## **Owner's Project Manager (OPM)**



Belmont High School February 15, 2017 | Presentation





JOE NAUGHTON AIA, LEED AP PRINCIPAL-IN-CHARGE

K-12 PROJECTS: East Bridgewater Jr/Sr. HS Southeastern Reg. Voc. HS Dracut High School **Tri-County High School** Marlborough High School Melrose High School Leicester High School Wareham High School Webster's Park Avenue ES **Revere Hill School Revere Paul Revere Revere Rumney March** West Revere Complex Howe Manning ES Kane Elementary School Estabrook Elementary Stoughton (3 schools) Hatfield Academy Peabody Kennedy School And 9 other schools



### PAUL KALOUS AIA, MCPPO PROJECT DIRECTOR/SR. PM

#### MSBA FUNDED PROJECTS:

Natick High School **Everett High School** East Bridgewater Jr/Sr. HS Southeastern Reg. Voc. HS Dracut High School **Tri-County High School** Marlborough High School Melrose High School Leicester High School Wareham High School Kane Elementary School Estabrook Elementary Stoughton (3 schools) Hatfield Academy Peabody Kennedy School Abington Woodsdale ES Braintree – 5 schools Braintree East Middle Groton Dunstable MS Gardner Elm Street And 2 other schools



### INGER HAMRE-FOLEY MCPPO PROJECT COORDINATOR

#### MSBA FUNDED PROJECTS:

Braintree East Middle Atlantis Charter School Study Hadley Elementary School Southeastern Reg. Voc. HS Estabrook Elementary School Marlborough High School Kane Elementary School Dracut High School East Bridgewater High School



### MARTY GOULET MCPPO SITE PROJECT MANAGER

#### K-12 PROJECTS:

Webster Park Elementary Dracut High School Estabrook Elementary School Burgess Elementary School Boylston Elementary School Park Avenue Elementary School Glenwood Elementary School Spencer-East Brookfield RSD Rutland Elementary School Spencer Middle School Boylston Elementary School Pepperell Middle School Varnum Brook Elementary School Narragansett High School





## **Relevant Experience**







Southeastern Regional Vocational Technical High School | \$33M









## Project Understanding

- Solve overcrowding for High School and Middle School grades as well
- Increase High School learning space
- Provide 21st century collaborative team learning spaces
- Provide adequate science/STEM space
- Improve the quality of the facility







Please provide detailed information on the roles each member of your team will play, relative to the various phases of the project. Include the time commitments that can be expected of each team member during the particular phases. Identify which team members will be expected to attend the various meetings and presentations that will take place over the duration of the project, including those with stakeholders, including, but not limited to, school staff, students and parents. Please indicate which team member is expected to be the prime contact with the Massachusetts School Building Authority. The BHSBC is anxious to get to know the individuals that will be working with the Committee on a daily basis. Therefore, we request that each team members be prepared to speak directly on the roles they will be playing for this project.

As OPM, you are the advocate for, and assistant to, the Owner during design and construction. Discuss how you will interact with the design team and contractor during the project relative to addressing the desires of the Owner, and keep the Owner informed on project scope, schedule, and budget. Provide an example from a prior project.

Provide a spreadsheet indicating your proposed cost estimator's performance with Chapter 149 and 149A public projects over the last ten years. Information in a spreadsheet form is preferred, noting pre-bid estimate, actual bid amount, and final construction costs. Overall project contingencies should be noted in bulk dollars as well as percentage of estimated construction cost.

| Modern HVAC and lighting systems often have an overall Building Management System (BMS) or Energy Management System (EMS) controlling them.

4 Frequently when a project is complete, Owners struggle with understanding, operating and maintaining such systems due to their complexity. What is your approach to ensure the Owner can effectively operate these systems after the project is complete.

In an MSBA funded School project such as Belmont High School, please describe the areas in which an OPM provides the greatest value to an Owner. Describe the characteristics of your firm which demonstrate that you can provide the highest level of value for Belmont.



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CORE TEAM		ughton ED AP	Paul H AIA, M		Inger Han MCF		Marty Goulet MCPPO	
Strategy								
Resource Management								
Overall Team Direction								
Building Committee Meetings								
Team Management								
Risk Assessment/Management								
Day-to-Day Client Interface								
Educational Planning								
MSBA Lead								
MSBA Submissions/Propay								
Design Team Management								
Contractor Team Management								
Document Review								
Cost Estimating								
Project Scheduling								
Project Team Management								
User Meeting Coordination								
Logistics Planning								
Contractor Prequalification								
Procurement								
Contract Management								
Project Controls								
Job Site QA/QC								
Principal Liaison								
Commissioning Coordination								
MEP Systems								
FF&E Coordination							•	
Technology Coordination							•	
	Joe Reilly	Mark	Dan	Frank	Rick	Allyson	Kate	Fred

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RESOURCE POOL





Responsibility Matrix Each Module is in addition to the General Tasks		AUGHTON II-in-Charge		ALOUS Actor/Sr. PM	INGER HAN Project Co		MARTY Site Project	
General								
Strategy								
Resource Management								
Overall Team Direction								
Building Committee Meetings								
Team Management								
Risk Assessment/Management								
Day to Day Client Interface								
MSBA Prime Contact								
MSBA Submissions / Propay								
Design Team Management								
Contractor Team Management								
Module 2: Project Team		0%	20	19%	20	97.	0	97.
Designer Selection		078	20	76	20	70		70
	_	0%		0%	40	07		77
Module 3: Feasibility Study		0%	50	70	40	76	0	/6
Preliminary Design Program		+						
Site Assessment								
Stakeholder Meetings							L	
Planning Options								
Cost Estimating / Budget / Schedule						_		
Town Information Forum								
Public Meetings / Community Review								
School Committee								
MSBA FSA Mtg / Preferred Schematic								
Modules 4 & 5: Schematic Design/PFA	1	0%	50	0%	40	%	0	%
Stakeholder Meetings								
Document Review								
Cost Estimating / Budget / Schedule								
Town Information Forum								
Project Scheduling								
School Committee								
MSBA Grant Submission								
Project Funding Agreement Approval								
Module 6: DD, CDs, and Bidding	1	0%	50	0%	40	%	10	0%
Document Review								
Cost Estimating								
Project Scheduling								
User Meeting Coordination								
Logistics Planning								_
Contractor Prequalification	-							
Procurement / Contracting								
Module 7: Construction Admin.		0%	40	0%	50	%	10	0%
Contract Management								
Document Management								
Project Controls								
Job Site QA/QC								
Principal Liaison					-			
Commissioning Coordination								
MEP Systems Coordination								
FF&E Coordination								
Technology Coordination		-						
		5%	_1(	0%	50	97.	50	07
		370		J70	50	70	50	//6
Module 8: Closeout								
O&M Manuals			_					
O&M Manuals Final Contract Negotiations						•		
O&M Manuals	Joe	Mark	Dan	Frank	Rick	Allyson	Kate	Fred

<u>HILL</u> Hill International



Responsibility Matrix Each Module is in addition to the General Tasks







PAUL KALOUS Project Director/Sr. PM



**INGER HAMRE-FOLEY** 

**Project Coordinator** 



MARTY GOULET Site Project Manager

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General								
Strategy								
Resource Management								
Overall Team Direction								
Building Committee Meetings								
Team Management								
Risk Assessment/Management								
Day to Day Client Interface								
MSBA Prime Contact								
MSBA Submissions / Propay								
Design Team Management								
Contractor Team Management								
Module 2: Project Team	10	0%	20	0%	20	1%	0	%
Designer Selection								
	Joe Reilly	Mark McDowell	Dan Tuberty	Frank Murphy	Rick Anderson	Allyson Toner	Kate Schroth	Fred Scibelli





