
VoIP System	72,680	GSF	0.90	65,412
IPTV Video on Demand	1	LS	125,000.00	125,000
Gymnasium Sound System	1	EA	25,000.00	25,000
Cafeteria Sound System	1	EA	15,000.00	15,000
Lightning Protection	1	LS	35,000.00	35,000
OH&P8%	1	LS	173,190.94	173,191
DJE	1	LS	65,000.00	65,000
				----- 2,403,078
TOTAL D50 - ELECTRICAL	\$33.06 /SF			2,403,078

E. EQUIPMENT & FURNISHINGS

E10 - EQUIPMENT

E1010 COMMERCIAL EQUIPMENT

115210 PROJECTION SCREENS

Projection Screen - Elec. Op. -Allow:

Café platform -24'	1	EA	12,000.00	12,000
Gym -24'	1	EA	12,000.00	12,000
Gathering area	1	EA	5,500.00	5,500

113100 APPLIANCES (NO SPEC)

Health Suite:

Refrigerator	1	EA	900.00	900
Icemaker	1	EA	600.00	600

Staff Lunch Room (1 EA):

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Refrigerator full size - allow	1	EA	1,500.00	1,500
Kitchen:				
Washer		NIC		
Dryer		NIC		
*Excludes SPED classroom appliances				
110630 PLATFORM CURTAINS				
Platform curtains	1	LS	25,000.00	25,000
Dimming, stage, rigging		NIC		
114000 FOOD SERVICE EQUIPMENT				
Food service equipment - allow	1	LS	200,000.00	200,000
116600 ATHLETIC EQUIPMENT				
Wall padding	500	SF	12.00	6,000
Volleyball sleeves & equip.	1	LS	1,500.00	1,500
Scoreboard w/shot clock		w/ ff&e		
Basketball backstop -	2	EA	4,500.00	9,000
Gym divider roll-up (23' H)	1,500	SF	24.00	36,000
Bleachers	1	LS	60,000.00	60,000
119000 MISC EQUIPMENT				
		NIC		
Kiln				

				370,000

TOTAL E10 - EQUIPMENT	370,000
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E20 - FURNISHINGS

E 2010 FIXED FURNISHINGS

064020 ARCHITECTURAL WOODWORK

Café Solid Surface Counter	33	LF	245.00	8,085
Nurse Base and Wall Cabinet	13	LF	450.00	5,850
Team Area Casework	46	LF	300.00	13,800

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Classroom Base and Wall Cabinet	197	LF	325.00	64,025
General and Tall Storage Unit	50	EA	1,300.00	65,000
Teacher Planning	22	LF	125.00	2,750
General and Tall Storage Unit	2	EA	1,300.00	2,600
Open Storage	4	EA	1,150.00	4,600
General Storage	6	EA	1,300.00	7,800
Art Room				
Base and Wall Cabinet	16	LF	35.00	560
General and Tall Storage Unit	2	EA	1,300.00	2,600
Student Tables		w/ ff&e		
124813 ENTRANCE MATS & FRAMES				
Exterior mat (2 EA)	305	SF	45.00	13,725
122400 WINDOW SHADES				
Typ Window shade	8,400	SF	6.50	54,600
Add for Electric Shade	1	LS	20,000.00	20,000
Int. office blinds	1	LS	5,000.00	5,000

				270,995
E2020 MOVABLE FURNISHINGS				
		NIC		

				0
TOTAL E20 - FURNISHINGS				270,995

G. BUILDING SITEWORK**G10 - SITE PREPARATION**

G1010 SITE CLEARING

310000 EARTHWORK

Sawcut pavement @ new entries street	125	LF	4.25	531
Clear and grub	1	LS	10,000.00	10,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Erosion control	2,202	LF	4.80	10,570
Construction fence	2,613	LF	11.00	28,743
Construction entrance pad	1,800	SF	7.50	13,500
Construction Gate	2	EA	350.00	700
CB protection	45	EA	50.00	2,250
Tree and Structure protection	1	LS	7,500.00	7,500
Strip and stack top soil - 6" (230,484 sf)	7,080	CY	8.00	56,640
Remove Utilities	1,276	LF	28.00	35,728
Remove Utility structure	9	EA	425.00	3,825
Remove Fire Hydrant and Cap	2	EA	1,800.00	3,600

				173,587

G1020 SITE DEMOLITION & RELOCATIONS

024100 SITE DEMOLITION

Site Demolition - Remove:

Bituminous pavement	125,533	SF	0.95	119,256
Concrete retaining wall	170	LF	40.00	6,800
Remove Tennis Court	25,523	SF	1.20	30,628
Remove Volleyball Court	4,010	SF	1.20	4,812
Chain link fence	660	LF	4.00	2,640
Parking lot light pole	1	LS	5,000.00	5,000
Remove playground equipment	1	LS	7,500.00	7,500
Misc. site amenities -allow	1	LS	10,000.00	10,000

				186,636

G1030 SITE EARTHWORK

310000 EARTHWORK

Site Cut and Fill	20,000	CY	14.00	280,000
Fill at Basement Demolition	2,200	CY	22.00	48,400
Site grading	42,600	SY	1.65	70,290
Allowances:				
Ledge/Boulder Removal	1	LS	25,000.00	25,000
Oil Tank Removal	1	LS	50,000.00	50,000
Propane Tank Removal	1	LS	5,000.00	5,000

				478,690

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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G1040 HAZARDOUS WASTE REMEDIATION

Soil classifications		NIC		
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0

TOTAL G10 - SITE PREPARATION				838,913
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G20 - SITE IMPROVEMENTS

G2010 ROADWAYS

320000 PAVEMENT, CURBING & EDGING

Roads and Parking - Site:

