

East Bridgewater School Committee: Comprehensive School District Feasibility Study

5 Cost Analysis & Phasing



5/21/2007

Cost and Program Analysis

EAST BRIDGEWATER HIGH SCHOOL

A program analysis of the existing East Bridgewater High School reveals that it is sufficiently sized to accommodate the projected High School enrollment. However, its poor organization and lack of appropriately sized/located specialized instructional and support spaces make it a very difficult building to convert into a modern High School educational environment.

Although the renovation of the existing building might not allow for an "ideal" educational environment, if the building was in good condition and could be converted to an "appropriate" educational facility at a reasonable cost, certainly some argument could be made for renovating the existing building in lieu of replacing it. For this reason, a cost analysis was completed to determine the cost of renovating the existing High School building versus the cost of constructing an "all new" facility.

The cost of renovating the existing High School facility is estimated herein at approximately \$46.6 million. This is a very expensive renovation, with the high cost mostly attributable to the age of the facility and the additional costs associated with a lengthy and labor-intensive renovation. The cost of an "all new" East Bridgewater High School is estimated herein at \$46.3 million. Although this is also a significant price tag, it represents a modern 21st Century high school with many advantages:

- 1. More energy efficiency
- 2. Better organization
- 3. Educational superiority
- 4. Less expensive to maintain
- 5. Could provide 50 years of future service

It is important to note that the replacement and/or renovation of the East Bridgewater High School has been identified as a high priority by the new Massachusetts School Building Authority. This could result in the MSBA providing approximately 60% in reimbursement funding, meaning that the Town of East Bridgewater would incur only \$18.4 million (40%) of the cost for a new High School.

CENTRAL ELEMENTARY SCHOOL

The program analysis for the existing Central Elementary School reveals that the 1965 addition impedes a functional expansion. Additionally, the lower quality and worse condition of the 1965 addition would make it a poor candidate for renovation. However, a proposed project that eliminates the 1965 addition and expands the original 1949 building could provide a very functional and educationally advantageous

layout. The original construction of the 1949 building is of a very high quality, and a renovation and expansion of this building would result in a facility with all of the qualities of an "all new" building. Such a project could serve the Town for 50 years.

For purposes of comparison, a cost analysis was completed to determine the cost of an "all new" facility versus the cost of renovating and expanding the 1949 building. The analysis indicates that the renovation and expansion is approximately \$2.5 million less than an "all new" facility. Additionally, the renovation and expansion project is equal to the "all new" project in every aspect and also affords the Town the opportunity to maintain and restore the architecturally significant 1949 building, we believe that the renovation and expansion of the 1949 building is the appropriate solution. It offers the following advantages:

- 1. Maintains the architecturally significant 1949 building as a key piece of the Town Center.
- 2. Provides a building that is equal to an "all new" facility in every aspect.
- 3. Is less expensive than an "all new" facility.