Responsibility Matrix Each Module is in addition to the General Tasks		UGHTON		ALOUS		MRE-FOLEY	MARTY	GOULET
		-in-Charge		ector/Sr. PM	Project Co			t Manager
Module 3: Feasibility Study	1	0%	50	0%	40	0%	0	%
Preliminary Design Program								
Site Assessment								
Stakeholder Meetings								
Planning Options								
Cost Estimating / Budget / Schedule								
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School Committee								
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Modules 4 & 5: Schematic Design/PFA	1	0%	50	0%	40	0%	0'	%
Stakeholder Meetings								
Document Review								
Cost Estimating / Budget / Schedule								
Town Information Forum								
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School Committee								
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Project Funding Agreement Approval								
	Joe Reilly	Mark McDowell	Dan Tuberty	Frank Murphy	Rick Anderson	Allyson Toner	Kate Schroth	Fred Scibelli

Responsibility Matrix Each Module is in addition to the General Tasks		JOE NAUGHTON Principal-in-Charge		ALOUS Actor/Sr. PM	INGER HAN Project Co		MARTY Site Project	GOULET t Manager
Module 6: DD, CDs, and Bidding	10	0%	50	%	40	1%	10	%
Document Review								
Cost Estimating								
Project Scheduling								
User Meeting Coordination								
Logistics Planning								
Contractor Prequalification								
Procurement / Contracting								
	Joe Reilly	Mark McDowell	Dan Tuberty	Frank Murphy	Rick Anderson	Allyson Toner	Kate Schroth	Fred Scibelli

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		UGHTON -in-Charge		ALOUS ector/Sr. PM	INGER HAN Project Co	<b>VIRE-FOLEY</b> pordinator		<b>GOULET</b> It Manager
Module 7: Construction Admin.	10	0%	40	0%	50	)%	10	0%
Contract Management								
Document Management								
Project Controls								
Job Site QA/QC								
Principal Liaison								
Commissioning Coordination								
MEP Systems Coordination								
FF&E Coordination								
Technology Coordination								
Module 8: Closeout	5	%	10	0%	50	)%	50	0%
O&M Manuals								
Final Contract Negotiations								
Final Propay BRR and Reimbursement								
	Joe Reilly	Mark McDowell	Dan Tuberty	Frank Murphy	Rick Anderson	Allyson Toner	Kate Schroth	Fred Scibelli

<u>HIILL</u> Hill International



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### **Project Charter**

#### Definition of Project Success

The top items voted by the committee and project team that will make a successful Park Avenue School Building Project are listed below.

### The Park Avenue Elementary School Project will:

- ✓ New School for the Elementary Students
- ✓ Technology
- ✓ Best Bang for the Buck (times 3)
- ✓ On Time on Budget (times 2)
- ✓ Age Appropriate (times 2)
- ✓ Building scaled to the age group (times 2)
- ✓ Design to support 21<sup>st</sup> Century Skills
- Easy Access to media / technology
- Building that increases public support for the school system
- Use the building process to engage and excite the community
- ✓ Community use / Resource for Community
- ✓ Innovative
- Responsible / Visible Value
- Attract people into the community and promote larger Webster revitalization.
- Building to create excitement, appearance, feel (architectural) bring out the passion from within the families of the community
- ✓ Easy access I.E., limited ramping requirements
- ✓ Open and welcoming spaces
- Solve the vertical challenges of the site
- Green technologies / sustainability
- ✓ Low energy costs
- Unify the Town Boards in support of the project









### Meeting Schedule

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25-Sep-14

Time	Wednesday September 24	Thursday September 25	Tuesday September 30	Wednesday October I	Thursday October 2	Wednesday October 8	Thursday October 9	Wednesday October 15	Thursday October 16	Wednesday October 22	Thursday October 23	Wednesday October 29	Thursday October 30
8:00 - 10:00				Building Code Meeting 8:30 - 10:00		Trade Contractor SOQ's due by 2PM							Loading Dock Package Due
10:00 - 12:00	Steam Tunnel Construction Heeting South College 10:00 - 12:00	Core Team 10:00 - 12:00		Steam Tunnel Construction Meeting South College 10:00 - 12:00	Review West Façade with Juanita Holler	Steam Tunnel Construction Meeting South College 10:00 - 12:00		Steam Tunnel Construction Meeting South College 10:00 - 12:00	MEP incl. CX 10:00-12:00	Steam Tunnel Construction Meeting South College 10:00 - 12:00	Exterior Design, Exterior Envelope Analysis, Structural	Steam Tunnel Construction Meeting South College 10:00 - 12:00	Architectural Acoustics, Audi
12:00 - 2:00		Design Mtg (Façade, Meeting Schedule) 12:30 - 2:00	Cost Estimate Reconciliation 10:30 - 3:30		(TBD) SD estimate and scope reconciliation 10:00 - 3:00	Lighting Design	Faculty 10:00-3:00	Temporary Loading Dock Progress	Building Code Update 12:30 - 1:30	Prequalification Crnte Meeting	Design (with lunch break) 10:00-2:00	Mechanical Design Update 12:30 - 2:00	Visual Design, Lo Voltage, Detail Classroom Desig (wilunch break) 10:00 - 3:00
2:00 - 4:00	-			Last day for questions on RFQ for Trade Contractors	Site Design 3:00 - 4:00	1:00 - 2:30		Prequalification Crnte Meeting 2:30 - 4:00	LEED 1:30 - 3:00	12:30 - 3:00	Site Design 2:00 - 3:00	Prequalification Crite Meeting 2:00 - 4:00	
												SEPTEN	IBER 2014
Mass Participants	Executive Oversight Committee	Vision Group	Core Team	Faculty	Building Design	Site Design	Civil/Utilities/ O&M	MEP/Energy/ Sustainability	Classrooms	Construction	Trade Contractor Prequalification	7         8         9           14         1.8         16           21         22         22           26         29         26	16 11 12 17 18 19 24 25 26
	Chnellr Subbaswame	Jim Stares	Bryan Harver	Tom Huf	Carol Barr	Brzan Harvez	Tom Shaw	Tom Shaw	Carol Barr	Tom Shaw	Kevin Burns		
		Jim Sheehan	Juanita Holler	Pam Rooney	Brean Harver	Juanita Holler	John Mathewa	John Mathews	Bryan Harver	John Mathewa	Henry Merriman	Appropriate Transition.	
	Jim Sheehan	Carol Barr	Ray Jackson	Jeff Dalzell	Juanita Holler	Tom Shaw	Jason Vinditti	Esra Small	Tom Huf	Henry Merriman	Don Klema		
	Carol Barr Mike Malone	Mike Malone John Dubach	Shane Conklin Tom Shaw	Henry Merriman Nariman Mostafavi	Tom Shaw John Mathewa	John Mathewa Dennia Swinford	Simon Raine Jeff Dalzell	Lu Pavlova Patricia O'Flahertr	Pam Rooney Jeff Dalzell	Jason Venditti	Paul Kalous	OCTOR	BER 2014
	John Dubach	Bryan Harvey	John Mathews	Joe Bartolomeo	Dennis Swinford	Simon Raine	Henry Merriman	Nariman Mostafavi	Henry Merriman			anapat kendel Palajat a	1 2 2
	Brean Harver	Juanita Holler	Dennis Swinford	Joanne Dolan	Tom Huf	Pam Rooner	Ray Jackson	Jeff Dalzell					
	Juanita Holler	Shane Conklin	Tom Huf	Jenny Spencer	Pam Rooner	Jeff Dalzell	Pam Monn	Henry Merriman				5 6 7	8 9 10