4" Bituminous drive/parking	12,268	SY	25.50	312,834
Service conc. vehicular pavement	1,122	SF	9.50	10,659
Granite curb straight	4,800	LF	39.00	187,200
Granite curb radial	1,500	LF	43.00	64,500
Line painting	1	LS	7,500.00	7,500
Street patch at utility	1	LOC	5,000.00	5,000
12" Gravel @ drive	4,089	CY	23.25	95,069

323100 SITE IMPROVEMENTS

Parking/Traffic signage	1	LS	5,000.00	5,000
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687,762

G2020 PARKING LOTS inc. w/ G2010

0

G2030 PEDESTRIAN PAVING

320000 PAVEMENT, CURBING & EDGING

4" Concrete walkway	13,334	SF	6.50	86,671
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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Bit Pavement	13,334	SF	2.85	38,002
ADA detectable paver	12	EA	350.00	4,200
310000 EARTHWORK				
8" Gravel @ walks	660	CY	24.50	16,170

				145,043
G2040 SITE DEVELOPMENT				
323100 SITE IMPROVEMENTS				
Play Area:				
Resilient safety play surface	7,953	SF	16.50	131,225
12" Gravel base	294	CY	36.00	10,584
Playground Equipment	1	LS	140,000.00	140,000
Ornamental Fence	275	LF	80.00	22,000
Metal Gate	1	EA	2,200.00	2,200
Tennis Court:				
Bit Pavement and Synthetic Surfacing	24,672	SF	4.50	111,024
4" Gravel base	610	CY	24.00	14,640
10' CL Fence	653	LF	52.00	33,956
Tennis court gate - sgl	6	EA	900.00	5,400
Tennis court net and post	4	EA	2,900.00	11,600
BB and Tennis court benches	8	EA	1,300.00	10,400
Versa lok Block Wall:				
Roadway - avg 5'	1,805	SF	48.00	86,640
Wall Cap	361	LF	36.00	12,996
Drainage layer and fabric	361	LF	50.00	18,050
Wood Road Guard Rail	353	LF	45.00	15,885
Entry Site Sign	1	EA	25,000.00	25,000
40' Flag Pole	1	EA	6,500.00	6,500
Metal bollards @ service entry	10	EA	750.00	7,500
Bollard @ main entry	10	EA	1,500.00	15,000
Trash receptacle-allow	2	EA	1,500.00	3,000
Bike loop/post-allow	6	EA	850.00	5,100
Garden Area	5,365	SF	5.00	26,825
Innovation Courtyard - allow	1,944	SF	15.00	29,160

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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744,685

G2050 LANDSCAPING

329000 LANDSCAPING

Planting Allowance	1	LS	150,000.00	150,000
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Lawn:

6" Loam - amend/supplement	2,685	CY	30.00	80,550
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12" New Planting Soil	500	CY	48.00	24,000
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Rake seed, find grade, fert.	16,146	SY	2.40	38,750
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4" Mulch @ planting bed	1	LS	2,500.00	2,500
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Irrigation system		Alternate		
				----- 295,800

TOTAL G20 - SITE IMPROVEMENTS				1,873,290
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G30 - SITE MECHANICAL UTILITIES

G3010 WATER SUPPLY

330000 UTILITIES

Piping (inc. trench):

Tap 6" Site Main	2	LOC	4,200.00	8,400
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8" Main Bldg Loop	1,228	LF	83.00	101,924
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6" Fire Service	14	LF	55.00	770
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4" Domestic Service	14	LF	55.00	770
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6" Fire lateral	64	LF	72.00	4,608
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8" Gate valve	2	EA	1,375.00	2,750
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6" Gate valve	9	EA	1,200.00	10,800
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4" Gate valve	1	EA	1,050.00	1,050
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Hydrant	4	EA	2,300.00	9,200
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140,272

G3020 SANITARY SEWER

330000 UTILITIES

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Connect to existing SMH	1	LS	2,000.00	2,000
Site manhole	4	EA	3,200.00	12,800
8" PVC	618	LF	68.00	42,024
Grease trap (5000 gal)	1	EA	12,500.00	12,500
4" Kit vent	15	LF	52.00	780
6" Kit waste	15	LF	75.00	1,125

				71,229

G3030 STORM SEWER

330000 UTILITIES

Site Drainage :

Connect to 12" Site rcp	1	LS	2,000.00	2,000
Connect to existing outfall	1	LS	4,000.00	4,000
Drainage manhole	25	EA	3,200.00	80,000
Dbl catch basin	1	EA	4,200.00	4,200
Catch basin	44	EA	3,200.00	140,800
Outlet control structure	2	EA	4,500.00	9,000
Water Quality Structure	6	EA	12,000.00	72,000
Roof drain clean out	5	EA	1,200.00	6,000

Infiltration field #1- #2 (6,330 sf)	1	LS	200,000.00	200,000
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Piping and Trenching:

12" RCP	1,803	LF	57.00	102,771
15" CPP	920	LF	64.00	58,880
18" CPP	327	LF	69.00	22,563
24" CPP	658	LF	78.00	51,324

				753,538

G3060 FUEL DISTRIBUTION

330000 UTILITIES

Excavate and backfill gas line	310	LF	45.00	13,950
Gas mtr pad	1	EA	1,500.00	1,500
Patch at Street cut	1	LS	3,000.00	3,000

*gas piping by utility

18,450

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
G3090 OTHER SITE MECHANICAL UTILITIES		N/A		----- 0
TOTAL G30 - SITE MECHANICAL UTILITIES				983,489

G40 - SITE ELECTRICAL UTILITIES

G4010 ELECTRICAL DISTRIBUTION

Duct Bank - Excavation and Concrete:

Primary Duct bank A - F	780	LF	72.00	56,160
Transformer pad	1	EA	3,500.00	3,500
Generator pad	1	EA	3,000.00	3,000

260000 ELECTRICAL*

Site:

T xfmr pads grd	1	EA	899.00	899
T xfmr pad sleever & 90 deg	1	EA	574.00	574

AA:

PVC-5"C-w/PS	1,320	LF	5.80	7,656
PVC-5"C- spacers	132	EA	9.20	1,214

BB:

PVC-4"C-w/PS	200	LF	4.52	905
PVC-4"C- spacers	40	EA	8.40	336

DD:

PVC-4"C-w/PS	1,680	LF	4.52	7,600
PVC-4"C- spacers	336	EA	8.40	2,822
PVC-1 1/4"C- inner duct	1,260	EA	1.83	2,306

EE:

PVC-4"C-w/PS	250	LF	4.52	1,131
PVC-4"C- spacers	50	EA	8.40	420
PVC-1"C w/PS	200	EA	2.44	488

OH&P 12%	1	LS	3,162.21	3,162
DJE	1	LS	5,000.00	5,000

97,174

G4020 SITE LIGHTING

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
330000 UTILITIES				
Light Pole Base	28	EA	675.00	18,900
Excavate site light	3,416	LF	14.00	47,824
260000 ELECTRICAL*				
LIGHTING FIXTURES				
SL1/2H - single 18'	10	EA	2,232.00	22,320
SL1/3H - single 18'	6	EA	2,282.00	13,692
SL1/4H - single 18'	2	EA	2,282.00	4,564
SL1/5H - single 12'	7	EA	1,910.00	13,370
SL2/3H - twin 18'	2	EA	2,926.00	5,852
SL2/4H - twin 18'	1	EA	2,976.00	2,976
SL3 - 6" DL	10	EA	347.00	3,470
SL4 - wall pack	15	EA	666.00	9,990
SL5 - bollard	4	EA	1,260.00	5,040
SL6 - in ground uplight	2	EA	539.00	1,078
PB-12"x12"x12"D quazite	39	EA	441.00	17,199
PB-17"x30"x12"D quazite	3	EA	683.00	2,049
Pole base anchor bot setups	39	EA	54.00	2,106
Pole base grounding	39	EA	147.00	5,733
Pole base sleeves & 90 deg	39	EA	137.00	5,343
Bollard base setups	4	EA	89.00	356
Flagpole light b.box	2	EA	72.00	144
Lighting Reduction Wire from above	1	LS	5,000.00	5,000
PVC-1/4"C-2#8 & 1#10	5,670	LF	3.86	21,886
Gen/set relay panel	1	EA	3,152.00	3,152
OH&P 10%	1	LS	14,532.02	14,532

				226,576
G4030 SITE COMMUNICATIONS & SECURITY				

				0
TOTAL G40 - SITE ELECTRICAL UTILITIES				323,750

PROJECT: James F. Peebles Elementary School
LOCATION: Bourne, MA
CLIENT: Symmes Maini & Mckee Associates, Inc.
DATE: 06-Sep-16

No.: 15081

ALTERNATES

ALTERNATE NO. 1 - CHANGE STRAIGHT GRANITE CURB TO PRECA	(\$119,829)
ALTERNATE NO. 2 - ADD INTERCONNECTING DOORS	\$20,020
ALTERNATE NO. 3- ADD CLASSROOM SINKS	\$112,522
ALTERNATE NO. 4 - ADD CLASSROOM UPPER CABINETS	\$38,969
ALTERNATE NO. 5 - INCREASE GENERATOR FROM 150 KW TO 250	\$26,791
ALTERNATE NO. 6 - DELETE SITE SIGN	(\$30,444)
ALTERNATE NO. 7 - DEDUCT DECORATIVE METAL SCREEN	(\$87,679)
ALTERNATE NO. 8 - DELETE ACADEMIC WING SLOPED ROOF	(\$93,900)

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
ALTERNATE NO. 1 - CHANGE STRAIGHT GRANITE CURB TO PRECAST				
Delete:				
Granite curb straight	-4,800	LF	39.00	-187,200
Add:				
PC curb straight	4,800	LF	18.50	88,800

SUBTOTAL				-98,400
GENERAL REQUIREMENTS		3 %		-2,952

SUBTOTAL				-101,352
INSURANCE		0.8 %		-811

SUBTOTAL				-102,163
P&P BOND (all trades)		1 %		-1,022

SUBTOTAL				-103,184
PERMIT		0 %		0

SUBTOTAL				-103,184
DESIGN CONTINGENCY		10 %		-10,318

SUBTOTAL				-113,503
ESCALATION		3.25 %		-3,689

SUBTOTAL				-117,192
FEE		2.25 %		-2,637

TOTAL ALTERNATE NO. 1				-119,829

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
ALTERNATE NO. 2 - ADD INTERCONNECTING DOORS				
Add:				
Single Door	12	EA	320.00	3,840
Classroom Interconnecting - sgl	12	EA	500.00	6,000
Hardware - sgl	12	EA	475.00	5,700
Paint HM door frame - sgl	12	EA	75.00	900
SUBTOTAL				16,440
GENERAL REQUIREMENTS		3 %		493
SUBTOTAL				16,933
INSURANCE		0.8 %		135
SUBTOTAL				17,069
P&P BOND (all trades)		1 %		171
SUBTOTAL				17,239
PERMIT		0 %		0
SUBTOTAL				17,239
DESIGN CONTINGENCY		10 %		1,724
SUBTOTAL				18,963
ESCALATION		3.25 %		616
SUBTOTAL				19,580
FEE		2.25 %		441
TOTAL ALTERNATE NO.2				20,020