Cost Analysis		900 Students	Renovate/Expand Central Elementary
CENTRAL ELEMENTARY		Renovation sq.ft.:	58,869
11-May-07		Addition sq.ft.:	78,793
	Cost/SF	Cost	Comments
Sitework	\$11.21		Earthwork, parking, paving, lawn, fields, planting
Phasing General Conditions	\$6.75 \$10.20		Extended construction period for occupied building Contractor's overhead, profit, and mobilization
Demolition	\$1.84		select demo. at exist. / interior demolition
_ead Removal	\$0.36	\$49,558.32	contained selective abatement at exterior windows
Concrete & Rebar	\$3.84		foundations, footings, slab for new addition
Masonry	\$14.34		masonry at new addition, repointing at existing
Structural Steel	\$9.57		Seismic mod. at exstg. bldg./new steel @ addition Exterior cold formed metal framing @ new addition
Exterior Metal Studs & Sheathing Misc. Metals	\$6.11 \$4.10		lintels at existing/new buildings, roof edge angles at new and existing
Stair	\$0.00		Not applicable
Expansion Joints	\$0.15		Wall, Ceiling, Floor Interior and Exterior Retro fit existing building
Rough Carpentry	\$1.12		rough blocking, sills, lockers, casework, shelving, etc.
Millwork and Woodwork	\$6.37	\$876,906.94	Display cases, paneling, wainscotting, cafeteria, library, etc.
Glass Fiber Reinforced Plastic	\$0.81 \$9.11	\$111,506.22	Main Entry, Cafetorium, and Public Spaces Membrane Roofing, partial asphalt shingles
Roofing and Flashing Damproofing and Caulking	\$1.24		damproofing, vapor barrier, sealants @ new / sealants only @ existing
Building Insulation and Vapor Barrier	\$2.04		New exterior wall insulation at exterior walls only
Spray Fireproofing	\$0.45	\$62,140.63	Spray Fireproofing
Exterior Insulation Finish System	\$1.12		Exterior Insulation Finish System
Skylights	\$1.11		Cafeteria, Library Media Center
Firestopping Steel Door Frames	\$0.17 \$0.63		Wall Terminations, Pipe Penetrations, Conduits, etc Interior and Exterior Steel Door Frames to be painted
Steel Doors	\$0.26		Fire rated doors required / replace existing doors
Wood Doors	\$0.71		Interior Wood Doors
Hardware	\$1.34		Door hardware including latches, hinges, panic hardware, locksets, sweeps, etc
Access Doors	\$0.04		Access panels located in walls and ceilings for access to mechanical, plumbing
Overhead Coiling Doors	\$0.18		Roll up Doors for loading dock and interior coiling grilles for foodservice
Num. Windows, Storefront, Curtainwall Glass & Glazing	\$6.91 \$1.22		replace exist'g windows / provide new at addition replace existing broken or non-compliant glass/add new
nterior Metal Framing	\$5.17		Interior walls and half height partitions
Sypsum Drywall / Veneer plaster	\$5.92		new drywall/veneer plaster and soffit board at exist / new addition
Ceramic, Quarry, and Porcelain Tile	\$1.52		replace all existing /new at addition
Acoustical Ceilings	\$1.72		Full Replacement of ceiling system and new @ addition
Nood Flooring- Gym and Stage	\$0.00		Not applicable
Resilient Flooring	\$2.31 \$0.72		renovation and addition areas renovation and addition areas
Carpet Acoustical Panels	\$0.72		Acoustical treatment at cafetorium, music room
Painting	\$1.63		Patch/paint at exist'g bldg. /paint @ new
Markerboards and Tackboards	\$0.58		Replace all Markerboards and tackboards
Foilet Partitions and Screens	\$0.24		Replace toilet partitions and urinal screens
Architectural Louvers	\$0.24		Replace all exterior louvers and screens
Signage and Graphics Metal Lockers	\$0.02 \$0.89		Replace all exterior and interior building signage Replace all metal lockers
Fire Extinguisher Cabinets	\$0.06		Replace all fire extinguisher cabinets
Foilet Accessories	\$0.16		Replace Paper towel, soap, toilet paper dispensers, mirrors, coat hooks, etc.
Stage Curtains and Rigging	\$0.00	\$0.00	Not applicable
Projection Screens	\$0.12		Replace all projection screens
Vastewater System Replacement	\$5.75		Reuse and Renovate septic system
Food Service Equip. Appliances	\$3.78 \$0.00		Replacement required Not applicable
Gym Backstop	\$0.38		Replace all backstops and provide motorized main court backstop
Cafetorium Divider Curtain	\$0.34		Replace existing with motorized dividing curtain with mesh top
Vall Pads	\$0.18	\$24,779.16	Replace existing wall pads at perimeter of gym
Misc. Cafetorium PE equipment	\$0.09		Install new single set of volleyball sleeves
Casework / Fixed Entrance Mats	\$4.35		Replace existing / provide at new addition
intrance mats Exed Auditorium Seating	\$0.14 \$0.00		Replace existing, add at new addition No auditorium
Felescoping Bleachers	\$0.00		Not applicable
Asbestos Removal	\$3.85		Remove existing asbestos containing materials
ire Protection	\$3.78		retofit into existing building / new at addition
Elevator	\$0.00		Not applicable
Plumbing	\$8.38		replace much of existing / provide @ new addition
IVAC	\$22.87 \$16.25		replace existing / provide @ new addition renovate existing / provide @ new addition
Modular Classrooms	\$2.18		Must purchase modular classrooms for swing space
Total Building cost	\$186.22		
Total Site cost	\$11.21		
otal Building & Site	\$197.43	\$27,178,321.03	
		200 200 200 200 200 200 200 200 200 200	
VE Fees		\$2,446,048.89	
Topographical survey Septech investigation		\$30,000.00	
Seotech investigation Permitting		\$28,000.00 \$35,000.00	
On-site supervision by Owner		\$125,000.00	
Nove Management		\$40,000.00	
Owner admin. Costs		\$10,000.00	
Printing / Advertising		\$75,000.00	
Construction testing	1		Includes additional abatement monitoring
Furniture & Equipment \$1,000 per student Fechnology \$1000 per students			purchase and install new furniture, fixtures, and equip. purchase and install new technology equipment as recommended
		\$550,000.00	Parameter and mount for wormong equipment so recommende
Project Contingency		\$2,717,832.10	project and construction contingency 10.0% of Construction
Project Management		\$543,566.42	
an parameter and the same and			
otal Project Cost	\$254.82	\$35,078,768.45	
BAB Reimbursement	\$152.89	\$21,047,261.07	600