Pam Rooner

Henry Merriman

Joe Bartolomeo

Joanne Dolan

Jeff Dalzell

Nikki Stola

Joseph Levine

Jeff Dalzell

Julie Haves

Henry Marriman

Joe Bartolomeo

Joanne Dolan

Jay Schafer

Henry Marriman

Brock Cutting

Joe Bartolomeo

Joanne Dolan

Jay Schafer

Pam Monn

Dan McCarthy

Gary Glaster

Jason Burbank

Joe Bartolomeo

Joanne Dolan

Ray Jackson

Jason Burbank

Joe Bartolomeo

Joanne Dolan

Shane Conklin

Dennis Swinford

Joe Bartolomeo

Tom Shaw

Julie Haves

Tom Shaw

Julie Hares

Dennis Swinford

Joe Bartolomeo



June 30, 2010	Option 1A New & Renovation	Option 1B New & Renovation	Option 3C New & Renovation	Madel School - New Construction	Local Option - Piecemeal Repair:
PROGRAM					
Enrollment Total Area of Renovation	1160	11950	1160	1160	1160
Total Area of New Construction	62,400	58,300	75,400	229,262	0
Total Building Area	218,390	216.080	216,360	229.762	174.610
Construction Start	Spring 2012	Spring 2012	Spring 2012	Winter 2011	2
Project Duration	2 years	2 years	2 years	2 years	10 years
School Opens	Fail 2014	Fall 2014	Fail 2014	Fall 2014	NA.

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June 30, 2010	Option 1A New & Renovation	Option 1B New & Renovation	Option 1C New & Renovation	Model School - New Construction	Local Option - Piecemeal Repairs
PROGRAM					
Enrollment	1160	1160	1160	1160	1160
Total Area of Renovation	156,980	157,780	144,380	0	174,610
Total Area of New Construction	62,400	58,300	75,400	229,262	0
Total Building Area	219,380	216,080	219,780	229,262	174,610
Construction Start	Spring 2012	Spring 2012	Spring 2012	Winter 2011	2
Project Duration	2 years	2 years	2 years	2 years	10 years
School Opens	Fall 2014	Fall 2014	Fall 2014	Fall 2014	NA
PROJECT BUDGET	NOT THE REPORT OF A CONTRACT O				
PROJECT TOTALS	\$ 54,400,678.00	\$ 53,065,144.50	\$ 57,397,593.00	\$ 88,943,338.57	\$ 29,008,667.60
Total Reimbursable Costs	\$ 54,370,678.00	\$ 53,035,144.50	\$ 57,367,593.00	\$ 87,673,338.57	\$ -
Total Non-reimbursable Costs	\$ 30,000.00	\$ 30,000.00	\$ 30,000.00	\$ 1,270,000.00	\$ 29,008,667.60
MSBA Reimbursement	\$ 32,698,525.75	\$ 31,895,335.90	\$ 34,127,981.08	\$ 53,165,112.51	\$-
Total Dracut Share**	\$ 21,702,152.25	\$ 21,169,808.60	\$ 23,269,611.92	\$ 35,778,226.06	\$ 29,008,667.60
Library Bosks, Bubi-Media Software \$ 250,000.00 \$ 230,000.00 \$ Technology \$ 2,080,000.00 \$ 20,000.00 \$ 2	250,000.00 \$ 250,000.00 \$ 250,000.00 000,000.00 \$ 2,000,00 \$ 2,000,00				
Subrotari (\$ 4,425,000.00) [\$ 4,425,000.00] [\$ 4	425,000.00 5 4,425,000.00 5 4,426,000.00				
DWNER'S CONTINUENCY					
Construction Cost x 5% [\$ 1,042,433.06] [\$ 1,040,085.00] [\$ 2 PHOJECT BLOCET	004,278.00 \$ 1,478,328.30 \$ 942,454.00				
PROJECT TOTALS [\$ 54,400,638.00] [\$ 53,065,144.50] [\$ 57	397,593.00 \$ 88,943,338.57 \$ 29,008,667,60				
Total Reinbursuble Costs         S         54,130,078,080         S         53,003,144.50         S         57           Total Non-reinbursuble Costs         S         30,080,080         S         30,080,000         S	367,592.00 \$ 87,613,338.57 \$ . 30,000.00 \$ 1,210,000.00 \$ 29,008,667.60				
	127,981.08 \$ 53,165,112.51 \$ - 268.611.92 \$ 35,718.226.06 \$ 29,008.661.60				

<sup>1</sup> Design construction cost estimates are based on 2010 costs.
<sup>2</sup> Includes site costs such as new athletic fields that are not eligible for funding under MSBA rules.

 MSBA Reimbursoment
 \$ 32,688,525.75
 \$ 31,895,335.90
 \$

 Total Discut Share\*\*
 \$ 21,782,152.25
 \$ 21,180,808.60
 \$

23,268,611.92 \$

35,778,226.06 \$

29,008,667.60



roject Name roject Budget pril 1, 2014						ernational	
escription	PFA Bid Adjustment Budget	Authorized Changes	Approved Budget	Encumbered Balance	I Expenditures to Date	Balance To Spend	
onstruction CM at Risk: Preconstruction	\$ 90,000	0	90,000	5 707	0 90,000	\$	
CM at Risk: Construction CM at Risk:Contingency CM at Risk: Change Orders Subtotal	\$ 32,462,348 \$ 330,000 	0 0 560,694 560,694 \$	32,462,348 330,000 560,694 33,443,042	5,767,6 270,0 206,2 \$ 6,243,9	072 59,928 275 354,419	<u>\$</u> - <u>\$</u> - <u>\$</u> -	
hitectural & Engineering Designer - Basic Services	\$ <u>3,014,250</u> \$ <u>292,623</u>	\$ - 5 \$ (59,231) \$	3,014,250 233,392	\$ 360,0	21 \$ 2,654,229 47 \$ 55,626	\$ \$ 121,920	
Reimbursable Services Hazardous Materials Geotech & GeoEnvironmental Site Survey	\$ 117,110 \$ 36,707 \$ 1,500	\$ 32,890 \$ \$ - \$ \$0 \$	5 150,000 5 36,707 5 1,500	\$ <u>92,6</u> \$7,8	79 \$ 57,321 71 \$ 28,837 - \$ 1,500	\$ 121,920 \$ - \$ - \$ -	
Wetlands Traffic Studies Subtotal	\$ 2,060 \$ - \$ 3,464,250	\$0 \$ \$0 \$ \$ (26,341) \$		\$	- \$ 2,060 - \$ - 17 \$ 2,799,572	\$ - \$ - \$ 121.920	
inistrative Costs Owner's Project Manager Basic Services OPM: Cost Estimates	\$ 1,162,600 \$ 55,000	9		\$ 19	Project Name Estimated Project Casl	h Flow	HILL Hill Internatio
Reimbursable Services Legal Fees Advertising	\$ 15,800 \$ 30,000 \$ 10,000		5 15,800 5 30,000 5 10,000	\$ 1 \$ \$	\$45,000,000		
Owner's Insurance - Builder's Risk ther Administrative Costs (Bond Financing Costs) Env. & Site	\$ 50,000 \$ 60,000 # \$ 32,500		60,000 32,500	\$ \$	\$40,000,000		
Subtotal niture, Fixtures, and Equipment Furnishing	\$ 1,415,900 \$ 860,000	\$ - \$			\$35,000,000		and the second se
Equipment (Phone System) Computer Equipment Subtotal	\$ 80,000 \$ 791,500 \$ 1,731,500	45,734	125,734 791,500	\$ <u>11</u> \$10	\$30,000,000		17
ellaneous Project Costs Utility Fee Testing Services	\$ 50,000 \$ 110,000	47,605	97,605 110,000		\$25,000,000		
Other Project Costs (Mailing & Moving) Subtotal	\$ 75,000 \$ 235,000	47,605	75,000		\$20,000,000		Estimated Estenditure
iect Sub-Total	\$ 39,728,998	\$ 666,292 \$	40,395,290	\$ 7,57	\$15,000,000		
Owner's Contingency Construction Contingency Subtotal	\$ 643,301 \$ 419,949 \$ 1,063,250	\$ (209,906) \$			\$5,000,000		
ject Total	\$ 40,792,248	\$	40,792,248	\$ 7,57	s		
					Jul.1 Aug-1 Sep-1	Oct-: Nov-: Dec-1 Jan-1 Feb-1 Feb-1	Apr. Mays, Aug. Aug. Sep. Sep. Bes. Ang. Ang. Ang. Ang. Ang. Ang. Ang. Ang

Hill Internationa

V.C.