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
ALTERNATE NO. 3- ADD CLASSROOM SINKS				
Delete:				
P-10 Classroom Sink	21	EA	1,400.00	29,400
Fixture Rough in	21	EA	3,000.00	63,000
SUBTOTAL				92,400
GENERAL REQUIREMENTS		3 %		2,772
SUBTOTAL				95,172
INSURANCE		0.8 %		761
SUBTOTAL				95,933
P&P BOND (all trades)		1 %		959
SUBTOTAL				96,893
PERMIT		0 %		0
SUBTOTAL				96,893
DESIGN CONTINGENCY		10 %		9,689
SUBTOTAL				106,582
ESCALATION		3.25 %		3,464
SUBTOTAL				110,046
FEE		2.25 %		2,476
TOTAL ALTERNATE NO. 3				112,522

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
ALTERNATE NO. 4 - ADD CLASSROOM UPPER CABINETS				
Wall Cabinet	160	LF	200.00	32,000
SUBTOTAL				32,000
GENERAL REQUIREMENTS			3 %	960
SUBTOTAL				32,960
INSURANCE			0.8 %	264
SUBTOTAL				33,224
P&P BOND (all trades)			1 %	332
SUBTOTAL				33,556
PERMIT			0 %	0
SUBTOTAL				33,556
DESIGN CONTINGENCY			10 %	3,356
SUBTOTAL				36,912
ESCALATION			3.25 %	1,200
SUBTOTAL				38,111
FEE			2.25 %	858
TOTAL ALTERNATE NO. 4				38,969

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
ALTERNATE NO. 5 - INCREASE GENERATOR FROM 150 KW TO 250				
ADD	1	LS	22,000.00	22,000
SUBTOTAL				22,000
GENERAL REQUIREMENTS			3 %	660
SUBTOTAL				22,660
INSURANCE			0.8 %	181
SUBTOTAL				22,841
P&P BOND (all trades)			1 %	228
SUBTOTAL				23,070
PERMIT			0 %	0
SUBTOTAL				23,070
DESIGN CONTINGENCY			10 %	2,307
SUBTOTAL				25,377
ESCALATION			3.25 %	825
SUBTOTAL				26,201
FEE			2.25 %	590
TOTAL ALTERNATE NO. 5				26,791

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
ALTERNATE NO. 6 - DELETE SITE SIGN				
Entry Site Sign	-1	EA	25,000.00	-25,000
SUBTOTAL				-25,000
GENERAL REQUIREMENTS		3 %		-750
SUBTOTAL				-25,750
INSURANCE		0.8 %		-206
SUBTOTAL				-25,956
P&P BOND (all trades)		1 %		-260
SUBTOTAL				-26,216
PERMIT		0 %		0
SUBTOTAL				-26,216
DESIGN CONTINGENCY		10 %		-2,622
SUBTOTAL				-28,837
ESCALATION		3.25 %		-937
SUBTOTAL				-29,774
FEE		2.25 %		-670
TOTAL ALTERNATE NO. 6				-30,444

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
ALTERNATE NO. 7 - DEDUCT DECORATIVE METAL SCREEN				
Galv steel w/ Perf screen	-720	SF	100.00	-72,000
SUBTOTAL				-72,000
GENERAL REQUIREMENTS		3 %		-2,160
SUBTOTAL				-74,160
INSURANCE		0.8 %		-593
SUBTOTAL				-74,753
P&P BOND (all trades)		1 %		-748
SUBTOTAL				-75,501
PERMIT		0 %		0
SUBTOTAL				-75,501
DESIGN CONTINGENCY		10 %		-7,550
SUBTOTAL				-83,051
ESCALATION		3.25 %		-2,699
SUBTOTAL				-85,750
FEE		2.25 %		-1,929
TOTAL ALTERNATE NO. 7				-87,679

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
ALTERNATE NO. 8 - DELETE ACADEMIC WING SLOPED ROOF				
Deduct:				
6" x 18 ga Stud - typical	-243	SF	7.75	-1,883
1/2" Dens glass sheathing	-243	SF	2.85	-693
Air and Vapor barrier	-243	SF	5.75	-1,397
Zinc Panel	-243	SF	70.00	-17,010
Polycarbonate trim	-354	SF	40.00	-14,160
1 Lyr gyp @ ext. wall	-450	SF	2.20	-990
Kalwall Sandwich panel	-727	SF	60.00	-43,620
PVC Roof w/ Adhered Ribs - classroom	-7,884	SF	16.50	-130,086
Add:				
PVC Roof System - Complete	7,884	SF	15.25	120,231
Roof Drain	5	EA	2,500.00	12,500
SUBTOTAL				-77,108
GENERAL REQUIREMENTS		3 %		-2,313
SUBTOTAL				-79,421
INSURANCE		0.8 %		-635
SUBTOTAL				-80,057
P&P BOND (all trades)		1 %		-801
SUBTOTAL				-80,857
PERMIT		0 %		0
SUBTOTAL				-80,857
DESIGN CONTINGENCY		10 %		-8,086
SUBTOTAL				-88,943
ESCALATION		3.25 %		-2,891
SUBTOTAL				-91,834
FEE		2.25 %		-2,066
TOTAL ALTERNATE NO. 8				-93,900