^{*} Costs are derived from a database of Massachusetts Public School projects which were bid during year 2005. Two years of 4% inflation have been added to all costs to r

* Costs do not include interest and other borrowing costs

* SBAB reimbursement is an estimate. Exact reimbursement is determined after a full project submittal is made to the School Building Assistance Program

Cost Analysis		750 Students	Renovation East Bridgewater High School
Renovation	1	Renovation	
East Bridgewater HS	 		
1-May-07	Cost/SF	Addition Cost	Comments
Sitework	\$17.76		Earthwork, parking, paving, lawn, fields, planting
Wastewater Treatment Facility	\$18.10		Treatment facility serving all adjacent town buildings
Phasing General Conditions	\$11.63 \$13.21		Phased/occupied construction assumed - extend construction period Contractor's overhead, profit, and mobilization
Demolition	\$4.81		Selective interior demolition - multiple phases
ead Removal	\$1.03		Lead abatement
Concrete & Rebar Masonry	\$1.40 \$20.32		Saw-cut and replacement of existing where required Repointing of exterior. Partial Replace int/ext. Restore finish, Replace lintels, etc
Structural Steel	\$6.69		Seismic mod. at exstg. bldg.
Exterior Metal Studs & Sheathing	\$3.86		infili areas and replacement areas. Rear wall replacement. Soffits
Misc. Metals	\$5.66		Stairs, railings, lintels, roof edge angles, and misc. ornamental
Stair Expansion Joints	\$0.00 \$0.21		Not applicable - included in misc. metals Wall, Ceiling, Floor Interior and Exterior Retro fit existing building
Rough Carpentry	\$1.24		rough blocking, sills, lockers, casework, shelving, etc.
Millwork and Woodwork	\$7.63	\$1,224,935.46	Display cases, paneling, wainscotting, cafeteria, library, etc.
Glass Fiber Reinforced Plastic	\$0.90		Main Entry, Cafetorium, and Public Spaces
Roofing and Flashing Damproofing and Caulking	\$7.25 \$1.28		Replacement incl. Insulation - Membrane Roofing, partial asphalt shingles damproofing, vapor barrier, sealants
Building Insulation and Vapor Barrier	\$4.04		Energy code modifications to exterior walls
Spray Fireproofing	\$0.98	\$157,331.16	Spray Fireproofing - protection of existing structure
Exterior Insulation Finish System	\$0.91		Exterior soffits and miscellaneous accent replacements
Skylights Firestopping	\$0.81 \$0.19		Misc. skylight additions Wall Terminations, Pipe Penetrations, Conduits, etc
Steel Door Frames	\$0.70		Interior and Exterior Steel Door Frames to be painted
Steel Doors	\$0.29	\$46,557.18	Fire rated doors
Wood Doors	\$0.79		Interior Wood Doors
Hardware Access Doors	\$1.23 \$0.05		Door hardware including latches, hinges, panic hardware, locksets, sweeps, etc Access panels located in walls and ceilings for access to mechanical, plumbing
Overhead Coiling Doors	\$0.05		Roll up Doors for loading dock and interior coiling grilles for foodservice
Alum. Windows, Storefront, Curtainwall	\$6.89	\$1,106,134.38	New windows, storefront, curtainwall
Glass & Glazing	\$0.49		Interior doors and windows, rated and non-rated glass
nterior Metal Framing Gypsum Drywall / Veneer plaster	\$4.73 \$6.22		Interior walls and half height partitions. Furring over existing walls. new drywall/veneer plaster and soffit board
Deramic, Quarry, and Porcelain Tile	\$1.69		Entry vestibules, main lobby, kitchen, high traffic areas
Acoustical Ceilings	\$2.26	\$382,824.92	New lay-in ceiling system