Staff Sergeant James J. Hill School City of Revere

Project Manager's Report February 2015



Hill International, Inc. 330 Congress Street Boston, MA 02210 617-778-0900 www.hillintl.com

HILL Hill International

- ✓ MSBA Funding thru ProPay
- ✓MSBA Submissions
- ✓Monthly Reports
- ✓ Agendas and Meeting Minutes
- ✓ Project budget and schedule control
- ✓ Document review and control



### **Drawing Review Qualitative**

#	Торіс	Comment	Reference	Suggestion	Status
Civil					
C1	Chilled water service	Chilled water supply and return are not shown on the civil or HVAC drawings. It is expected that the F chilled water will be fed from the mechanical room below the parking lot in front of the Yawkey Building.	C1, H200	Please confirm tapping equipment needed, booster pumps if required, and the 4" lines from Yawkey to F and back the Yawkey mechanical room. (Estimate carries piping through Yawkey tunnel.)	Open
C2	Steam service	The steam service from M is not called out on the plans	C1, H200	Please confirm tapping equipment needed, and how the existing service must be modified to serve the heat demand of F. (Estimate carries re-use of existing supply line.)	Open
C3	Underground communications	In the 8/22/05 scope meeting, Owner requested that the underground communications north and west of the F Building which is indicated as being under another (B) contract should be included within F scope per Owner. This was later revised by Owner in Architect email dated 8/29/05 calling for tel/data connection to tunnel only. DD: Communication lines shown from manhole in front of M to chimney into existing crawl space which enters west side of F. Under separate contract.	C1,E101, 8/29/05 Architect email	SD cost estimate is based on plans as shown.	Closed
C4	Electrical Service	An electrical service to the building has not been indicated on the Civil or the electrical site plan. DD: Temporary Electrical service shown from manhole in front of M to new handhole 10' off west side of F. Under separate contract. Permanent Electrical service from campus loop not shown.	C1, E101	Show proposed electrical service on electrical and or civil site plans. (Estimate includes a new service from Harrison Avenue with a pad mounted transformer.) DD: show permanent Electrical service from campus loop passing through new handhole in front of A entering west side of F. Under separate contract.	
C5	Downspouts	Downspouts on Site Utility Plan are not coordinated with the building elevations on sheet A702 and A703	C1, A702, A703		Closed





"Wet" material unsuitable for placing asphalt



Removal of the saturated material



The Right Solution \$37,000 Claim Avoidance







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2

#### Cost Estimating Performance

100

149         149           149         149           149         149           149         149           149         149           149         149           149         149           149         149           149         149           149         149           149         149           149         149	Education Education Education Education Education Education Education Education Education	(Baintreg) Fast Middle School Green Repair Program (Window) (Braintreg) High School Green Repair Program (Roof) (Braintreg) High, Highlands & Morrison Elem Schools - Green Repair (Gardner Ells Stret School Accelerate Repair (Groton-Ourstable) Regional Middle School Green Repair Program (Marlborough) Francis Kane ES - Green Repair (Marlborough) High School Green Repair (Melrose) High School Science Lab Initiative (Peabody) McCarthy Memorial ES - Accelerated Repair	Braintree, MA Braintree, MA Braintree, MA Gardner, MA Groton, MA Marlborough, MA Marlborough, MA Melrose, MA	\$1,421,899 \$461,950 \$1,015,295 \$3,509,176 \$1,264,769 \$851,187 \$6,017,715	\$35,113 \$18,800 \$121,569 \$184,744 \$70,283 \$59,480	2% 4% 12% 5% 6% 7%	\$1,382,193 \$367,500 \$870,000 \$2,479,542 \$942,000 \$502,986	\$1,411,363 \$359,200 \$910,266 \$2,560,461 \$982,693
149 149 149 149 149 149 149 149	Education Education Education Education Education Education	Green Repair Program (Rod) (Gardner) Hollm, Highanda & Morrison Elem Schools - Green Repair (Gardner) Elm Street School Accelerated Repair (Greton-Durstable) Regional Middle School Green Repair Program (Marlborough) Francis Kane ES - Green Repair (Marlborough) High School Green Repair (Melrose) High School Science Lab Initiative (Peabody) Miccutry Memorial (S -	Braintree, MA Gardner, MA Groton, MA Marlborough, MA Marlborough, MA	\$1,015,295 \$3,509,176 \$1,264,769 \$851,187 \$6,017,715	\$121,569 \$184,744 \$70,283 \$59,480	12% 5% 6%	\$870,000 \$2,479,542 \$942,000	\$910,266 \$2,560,461
149 149 149 149 149 149 149	Education Education Education Education Education Education	Morrison Elem Schools - Green Repair (Gorden - Elm Strets School Accelerated Repair (Gorden - Cuurstable) Regional Middle School Green Repair Program (Marlborough) Francis Kane ES - Green Repair (Marlborough) High School Green Repair (Melrose) High School Science Lab Initiative (Peabody) McCarthy Memorial ES -	Gardner, MA Groton, MA Marlborough, MA Marlborough, MA	\$3,509,176 \$1,264,769 \$851,187 \$6,017,715	\$184,744 \$70,283 \$59,480	5% 6%	\$2,479,542 \$942,000	\$2,560,461
149 149 149 149 149 149	Education Education Education Education Education	Accelerated Repair (Corton-Gurstabio) Regional Middle School Green Repair Program (Marlborough) Francis Kane ES - Green Repair (Marlborough) High School Green Repair (Melrose) High School Science Lab Initiative (Peabody) McCarthy Memorial ES -	Groton, MA Marlborough, MA Marlborough, MA	\$1,264,769 \$851,187 \$6,017,715	\$70,283 \$59,480	6%	\$942,000	
149 149 149 149 149	Education Education Education Education	Green Repair Program (Marlborough) Francis Kane ES - Green Repair (Marlborough) High School Green Repair (Melrose) High School Science Lab Initiative (Peabody) McCarthy Memorial ES -	Marlborough, MA Marlborough, MA	\$851,187 \$6,017,715	\$59,480			\$982,693
149 149 149	Education Education Education	(Marlborough) High School Green Repair (Melrose) High School Science Lab Initiative (Peabody) McCarthy Memorial ES -	Marlborough, MA	\$6,017,715		7%	6502 096	
149 149	Education Education	(Melrose) High School Science Lab Initiative (Peabody) McCarthy Memorial ES -					\$302,580	\$604,489
149	Education	(Peabody) McCarthy Memorial ES -	Melrose, MA		\$331,599	6%	\$5,416,660	\$5,453,667
		(Peabody) McCarthy Memorial ES - Accelerated Repair		\$4,608,349	\$389,183	8%	\$3,398,000	\$3,587,067
149	Education		Peabody, MA	\$4,112,571	\$175,336	4%	\$3,806,054	\$3,588,934
		(Revere) Paul Revere School	Revere, MA	\$17,409,000	\$1,021,952	6%	\$17,058,354	\$16,985,012
149	Public Safety	(Revere) Police & Fire Facility	Revere, MA	\$19,179,221	\$823,750	5%	\$16,475,000	\$16,293,815
149	Education	(Revere) Rumney Marsh Academy	Revere, MA	\$23,500,000	\$1,229,200	5%	\$24,584,000	\$25,813,200
149	Education	(Revere) SS James J. Hill Elementary School	Revere, MA	\$33,216,037	\$1,815,000	5%	\$31,575,000	\$32,796,787
149	Education	Dracut Senior High School	Dracut, MA	\$48,761,626	\$2,849,031	6%	\$45,900,000	\$48,551,860
149	Education	East Bridgewater Jr/Sr High School	East Bridgewater, MA	\$61,428,887	\$3,016,007	5%	\$61,054,000	\$63,452,294
149	Education	Everett High School	Everett, MA	-	-		\$63,956,850	\$65,981,049
149	Education	High School Roof Replacement	Leicester, MA	\$2,097,427	\$111,291	5%	\$1,237,000	\$1,239,202
149	Education	Howe-Manning Elementary School	Middleton, MA	\$21,668,420	\$1,779,454	8%	\$17,857,000	\$19,086,085
149	Municipal	Marlborough Senior Center	Marlborough, MA	\$6,390,481	\$428,829	7%	\$6,410,682	\$6,715,590
149	Education	Natick High School	Natick, MA	\$69,965,825	\$4,828,800	7%	\$61,641,865	\$63,718,227
149	Education	Wareham High School Accelerated Repair	Wareham, MA	\$2,256,596	\$119,487	5%	\$869,600	\$917,763
149	Education	Tri-County Regional Voc. Tech. High School	Franklin, MA	\$1,139,946	\$86,936	8%	\$908,800	\$924,640
149	Education	Webster Park Avenue Elementary School	Webster, MA	\$35,840,565	\$1,920,987	5%	\$32,370,000	\$33,477,884
149A	Education	(Lexington) Diamond Middle School	Lexington, MA	\$35,375,834	\$2,547,252	7%	\$33,565,892	Completion Fall 2018
149A	Education	(Lexington) Estabrook Elementary School	Lexington, MA	\$32,149,592	\$1,063,250	3%	\$32,792,348	\$33,194,578
149A	Education	(Lexington) Jonas Clarke Middle School	Lexington, MA	\$15,130,473	\$1,028,810	7%	\$15,770,050	Completion Fall 2017
149A	Education	Abby Kelley Foster Charter Public School	Worcester, MA	\$15,606,549	\$1,652,495	11%	\$15,443,377	\$16,998,329
149A	Education	Atlantis Charter School	Fall River, MA	\$29,523,993	\$2,038,985	7%	\$26,923,258	Completion Spring 2018
149A	Higher Ed.	Bridgewater State University	Bridgewater, MA	\$49,500,000	\$4,000,000	8%	\$49,011,000	\$50,800,000
149A	Public Safety	Malden Police Headquarters	Malden, MA	\$12,866,618	\$233,398	2%	\$12,294,368	\$12,269,222
149A	Education	Southeastern Regional Voc. Tech. High School	South Easton, MA	\$27,048,216	\$1,723,203	6%	\$26,700,000	\$27,590,926
149A	Higher Ed.	UMass Amherst - Design Building	Amherst, MA	\$38,298,168	\$3,823,695	10%	\$38,298,553	\$39,570,380
149A	Higher Ed.	UMass Amhest - South College	Amherst, MA	\$46,857,727	\$6,200,000	13%	\$47,232,263	\$49,679,163
149A	Higher Ed.	Umass Lowell - North Quad	Lowell, MA	\$13,988,930	\$1,510,249	12%	\$12,811,843	\$15,227,924
149A	Higher Ed.	Umass Dartmouth - SMAST	New Bedford, MA	\$40,230,788	\$3,317,433	9%	\$37,503,066	Completion Fall 2017



