

**PROJECT MINUTES**

Project:	New W. Edward Balmer Elementary School	Project No.:	17020
Prepared by:	Joel Seeley	Meeting Date:	6/12/19
Re:	School Building Committee Meeting	Meeting No:	45
Location:	High School Media Center	Time:	6:30pm
Distribution:	School Building Committee Members, Attendees (MF)		

## Attendees:

PRESENT	NAME	AFFILIATION	VOTING MEMBER
✓	Joseph Strazzulla	Chairman, School Building Committee	<b>Voting Member</b>
✓	Melissa Walker	School Business Manager	<b>Voting Member</b>
	Alicia Cannon	Representative of the Board of Selectmen	<b>Voting Member</b>
✓	Michael LeBrasseur	Chairman, School Committee	<b>Voting Member</b>
✓	Paul Bedigian	Representative of the Building, Planning, Construction Committee	<b>Voting Member</b>
✓	Steven Gogolinski	Representative of the Finance Committee	<b>Voting Member</b>
✓	Jeffrey Tubbs	Community Member with building design and/or construction experience	<b>Voting Member</b>
✓	Peter L'Hommedieu	Community Member with building design and/or construction experience	<b>Voting Member</b>
	Jeff Lundquist	Community Member with building design and/or construction experience	<b>Voting Member</b>
	Andrew Chagnon	Community Member with building design and/or construction experience	<b>Voting Member</b>
✓	Spencer Pollock	Parent Representative	<b>Voting Member</b>
	Adam Gaudette	Town Manager	Non-Voting Member
✓	Amy McKinstry	Interim Superintendent of Schools	Non-Voting Member
✓	Richard Maglione	Director of Facilities	Non-Voting Member
✓	Karlene Ross	Principal, W. Edward Balmer Elementary School	Non-Voting Member
✓	Jill Healy	Principal, Northbridge Elementary School	Non-Voting Member
✓	Gregory Rosenthal	Director of Pupil Personnel Services	Non-Voting Member
✓	Lee Dore	D & W, Architect	
✓	Thomas Hengelsberg	D & W, Architect	
	David Fontaine	Fontaine Bros, CM	
✓	David Fontaine, Jr	Fontaine Bros, CM	
	David Barksdale	Fontaine Bros, CM	
	Jim Mauer	Fontaine Bros, CM	
✓	Joel Kent	Fontaine Bros, CM	
✓	Joel Seeley	SMMA, OPM	

Item #	Action	Discussion
45.1	Record	Call to Order, 6:40 PM, meeting opened.
45.2	Record	<p>Public Comment</p> <ol style="list-style-type: none"> <li>1. Erin Donohue spoke of the need for playing fields in the town and the importance of keeping the current designed playfields in the project.</li> <li>2. Kate Tracey spoke of the numerous public meetings the School Building Committee hosted for community input and decisions leading up to the town voters approving the project as designed.</li> <li>3. Robert Dziekiewicz spoke of the lengthy community outreach process of the School Building Committee and the support for the current designed playfields.</li> </ol>
45.3	Record	A motion was made by P. Bedigian and seconded by S. Pollock to approve the 5/29/19 School Building Committee meeting minutes. No Discussion, motion passed unanimous by those attending.
45.4	Record	J. Seeley distributed and reviewed the Budget Tracking Form thru 5/31/19, attached, for the Total Project Budget
45.5	Record	<p>Warrant No. 27 was reviewed.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"> <li>1. M. LeBrasseur asked if there will be additional invoices from Graves Engineering? <i>J. Seeley indicated yes, there could one final invoice.</i></li> </ol> <p>A motion was made by M. LeBrasseur and seconded by P. Bedigian to approve Warrant No. 27. No discussion, motion passed unanimous.</p>
45.6	Record	<p>J. Seeley distributed and reviewed Easement Application from Verizon, attached, in the amount of \$75.00 to be funded out of Utility Company Fees Budget ProPay Code 0601-0000, which has a balance of \$192,750.</p> <p>A motion was made by J. Tubbs and seconded by S. Gogolinski to approve the Easement Application. No discussion, motion passed unanimous.</p>
45.7	Record	<p>J. Seeley distributed and reviewed Designer Amendment No. 15, dated 6/12/19 for Geotechnical Engineering services during the Design and Construction Administration Phases, in the amount of \$57,695.00 to be charged against ProPay Budget 0204-0300, which has a balance of \$75,430.00, attached.</p> <p>A motion was made by M. LeBrasseur and seconded by S. Pollock to approve Designer Amendment No. 15, dated 6/12/19 and recommend signature by A. Cannon. No discussion, motion passed unanimous.</p>
45.8	Record	<p>J. Seeley distributed and reviewed Designer Amendment No. 16, dated 6/12/19 for Hazardous Materials Consultancy services during the Design Phases, in the amount of \$23,100.00 to be charged against ProPay Budget 0204-0200, which has a balance of \$100,000.00, attached.</p> <p>A motion was made by J. Tubbs and seconded by S. Gogolinski to approve Designer Amendment No. 16, dated 6/12/19 and recommend signature by A. Cannon. No discussion, motion passed unanimous.</p>