Wood Flooring- Gym and Stage	\$1.79		Gymnasium and auditorium stage
Resilient Flooring Carpet	\$2.34 \$0.42		Vinyl composition tile and sheet vinyl Library media and administrative areas
Acoustical Panels	\$0.43		Acoustical treatment at cafetorium, music room
Painting	\$1.81	\$290,581.02	Paint at interior and exterior
Markerboards and Tackboards	\$0.64		Install Markerboards and tackboards
oilet Partitions and Screens Architectural Louvers	\$0.23 \$0.27		Install toilet partitions and urinal screens Install exterior mechanical and ventilation louvers and screens
Signage and Graphics	\$0.23		Install exterior and interior building signage
Metal Lockers	\$0.90	\$144,487.80	Install new metal lockers
Fire Extinguisher Cabinets	\$0.07		Install new fire extinguisher cabinets
oilet Accessories Stage Curtains and Rigging	\$0.18 \$0.74		Install Paper towel, soap, toilet paper dispensers, mirrors, coat hooks, etc. Install stage curtain and rigging at auditorium
ixed Auditorium Seating	\$0.51		Replacement of auditorium seating
Projection Screens	\$0.13	\$20,870.46	Install new projection screens @ all classrooms
ood Service Equip.	\$2.35		New equipment for full service kitchen
Appliances Gym Backstop	\$0.30 \$0.36		Misc. appliances Install backstops and provide motorized main court backstop
Sym Divider Curtain	\$0.32		Install motorized dividing curtain with mesh top
Vall Pads	\$0.20	\$32,108.40	Install wall pads at perimeter of gym
Misc. Gymnasium Equipment	\$0.10		install floor sleeves and misc. PE equipment
Casework / Fixed Entrance Mats	\$5.38 \$0.16		Provide new casework @ classrooms, media center, administration, etc. Provide at all main vestibules
elescoping Bleachers	\$0.60		Electrically operated bleachers at Gymnasium
sbestos Removal	\$7.12		Phased abatement of existing building
ire Protection	\$2.99		Fully sprinklered building
Elevator Plumbing	\$0.97 \$9.03		Two multi-stop hloeless hydraulic elevator Install new plumbing systems throughout
IVAC	\$26.23		Install new HVAC systems throughout
lectrical & Telecom.	\$18.62	\$2,989,292.04	Install new electrical systems throughout
Modular Classrooms	\$3.88		Modular classrooms required for occupied renovation
otal Building cost otal Site cost	\$208.89 \$35.86	\$33,535,618.38 \$2,851,225.92	
otal Building & Site	\$244.75	\$36,386,844.30	
		123,230,044,00	
/E Fees		\$3,092,881.77	
opographical survey		\$32,000.00	
Seotech investigation Permitting		\$18,000.00 \$40,000.00	
on-site supervision by Owner		\$275,000.00	
love Management		\$150,000.00	
wner admin. Costs		\$30,000.00	
rinting / Advertising	 	\$75,000.00 \$30,000.00	
az Mat removal monitoring		\$125,000.00	
urniture & Equipment \$1,250 per student		\$937,500.00	purchase and install new fumiture, fixtures, and equip.
echnology \$1250 per students		\$937,500.00	purchase and instail new technology equipment as recommended
F&E and Technology Consultants		\$131,250.00	
roject Contingency		\$3 839 884 42	project and construction contingency 10% of Construction
roject Contingency		\$727,736,89	project and contourdant contingency 1070 of Consulction
otal Project Cost	\$290.44	\$46,627,397.38	
DAD Doimhumament	6474.00	807 070 400 4	DOM:
BAB Reimbursement	\$174.26	\$27,976,438.43	00%
otal Cost to E. Bridgewater	8440.45	P40 000 000	400/
THE LEFT TO M MEGGOWETOF	\$116.17	\$18,650,958.95	140%
		Dublic School accident	nich were bid during year 2008/2007. Two years of 5% inflation have