Project Delivery	Project Type	Project Name	Location	Pre-Bid Estimate	Budgeted Contingency	Contingency Percentage	Actual Bid Amount	Final Construction Cost
149	Education	(Braintree) East Middle School Green Repair Program (Window)	Braintree, MA	\$1,421,899	\$35,113	2%	\$1,382,193	\$1,411,363
149	Education	(Braintree) High School Green Repair Program (Roof)	Braintree, MA	\$461,950	\$18,800	4%	\$367,500	\$359,200
149	Education	(Braintree) Hollis, Highlands & Morrison Elem Schools - Green Repair	Braintree, MA	\$1,015,295	\$121,569	12%	\$870,000	\$910,266
149	Education	(Gardner) Elm Street School Accelerated Repair	Gardner, MA	\$3,509,176	\$184,744	5%	\$2,479,542	\$2,560,461
149	Education	(Groton-Dunstable) Regional Middle School Green Repair Program	Groton, MA	\$1,264,769	\$70,283	6%	\$942,000	\$982,693
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Please provide detailed information on the roles each member of your team will play, relative to the various phases of the project. Include the time commitments that can be expected of each team member during the particular phases. Identify which team members will be expected to attend the various meetings and presentations that will take place over the duration of the project, including those with stakeholders, including, but not limited to, school staff, students and parents. Please indicate which team member is expected to be the prime contact with the Massachusetts School Building Authority. The BHSBC is anxious to get to know the individuals that will be working with the Committee on a daily basis. Therefore, we request that each team members be prepared to speak directly on the roles they will be playing for this project.

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Provide a spreadsheet indicating your proposed cost estimator's performance with Chapter 149 and 149A public projects over the last ten years. Information in a spreadsheet form is preferred, noting pre-bid estimate, actual bid amount, and final construction costs. Overall project contingencies should be noted in bulk dollars as well as percentage of estimated construction cost.

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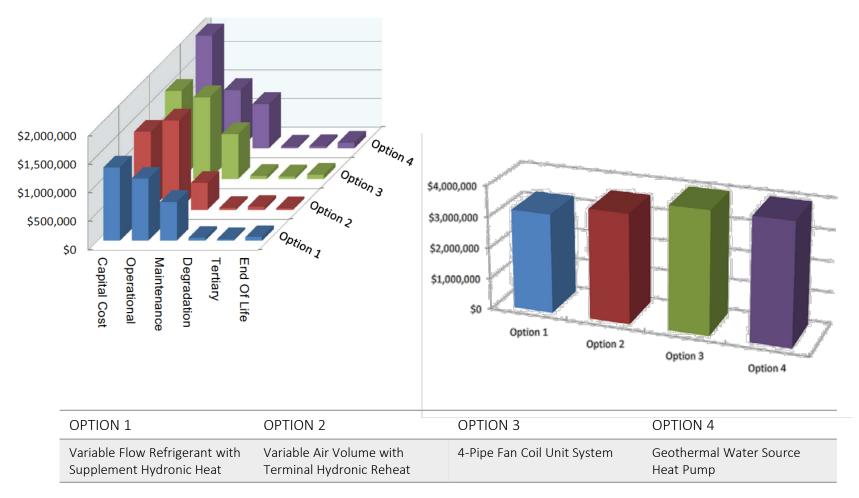