School Building Committee
September 08, 2016

Peebles Elementary School Schematic Design



PROJECT MANAGEMENT **SMMA**
Massachusetts School Building Authority

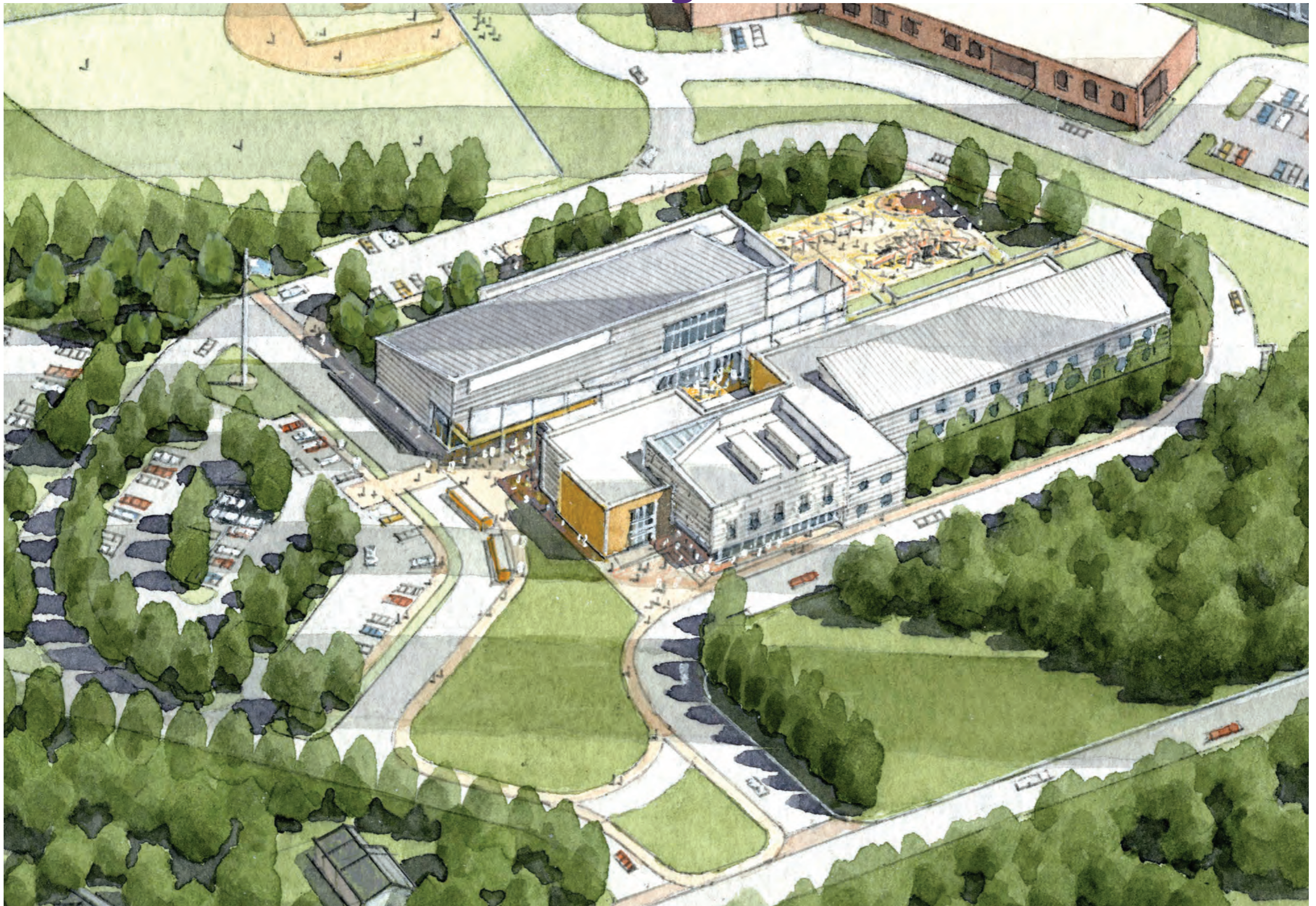
Flansburgh Architects

Design Update

New Peebles (Grades 3 through 5)



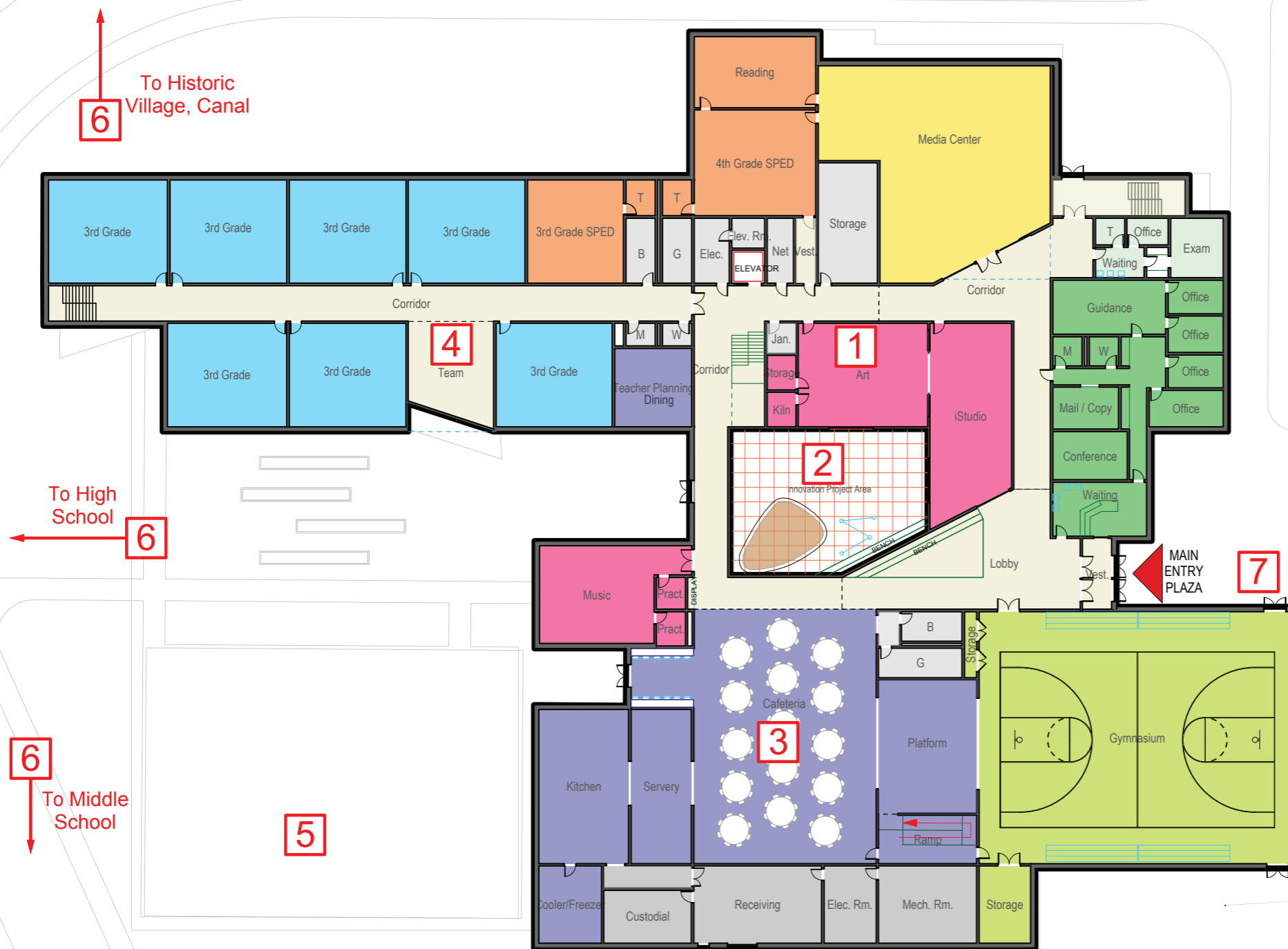
New Peebles (Grades 3 through 5)