Cost Analysis		900 Students	New Central Elementary School
New Central Elementary		New Construction:	128,700
	Cost/SF	Cost	Comments
Sitework Vastewater Treatment Facility	\$14.11		Earthwork, parking, paving, lawn, fields planting Not applicable - assume tie into new HS system
hasing	\$0.00	\$0.00	Not applicable
General Conditions	\$12.38 \$6.28		Contractor's overhead, profit, and mobilization Demolition and removal of existing building
ead Removal	\$0.00	\$0.00	Not applicable - included in demolition
Concrete & Rebar Masonry	\$8.21 \$33.86		foundations, footings, slab Exterior and interior masonry and pre-cast concrete
Structural Steel	\$18.23	\$2,346,201.00	New structural steel
Exterior Metal Studs & Sheathing Misc. Metals	\$8.89 \$5.41		Exterior cold formed metal framing Stairs, railings, lintels, roof edge angles, and misc. ornamental
Stair	\$0.00	\$0.00	Not applicable - included in misc. metals
Expansion Joints Rough Carpentry	\$0.24 \$1.78		Wall, Ceiling, Floor Interior and Exterior
Millwork and Woodwork	\$7.92		rough blocking, sills, lockers, casework, shelving, etc. Display cases, paneling, wainscotting, cafeteria, library, etc.
Glass Fiber Reinforced Plastic	\$1.43		Main Entry, Cafetorium, and Public Spaces
Roofing and Flashing Damproofing and Caulking	\$8.36 \$1.79		Membrane Roofing, partial asphalt shingles damproofing, vapor barrier, sealants
Building Insulation and Vapor Barrier	\$2.91	\$374,517.00	New exterior wall insulation / under slab insul. @ barrier
Spray Fireproofing Exterior Insulation Finish System	\$0.34 \$1.96		Spray Fireproofing Exterior Insulation Finish System
Skylights	\$1.28	\$164,736.00	Cafeteria, Library Media Center
Firestopping Steel Door Frames	\$0.26 \$0.84		Wall Terminations, Pipe Penetrations, Conduits, etc
Steel Doors	\$0.29	\$37,323.00	Fire rated doors
Nood Doors Hardware	\$0.79 \$1.41		Interior Wood Doors Door hardware including latches, hinges, panic hardware, locksets, sweeps, etc
Access Doors	\$0.05	\$6,435.00	Access panels located in walls and ceilings for access to mechanical, plumbing
Overhead Coiling Doors	\$0.20		Roll up Doors for loading dock and interior coiling grilles for foodservice New windows, storefront, curtainwall
Alum, Windows, Storefront, Curtainwall Glass & Glazing	\$7.31 \$1.47	\$189,189.00	Interior doors and windows, rated and non-rated glass
nterior Metal Framing	\$6.13	\$788,931.00	Interior walls and half height partitions
Sypsum Drywall / Veneer plaster Ceramic, Quarry, and Porcelain Tile	\$8.43 \$1.67		New drywall/veneer plaster and soffit board Entry vestibules, main lobby, kitchen, high traffic areas
Acoustical Ceilings	\$2.28	\$293,436.00	New lay-in ceiling system
Wood Flooring- Gym and Stage Resilient Flooring	\$1.23 \$2.13		Gymnasium and auditorium stage Vinyl composition tile and sheet vinyl
Carpet	\$0.42	\$54,054.00	Library media and administrative areas
Acoustical Panels Painting	\$0.43 \$1.89		Acoustical treatment at cafetorium, music room Paint at interior and exterior