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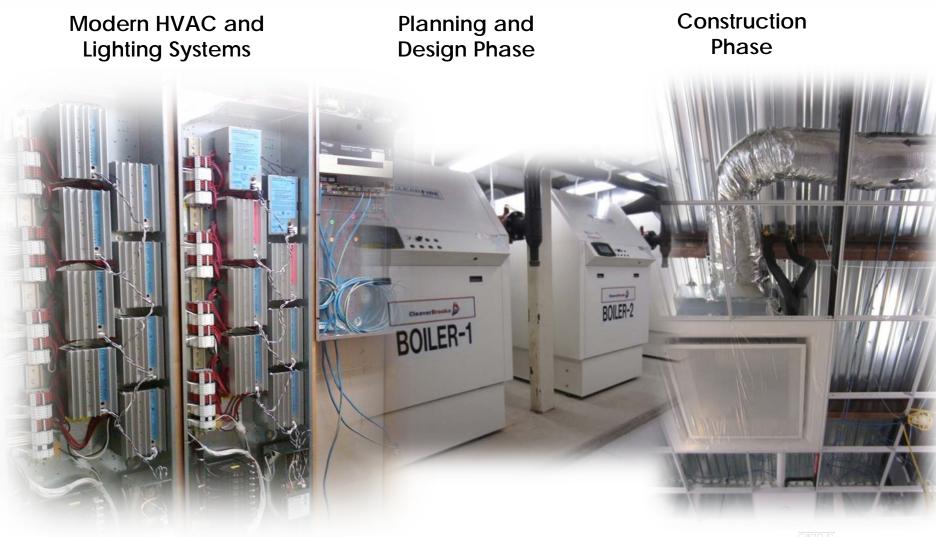
4











<u>FIILI</u> Hill International



### **Documents** library

training video



Sign-in Sheets



Sprinkler Fire Protection (Cogswell) 2-6-14 .mp4



Stage Curtain Walker Specialties) 2-12-14.mp4



Elevators (Eagle) 2-18-14.mp4



Boilers (Frank I.

Rounds)

1-22-14.mp4

Lighting

'nLight'

Controls

(Acuity) 2-7-1...

Window

Treatments

(Walker

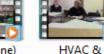
Kitchen Equipment -Convection Oven (Blodget...



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Equipment -Steamer





RTU's (Trane) 1-27-14.mp4 Plumbing Overview (E

Fire Alarm

(Simplex)

2-7-14.mp4

PA-Clock

System

(Eastcoast)

2-18-14.mp4

(Evolution).mp4



Scoreboards (Nevco) 2-11-14.mp4



Security System (Eastcoast) 2-18-14.mp4





Telecom (Eastcoast) 2-14-14.mp4





Domestic Water Heaters (Emerson Swan) 2-19-14.mp4



Equipment (Armstrong) 2-3-14.mp4



Marmoleum Floors (Forbo) 2-12-14.mp4



Kitchen Equipment -Slicer (Bizerba) 2-19-14.mp4



Generator

(Griffin)

2-4-14.mp4

Hufcor)

Local Sound

Systems

(Simplex)

2-21-14.mp4



Overall Electrical (Griffin) 2-4-14.mp4

Arrange by: Folder 🔻





Cafe Partition Projection Screen (NE Wall (Corbin Interiors) 2-14-14.mp4 2-12-14.mp4



Classroom Audio (Lightspeed) 2-21-14 .mp4

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27 | OWNER'S PROJECT MANAGER (OPM) | BELMONT HIGH SCHOOL



ERU's (E

Amanti)

1-29-14.mp4

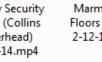
(Allegheny) 2-11-14.mp4

















ATC (Viking

Controls)

1-30-14.mp4





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#### Massachusetts School Building Authority ("MSBA") – Reimbursement Rate Calculation

- Reimbursement rates for MSBA approved, eligible school construction and renovation projects are calculated pursuant to a formula that is established in Massachusetts General Law, Chapter 70B section 10 (M.G.L. c. 70B § 10).
- The statutory formula starts <u>all districts</u> at a Base Rate of 31 percentage reimbursement points.
- The Base Rate of 31 percentage reimbursement points may be adjusted based on three socioeconomic factors:
  - **Community Income Factor**: the district's per capita income as a percent of statewide average per capita income. This data is provided by the Department of Revenue. Pursuant to statute, there is a sliding scale for the allocation of percentage points for this category based on community's relationship to the statewide average.
  - Community Property Wealth Factor: the district's per capita equalized property valuations as a percent of statewide average per capita valuations. This data is prov by the Department of Revenue. Pursuant to statute, there is a sliding scale for the allocation of percentage points for this category based on the community's relation the statewide average.
  - Community Poverty Factor: measured by the district's proportion of low income students, as defined by federal eligibility for free or reduced price lunch, as a perce the statewide average proportion of low income students. This data is provided by Department of Education. Pursuant to statute, there is a sliding scale for the alloca percentage points for this category based on community's relationship to the statew average.
- The last step in the reimbursement rate calculation process is for the MSBA, in its sole dis to review if a district is eligible for Incentive Points. Statute dictates that no district shall I eligible for more than 18 Incentive Points in total, and that no one category of Incentive Points can be more than 6 points. Current categories of Incentive Points are:
  - Model School Program (up to 5 points)
  - Newly Formed Regional School District (up to 6 points)
  - High Efficiency Green School Program (up to 2 points)
  - Best Practices for Routine and Capital Maintenance (up to 2 points)
  - Overlay Zoning (MGL 40R or 40S) (up to 2 points)
  - Use of CM-at-Risk (up to 1 point)
  - $\circ \quad \text{Renovation/Re-use of Existing Facilities (up to 5 points)}$
  - Establishing a Maintenance Trust (up to 1 point with district match
- The sum of the Base Rate, plus additional points, if any, from the three socioeconomic factors, plus Incentive Points, if any, results in the MSBA's reimbursement rate for a project.

#### Base Rate (31 points)

- + Community Income Factor (if any)
- + Community Property Wealth Factor (if any)
- + Community Poverty Factor (if any)
- + Incentive Points (if any, in the sole discretion of MSBA)
- = MSBA Reimbursement Rate
- It should be noted that regional school district reimbursement rates are calculated using the same data and factors, but each socioeconomic factor is weighted to reflect each municipality's representation of the total regional district enrollment.

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**Total Project Budget** 

Southeastern Regional School District		3/8/2011						
Southeastern Regional Vocational Technical H	igh School	3/0/2011						
TOTAL PROJECT BUDGET - ALL COSTS ASSOCIATED WITH		Total Project Budget						
THE PROJECT ARE SUBJECT TO 963 CMR 2.16(5)	Estimated B				1			
Feasibility Study Agreement	E Stillated B	Southeastern Regional School District	Southeastern Regional School District					
OPM Feasibility Study	\$15	Southeastern Regional Vocational Technical High School						
A&E Feasibility Study	\$30	, , , , , , , , , , , , , , , , , , ,		*Cost/Scope Items				
Env. & Site		TOTAL PROJECT BUDGET - ALL COSTS ASSOCIATED WITH		Excluded from the Total				
Other		THE PROJECT ARE SUBJECT TO 963 CMR 2.16(5)	Estimated Budget		*Ineligible Costs			
Feasibility Study Agreement Subtotal	\$46	FF&E Subtotal	\$1,150,000	S0	S0			
Administration		Owner's Contingency						
Legal Fees		Owner's Contingency	\$394,375					
Owner's Project Manager		Soft Costs that exceed 20% of Const'n Cost						
Design Development	SE	Total Project Budget	\$32,977,475	\$491,716	\$0			
Construction Contract Documents	\$10	Alternates	\$1,282,812	, iei,i.ie				
Bidding	\$9	1.						
Construction Contract Administration	\$50	Ineligible cost	\$0					
Closeout	\$2	Scope items excluded	\$491,716					
Extra Services		Estimated Basis of Total Facilities Grant	\$32,485,759					
Reimbursable & Other Services		Reimbursement Rate	80.00%					
Cost Estimates								
Advertising		Estimated Total Maximum Facilities Grant	\$25,988,607.56					
Permitting								
Dwner's Insurance		School District Share	\$8,271,679.79		\$34,260,287.35			
Other Administrative Costs	\$1							
Administration Subtotal	\$78	thore. This document was amound by the 1900 hand on a milimizery minuted information	and antimates arounded by the Carthout	action Decisional Calcular District for the Cau	theestern Designal Vesetional			
Architecture and Engineering		"NOTE: This document was prepared by the MSBA based on a preliminary review of information Technical high School project. Based on this preliminary review, certain budget, cost and scop						
Basic Services		exhaustive list of all budget, cost and scope items which may be ineligible for reimbursement by						
Design Development \$46		reimbursement by the MSBA. All project budget, cost and scope items shall be subject to review scope items are eligible for reimbursement. The MSBA may determine that certain additional bu			on whether any such budget, cost and			
Construction Contract Documents \$78								
Bidding	\$11							
Construction Contract Administration	\$53							
Closeout	SZ	**NOTE: Pursuant to Section 3.20 of the Project Funding Agreement and the applicable policies			a or transfer of funde from aither the			