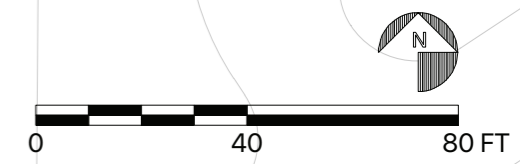
New Peebles (Grades 3 through 5)

Schematic Design

FIRST LEVEL PLAN



- KEY**
- 1. Arts & Innovation Studio:**
 - Grouped with Arts, Music, Makers Space & Learning Commons to promote collaboration, shared resources
 - 2. Outdoor Classroom:**
 - Limits distraction to academic classrooms
 - Project area with water and power
 - 3. Community:**
 - Stage open to gym & cafe to support larger venue to support greater community events on south side of the canal
 - 4. Academic:**
 - Neighborhood collab/display
 - 5. Play Area:**
 - Adjacent to Gymnasium to limit distraction to academic classrooms
 - 6. Campus Resource:**
 - Adjacent to Middle School and High School, Historic Village, Canal
 - 7. Entry Plaza connects separate car and bus zones**



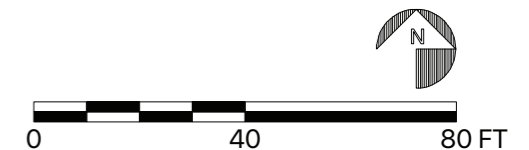
New Peebles (Grades 3 through 5)

Schematic Design

SECOND LEVEL PLAN

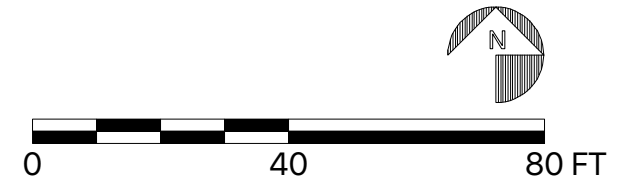
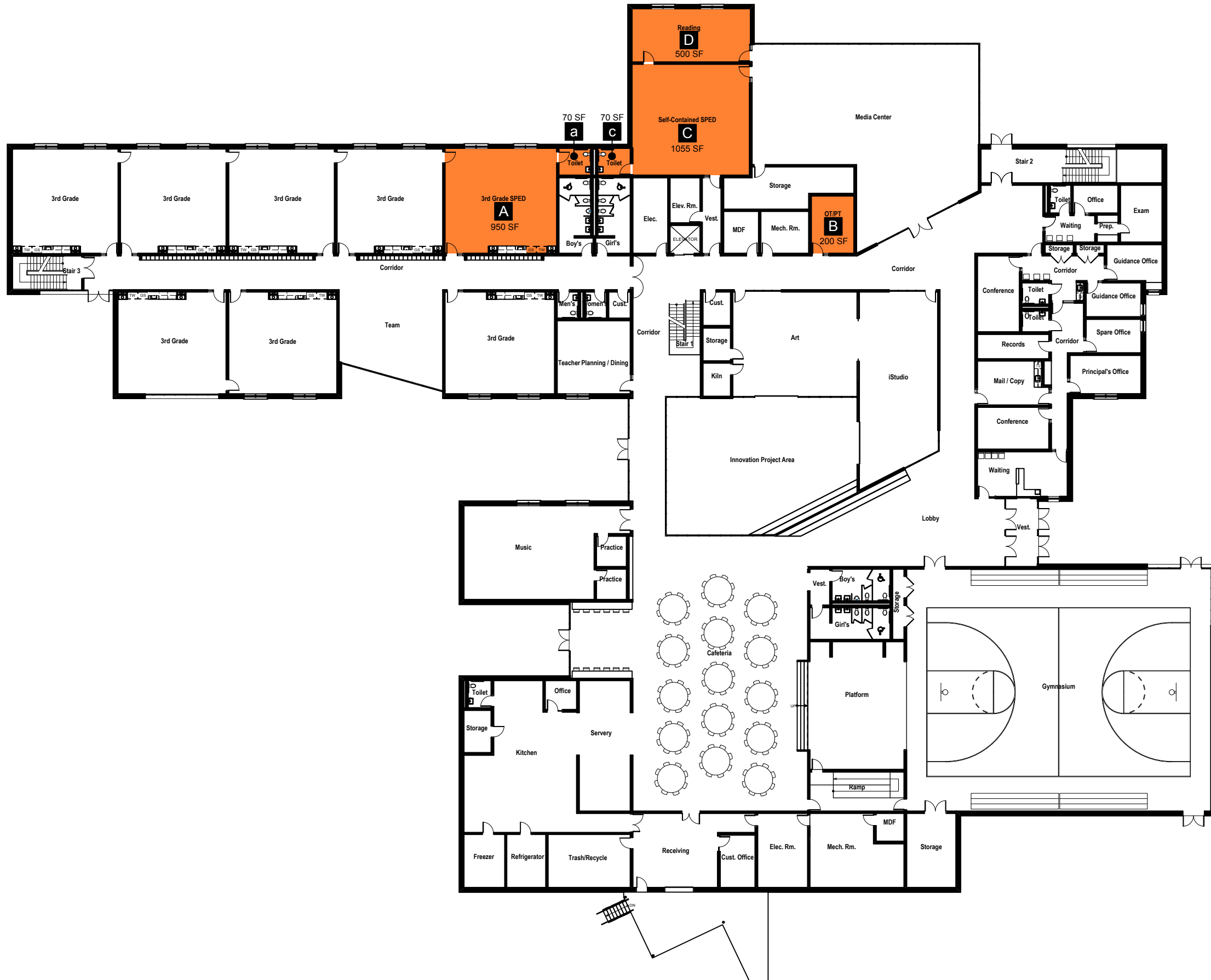