Markerboards and Tackboards	\$0.64	\$82,386.00	Install Markerboards and tackboards
Toilet Partitions and Screens Architectural Louvers	\$0.23 \$0.26		Install toilet partitions and urinal screens Install exterior mechanical and ventilation louvers and screens
Signage and Graphics	\$0.23		Install exterior and interior building signage
Metal Lockers	\$0.89		Install new metal lockers
Fire Extinguisher Cabinets Follet Accessories	\$0.07 \$0.18		Install new fire extinguisher cabinets Install Paper towel, soap, toilet paper dispensers, mirrors, coat hooks, etc.
Stage Curtains and Rigging	\$0.29	\$37,323.00	install stage curtain at cafetorium stage
Fixed Auditorium Seating Projection Screens	\$0.00 \$0.13		Not applicable Install new projection screens @ all classrooms
Food Service Equip.	\$1.93	\$248,391.00	New equipment for full service kitchen
Appliances Gym Backstop	\$0.11 \$0.38		Misc. appliances Install backstops and provide motorized main court backstop
Sym Divider Curtain	\$0.32	\$41,184.00	Install motorized dividing curtain with mesh top
Vall Pads Misc. Gymnasium Equipment	\$0.19 \$0.11		Install wall pads at perimeter of gym Install floor sleeves and misc. PE equipment
Casework / Fixed	\$6.09	\$783,783.00	Provide new casework @ classrooms, media center, administration, etc.
Entrance Mats Felescoping Bleachers	\$0.16 \$0.34		Provide at all main vestibules 3 rows bleachers @ gym
Asbestos Removal	\$1.67		Required abatement prior to demolition
Fire Protection	\$2.93 \$0.71	\$377,091.00	Fully sprinklered building
Elevator	\$0.71 \$6.39		One multi-stop hloeless hydraulic elevator install new plumbing systems throughout
IVAC	\$25.63	\$3,298,581.00	install new HVAC systems throughout
Electrical & Telecom. Modular Classrooms	\$17.31 \$0.00		Install new electrical systems throughout Not applicable
Total Building cost	\$225.67	\$29,043,729.00	
Total Site cost Total Building & Site	\$14.11 \$239.78	The second secon	
otal bullulity of Sittl	⊕∠38.18	\$30,859,686.00	
VE Fees		\$2,237,327.24	
opographical survey Seotech investigation		\$32,000.00 \$28,000.00	
Permitting		\$30,000.00	
On-site supervision by Owner flow Management	-	\$175,000.00 \$40,000.00	
Owner admin. Costs		\$10,000.00	
Printing / Advertising Construction testing		\$75,000.00 \$40,000.00	
laz Mat removal monitoring		\$30,000.00	
umiture & Equipment \$1,000 per student		\$900,000.00	purchase and install new furniture, fixtures, and equip.
F&E and Technology Consultants		\$900,000.00 \$126,000.00	purchase and install new technology equipment as recommended
Project Contingency		\$1,542,984.30	project and construction contingency 5.0% of Construction
roject Management		\$540,044.51	
otal Project Cost	\$291.89	\$37,566,042.04	1000 10
BAB Reimbursement	\$175.13	\$22,539,625.22	60%
otal Cost to E. Bridgewater	\$116.76	\$15,026,416.82	
			hich were bid during year 2006/2007. Two years of 5% inflation have