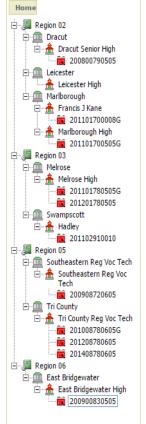
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#### Paul Kalous

Appli



		ntract etails	Budget Details		Payment Requests		Prior Requests	Audit Details	Finance		Audit Ajustments	
Budget	Projecte	d Monthly	Cash Flow	Subm	it Budget	S	cope Exclusions	Budget Re	Revisions			
District Na	ame	gewater		School Na	School Name East Bridgewater High School							
MSBA ID	MSBA ID 200900830505				Budget Phase					PFA Bid		
Procurem	ent Type	Design/B	id/Build		Total Project Budget					\$77,012,539		
Project Ty	ype	Core Prog	gram		Board App	orov	ed Final TFG Da	ite				
Project Scope		New Con School	struction - Mo	del	Estimated Max Total Facilities Grant (95% Amt) 🕐				\$40,338,354(\$38,321,436)			
FSA Effective Date		8/27/201	0		Maximum	Tot	al Facilities Gra	ilities Grant			\$42,123,179	
PFA Effective Date		5/6/2011			Total MSB	Total MSBA Payment Amount (to				\$38,301,128		
PFA Bid D	ate	5/11/201	2		Percent of Total Facilities Grant Paid (to Date)					94.95%		

**Project Phase** 

Budget Status: The PFA Bid budget has been reviewed.

64.94%

Submitted By : Patricia Lugo Submitted Date : 5/21/2012

Building Complete

Expand All

Reimbursement

Rate

#### Export Budget to Excel

Classification	Classification Code	Total Project Budget 🔮	Scope Exclusions	Budget Revisions 🕜	Basis for Total Facilities Grant 😲	Submitted Amount (to Date) 🕐	Percent Submitted	Eligible Project Cost 🕐	Percent of Eligible Project Cost
🗄 🗉 Totals		\$77,012,539	\$14,393,905	\$0	\$62,618,634	\$76,458,462	99%	\$61,255,353	97.82%
🖃 💿 Feasibility Study Agreement	0000-0000	\$761,649	\$102,858	\$33,941	\$692,732	\$823,785	108%	\$590,807	85.28%
···· 🖸 OPM - Feasibility Study	0001-0000	\$203,000	<u>\$0</u>	<u>\$0</u>	\$203,000	\$186,603	92%	\$186,603	91.92%
🖬 🗛 - Feasibility Study	0002-0000	\$295,913	<u>\$492</u>	\$33,941	\$329,362	\$363,795	123%	\$329,362	100.00%
🖬 Environmental & Site	0003-0000	\$262,736	\$102,366	<u>\$0</u>	\$160,370	\$271,462	103%	\$74,842	46.66%
🖸 Other	0004-0000	\$0	<u>\$0</u>	<u>\$0</u>	\$0	\$1,925	0%	\$0	0.00%
🗄 🖬 Administration	0100-0000	\$2,041,000	\$50,000	\$0	\$1,991,000	\$1,881,375	92%	\$1,796,764	90.24%
🗄 🖬 Architecture & Engineering	0200-0000	\$2,979,883	\$310,673	\$201,957	\$2,871,167	\$3,076,724	103%	\$2,671,734	93.05%
🗄 🖬 Site Acquisition	0300-0000	\$0	\$0	\$0	\$0	\$0	0%	\$0	0.00%
🗄 🖬 Construction Contract	0500-0000	\$68,123,406	\$13,580,374	\$0	\$54,543,032	\$67,651,731	99%	\$53,817,036	98.66%
🗄 💿 Miscellaneous Project Costs	0600-0000	\$275,000	\$100,000	\$0	\$175,000	\$196,733	72%	\$99,012	56.57%
🕂 🖬 Furnishing & Equipment	0700-0000	\$2,530,000	\$250,000	\$0	\$2,280,000	\$2,718,759	107%	\$2,280,000	100.00%
🗄 🕢 Owner's Contingency	0800-0000	\$301,601	\$0	(\$235,898)	\$65,703	\$109,355	36%	\$0	0.00%

FIII Internation



### **Community Outreach**



Public Forums

Website / Facebook







IOSTPH ESTABLOOK FLIMENTARY SCHOOL

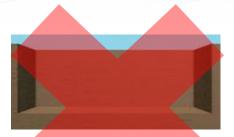
SDC Logistics & Phasing Plans 11-12-2013