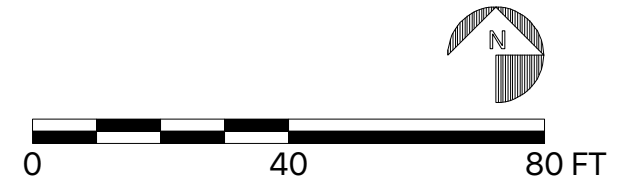
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DESE

FIRST FLOOR PLAN





PROJECT COSTS & REIMBURSEMENT UPDATE

Preliminary Schematic Design Project Costs

PSR Update (6/22/16) Prelim. SD Cost (9/06/16)

		Peebles (3-5) Peebles Elementary 460 students	Peebles (3-5) Peebles Elementary 460 students
		New Construction	New Construction
Gross SF		72,680 SF	72,680 SF
Construction Cost \$ (Hard Cost)	Building	\$25.24M	24.7M
	Hazmat/Demo	\$1.62M	1.46 M
	Sitework	\$4.1M	5.02 M
	Total	\$30.96M	\$31.16M
Soft Cost \$	Fees & Expenses	\$5.49M	\$5.52M
	FF&E	\$1.38M	\$1.38M
	Contingencies	\$2.17M	\$2.18M
TOTAL		\$39.99M	\$40.25M
Cost per SF		\$550	\$554

* Estimated Cost subject to change as project is refined

Potential Additions & Deductions

Additions

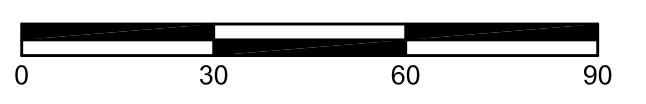
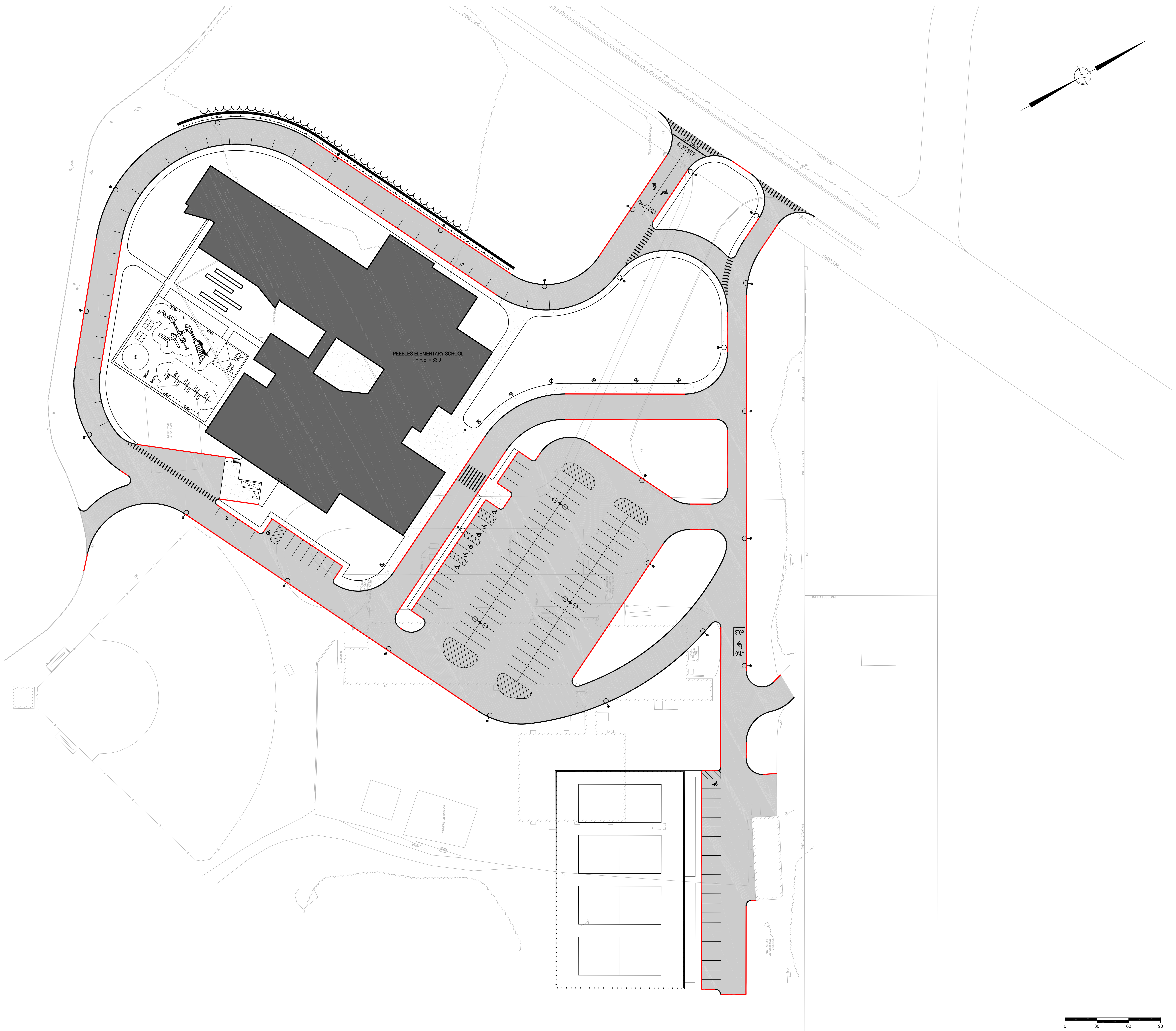
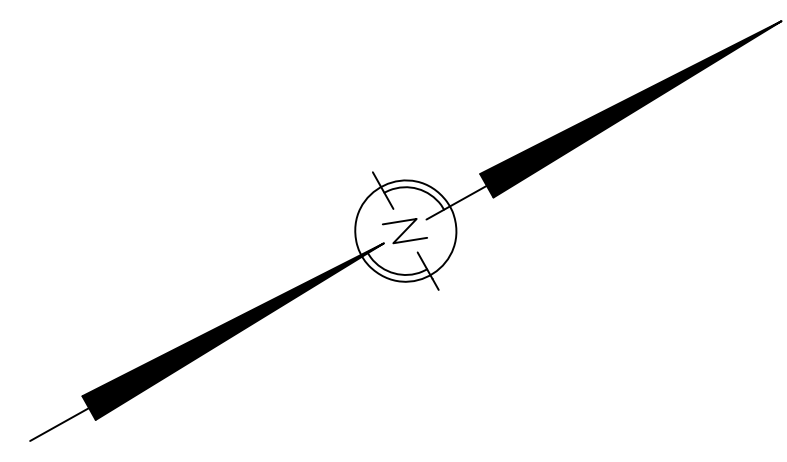
1. Add classroom sinks	\$134,400
2. Add classroom upper cabinets	\$57,165
3. Increase Emg. Generator from 150 KW to 250 Kw	\$25,600
4. Add interconnection doors in classrooms	\$24,576
	<hr/>
Total Add:	\$241,741