Cost Analysis New East Bridgewater HS		750 Students New Construction:	New East Bridgewater High School
1-May-07	Cost/SF	Cost	Comments
itework	\$23.17		Earthwork, parking, paving, lawn, fields, planting
Vastewater Treatment Facility	\$19.38		Treatment facility serving all adjacent town buildings Not applicable
Phasing General Conditions	\$13.78		Contractor's overhead, profit, and mobilization
Demolition	\$4.47	\$689,667.36	Demolition and removal of existing building
ead Removal	\$8.02		Not applicable - included in demolition foundations, footings, slab
Concrete & Rebar Masonry	\$32.32		Exterior and interior masonry and pre-cast concrete
Structural Steel	\$16.88	\$2,604,381.44	New structural steel
xterior Metal Studs & Sheathing	\$8.61		Exterior cold formed metal framing
Misc. Metals	\$5.44 \$0.00		Stairs, railings, lintels, roof edge angles, and misc. ornamental Not applicable - included in misc. metals
xpansion Joints	\$0.17		Wall, Ceiling, Floor Interior and Exterior
Rough Carpentry	\$1.64		rough blocking, sills, lockers, casework, shelving, etc.
Aillwork and Woodwork Blass Fiber Reinforced Plastic	\$8.25 \$1.58		Display cases, paneling, wainscotting, cafeteria, library, etc. Main Entry, Cafetorium, and Public Spaces
Roofing and Flashing	\$7.91		Membrane Roofing, partial asphalt shingles
Damproofing and Caulking	\$1.69	\$260,746.72	damproofing, vapor barrier, sealants
Building Insulation and Vapor Barrier	\$2.79		New exterior wall insulation
Spray Fireproofing Exterior Insulation Finish System	\$0.49 \$2.25		Spray Fireproofing Exterior Insulation Finish System
Skylights	\$1.23		Cafeteria, Library Media Center
irestopping	\$0.23		Wall Terminations, Pipe Penetrations, Conduits, etc
iteel Door Frames	\$0,80		Interior and Exterior Steel Door Frames to be painted Fire rated doors
Vood Doors	\$0.79	\$121,887.52	Interior Wood Doors
lardware	\$1.58		Door hardware including latches, hinges, panic hardware, locksets, sweeps, etc
Access Doors Overhead Coiling Doors	\$0.05 \$0.20		Access panels located in walls and ceilings for access to mechanical, plumbing Roll up Doors for loading dock and interior coiling grilles for foodservice
Jum. Windows, Storefront, Curtainwall	\$7.41		New windows, storefront, curtainwall
Slass & Glazing	\$1.59	\$245,317.92	Interior doors and windows, rated and non-rated glass
nterior Metal Framing	\$5.86 \$6.22		Interior walls and half height partitions
Sypsum Drywall / Veneer plaster Ceramic, Quarry, and Porcelain Tile	\$6.22 \$1.69		New drywall/veneer plaster and soffit board Entry vestibules, main lobby, kitchen, high traffic areas
coustical Ceilings	\$2.26	\$348,690.88	New lay-in ceiling system
Vood Flooring- Gym and Stage	\$1.79		Gymnasium and auditorium stage
Resilient Flooring Carpet	\$2.34 \$0.42		Vinyl composition tile and sheet vinyl Library media and administrative areas
coustical Panels	\$0.64		Acoustical treatment at cafetorium, music room
ainting	\$1.81		Paint at interior and exterior
farkerboards and Tackboards oilet Partitions and Screens	\$0.64 \$0.23		Install Markerboards and tackboards Install toilet partitions and urinal screens
rchitectural Louvers	\$0.23		Install exterior mechanical and ventilation louvers and screens
ignage and Graphics	\$0.23	\$35,486.24	Install exterior and interior building signage
fetal Lockers	\$0.90 \$0.07		Install new metal lockers
ire Extinguisher Cabinets oilet Accessories	\$0.07		Install new fire extinguisher cabinets Install Paper towel, soap, toilet paper dispensers, mirrors, coat hooks, etc.
stage Curtains and Rigging	\$0.99	\$152,745,12	Install stage curtain and rigging at auditorium stage
ixed Auditorium Seating	\$0.87		750 seat auditorium
Projection Screens ood Service Equip.	\$0.13 \$2.64		Install new projection screens @ all classrooms New equipment for full service kitchen
ppliances	\$0.30		Misc. appliances
Sym Backstop	\$0.38		install backstops and provide motorized main court backstop
Sym Divider Curtain Vall Pads	\$0.32 \$0.20		Install motorized dividing curtain with mesh top Install wall pads at perimeter of gym
Misc. Gymnasium Equipment	\$0.26		Install floor sleeves and misc. PE equipment
asework / Fixed	\$6.49		Provide new casework @ classrooms, media center, administration, etc.
intrance Mats elescoping Bleachers	\$0.30		Provide at all main vestibules Electrically operated bleachers at Gymnasium
sbestos Removai	\$1.69		Required abatement prior to demolition
ire Protection	\$2.98	\$459,778.24	Fully sprinklered building
levator	\$0.70 \$8.55		One multi-stop hioeless hydraulic elevator Install new plumbing systems throughout
IVAC	\$8.55		Install new humbing systems throughout Install new HVAC systems throughout
lectrical & Telecom.	\$17.59	\$2,713,925.92	Install new electrical systems throughout
Indular Classrooms	\$0.00		Not applicable
otal Building cost otal Site cost	\$226.12 \$23.17	\$34,887,602.56 \$3,574,852.96	
otal Building & Site	\$249.29	\$38,482,455.52	
/E Fees		\$2,692,371.89	
opographical survey Seotech investigation	-	\$32,000.00 \$38,000.00	
ermitting		\$40,000.00	
n-site supervision by Owner		\$175,000.00	
love Management wner admin. Costs	1	\$40,000.00 \$10,000.00	
rinting / Advertising		\$75,000.00	
onstruction testing		\$50,000.00	
az Mat removal monitoring umiture & Equipment \$1,250 per student	-	\$85,000.00 \$937,500.00	purchase and install new furniture, fixtures, and equip.
echnology \$1250 per students			purchase and install new turniture, fixtures, and equip. purchase and install new technology equipment as recommended
F&E and Technology Consultants		\$131,250.00	
roject Contingency roject Management		\$1,923,122.78 \$673,092.97	project and construction contingency 5% of Construction
otal Project Cost	\$300.10	\$46,302,293.15	
BAB Reimbursement	\$180.06	\$27,781,375.89	60%
otal Cost to E. Bridgewater	\$120.04	\$18,520,917.26	40%
otal Cost to E. Bridgewater			hich were bid during year 2006/2007. Two years of 5% inflation have
Costs are derived from a database of Mar			