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Foundation cross section



Traditional over-excavation foundation system



Alternative pile system



Piles with structural slab on grade

\$377,000 Savings

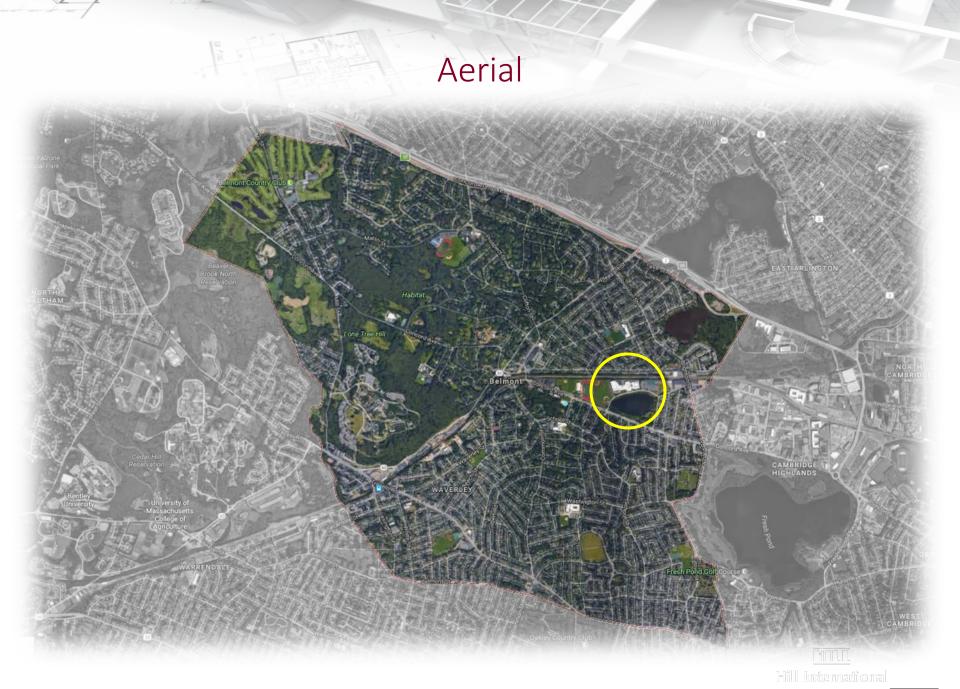






# QUESTION & ANSWER







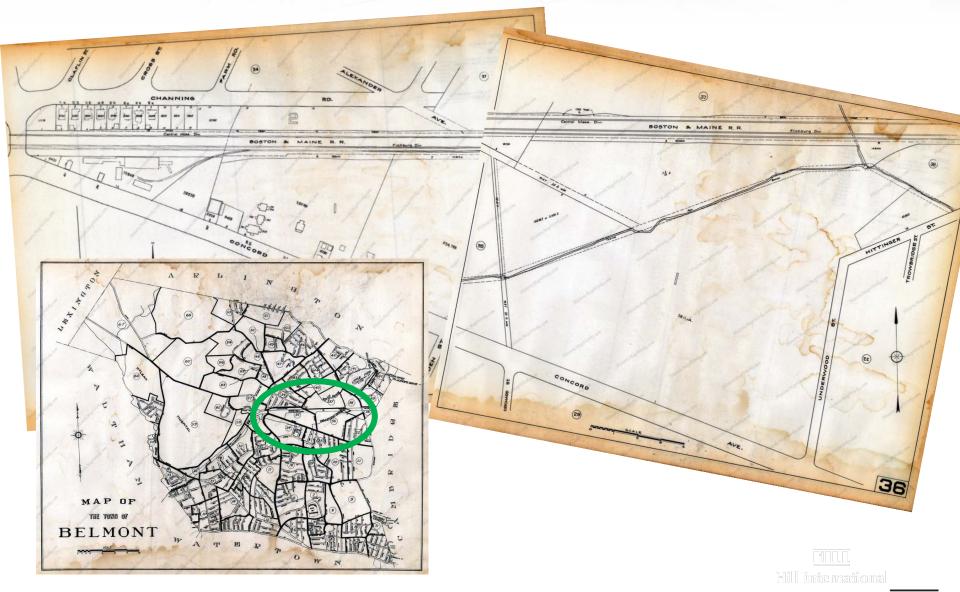




<u>Hill International</u>



#### Belmont Assessor 1931





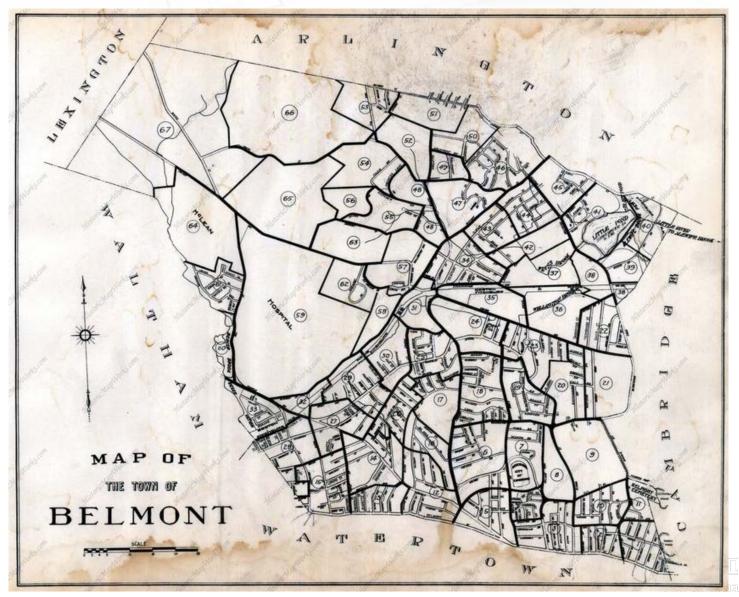
#### 1898 Atlas



Hill Internationa



#### Map of Belmont 1933



40 | OWNER'S PROJECT MANAGER (OPM) | BELMONT HIGH SCHOOL



### Site Logistics











## Chapter 149/149A Comparison

#### Chapter 149

Contractor selects you through their low-bid

Traditional delivery system

Lowest price on bid day

Tight documents are essential

Variation from bid day plan often results in exposure to cost and time claims

General Contractor at risk for all costs and all the profit

Low initial cost that will rise due to change orders





#### Chapter 149A

Contractor selection is a qualifications based process – you select the CM

CM input is received before bidding

Allows flexibility to fast track project

Contract is open book and costs are audited

Variation is managed through contingencies to reduce cost and time claims

Profit and fee is stipulated and limited

Higher initial cost, but change order costs managed better within initial cost

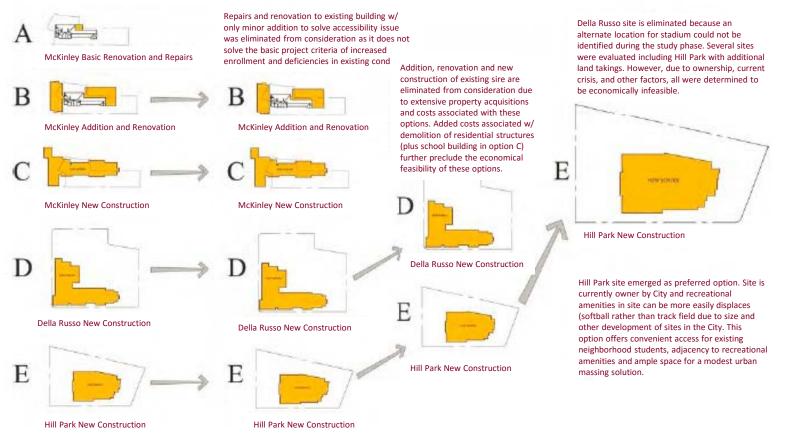






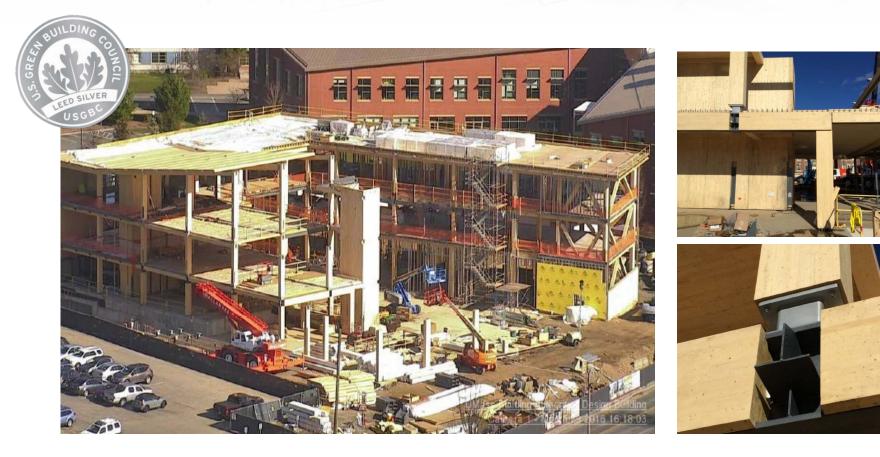
#### Site Evaluation

This diagram shows the sequence of decisionmaking in getting to the preferred option.





### Sustainability and Quality Assurance







## Management Philosophy





- To deliver project successfully, we will:
- ✓ Adhere to Belmont Program
- ✓ Help Ensure compliance to all MSBA requirements
- ✓Control budget
- ✓Control schedule
- ✓ High Quality Standards
- Keep the stakeholders/community informed and aware
- Maintain a safety-focused implementation