Deductions

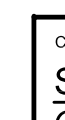
1. Change straight granite curb to precast concrete	(\$86,016)
2. Remove site sign at Trowbridge Road	(\$32,000)
3. Remove decorative metal screen at main entry	(\$79,488)
4. Remove academic wing sloped roof	(\$102,400)
	<hr/>
Total Deduct:	(\$299,904)

LEGEND

- VERTICAL GRANITE CURB (CURVED SECTIONS ONLY)
- PRECAST CONCRETE CURB (STRAIGHT SECTIONS ONLY)
- BITUMINOUS CONCRETE PAVEMENT



NO.	REVISIONS	ISSUE



Symmes Maini McKee
 Owner's Project Manager
 1000 Massachusetts Avenue
 Cambridge, MA 02138

Waterman Associates, Inc.
 Landscape
 31 East Main Street
 Westborough, MA 01581

Boston Building Consultants
 Structural Engineer
 241 A Street, Suite 220
 Boston, MA 02210

Nitsch Engineering, Inc.
 Civil/Traffic/Survey Engineers
 2 Center Plaza, Suite 430
 Boston, MA 02108

PMC-MA
 Cost Estimators
 59 South Street
 Hingham, MA 02043

Garcia, Galuska and DeSousa
 MEP & Fire Protection Engineers
 370 Faunce Corner Road
 Dartmouth, MA 02747

Edvance Technology Design, Inc.
 Technology & Data/Communication
 3 Summer Street
 Chelmsford, MA 01824

Tavarés Design Associates
 Food Service, Furniture, Equipment & Casework
 8 Winchester Place, Suite 301
 Winchester, MA 01890

Flansburgh Architects
 77 North Washington Street
 Boston, Massachusetts 02114
 617.267.3973 tel
 www.flansburgh.com

Architecture
 Master Planning
 Space Planning
 Interior Design

James F. Peebles Elementary School
 70 Trowbridge Rd. Bourne, MA 02532

Sheet Title
VE Exhibit CURBING
 Pricing Set
 Schematic Design

Drawn By ECV	Project # 1514
Checked By MJD	Scale 1"=30'
Plot Date 09/08/16	Issue Date 09/08/16
Issue No.	L-01A

MSBA Reimbursement

	PSR Update 6/22/16	Preliminary SD Base 9/06/16	Preliminary SD w/ 4 Adds 9/06/16
Project Cost	\$39.99M	\$40.25M	\$40.54M
Approximate MSBA Grant	\$15.23M	\$15.17M	\$15.19M
Approximate Cost to Bourne	\$24.76M	\$25.08M	\$25.35M

* Costs subject to change as project is refined

Tax Impact

PSR Update (6/22/16)

Cost to Bourne **\$24.76 million**

Annual Residential Tax **\$178.51**

(Increase per Average Home Value)

Preliminary SD Base (9/06/16)

Cost to Bourne **\$25.08 million**

Annual Residential Tax **\$180.77 ***

(Increase per Average Home Value)

Preliminary SD w/ 4 Adds (9/06/16)

Cost to Bourne **\$25.35 million**

Annual Residential Tax **\$182.68 ***

(Based on 20 year term at 5.00% Interest Rate)

* To be confirmed with Town Finance Director

Average Home Value is \$398,944