Item #	Action	Discussion
45.9	Record	<p>J. Seeley distributed and reviewed Designer Amendment No. 17, dated 6/12/19 for Geoenvironmental Engineering services during Construction Administration Phase, in the amount of \$16,170.00 to be charged against ProPay Budget 0204-0300, which has a balance of \$17,735.00, attached.</p> <p>A motion was made by P. Bedigian and seconded by M. LeBrasseur to approve Designer Amendment No. 17, dated 6/12/19 and recommend signature by A. Cannon. No discussion, motion passed unanimous.</p>
45.10	Record	<p>J. Seeley distributed and reviewed Designer Amendment No. 18, dated 6/12/19 for Horticultural Soils Testing, in the amount of \$4,257.00 to be charged against ProPay Budget 0203-9900, which has a balance of \$94,500.00, attached.</p> <p>A motion was made by S. Gogolinski and seconded by M. LeBrasseur to approve Designer Amendment No. 18, dated 6/12/19 and recommend signature by A. Cannon. No discussion, motion passed unanimous.</p>
45.11	Record	<p>J. Seeley distributed and reviewed OPM Amendment No. 2, dated 6/12/19 for Owner's Structural Peer Review, in the amount of \$3,250.00 to be charged against ProPay Budget 0102-0000, which has a balance of \$40,000.00, attached.</p> <p>A motion was made by P. Bedigian and seconded by J. Tubbs to approve OPM Amendment No. 2, dated 6/12/19 and recommend signature by A. Cannon. No discussion, motion passed unanimous.</p>
45.12	J. Seeley	Committee to provide J. Seeley feedback on the listed meeting dates for the 90% Construction Documents Meetings and Agenda Schedule. J. Seeley will include on the next meeting agenda.
45.13	R. Maglione	R. Maglione will provide direction on the final list of Proprietary Specifications.
45.14	L. Dore	L. Dore to review fence or netting options for the left field line of the baseball field parallel to Crescent Street.
45.15	T. Hengelsberg	T. Hengelsberg to confirm appropriate working clearances for the boiler room equipment.
45.16	J. Seeley	J. Seeley indicated the flow meter to measure the existing infiltration and inflow (I/I) from the existing Balmer School on-site sanitary sewer distribution system was installed by DPW on 5/13/19. Based on the first-round of data, it appears that there is minimal infiltration (groundwater) entering the school's on-site sanitary sewer distribution system. JGS will follow-up with DPW in mid-July on the final results.
45.17	Record	J. Seeley provided an overview of the MSBA Design Status Review meeting held on 6/12/19 at D&W offices in Newburyport. The meeting went well and no issues were surfaced.
45.18	Record	<p>T. Hengelsberg presented updated operational and testing information on the "Won-Door" VE Item A.09, attached.</p> <p>A motion was made by J. Tubbs and seconded by S. Pollock to approve VE Item A.09 to provide two pair of swinging doors on the second and third floors, but add an electronic door actuator to one leaf on each pair, in lieu of the "Won-Door", for a savings of approximately \$40,000. No discussion, motion passed unanimous.</p> <p>T. Hengelsberg to incorporate the VE item into the 90% Construction Documents.</p>

Item #	Action	Discussion
45.19	Record	<p>T. Hengelsberg presented VE Item to provide a glue-lam and wood decking entry canopy in lieu of a metal framed entry canopy, attached.</p> <p>A motion was made by S. Gogolinski and seconded by P. L’Hommedieu to approve VE Item glue-lam and wood decking entry canopy in lieu of a metal framed entry canopy, for a savings of \$47,673. No discussion, motion passed unanimous.</p> <p>T. Hengelsberg to incorporate the VE item into the 90% Construction Documents.</p>
45.20	T. Hengelsberg	T. Hengelsberg to provide clarification on the lock-down versus egress function of the classroom locksets.
45.21	T. Hengelsberg	T. Hengelsberg to provide the approximate cost on the two options that could be pursued relative to credits for Electric Charging Stations: 1) provide and install Electric Charging Stations, including the electrical conduits and cabling connected to the building, and 2) including just the electrical conduits to the building, with the Electric Charging Stations and cabling installed in the future under a separate project.
45.22	Record	T. Hengelsberg distributed and reviewed the 4/10/19 Technology Design Meeting Minutes, 4/10/19 Mechanical Controls Meeting Minutes, 5/8/19 Technology Design Meeting Minutes, and 5/8/19 Salvage and Construction Phasing Meeting Minutes.
45.23	J. Kent A. McKinstry J. Seeley	<p>J. Kent provided an overview of the updated the Site Logistics Plans. J. Kent reviewed the cost impact of providing sod in lieu of seed for the two U-6 playfields and the two U-8 playfields, the U-6 is an add of \$10,650 and the U-8 is an add of \$22,500.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"> <li>1. J. Kent to develop the NFPA 241 plan.</li> <li>2. J. Kent to review the Site Logistics Plans with the Police and Fire Departments.</li> <li>3. J. Kent to provide a simplified version of the Site Logistics Plans for public distribution to A. McKinstry and J. Seeley. A. McKinstry to distribute to parents and J. Seeley to post on the project web-site.</li> <li>4. The Committee decided to defer any decision on adding the Sod until 2021.</li> </ol>
45.24	Record	J. Strazzulla provided an overview of the Neighborhood Informational Meeting held on 6/8/19 at the Balmer School, presentation attached. After the meeting, members of the SBC, FBI and SMMA walked the Mason Road property line with several of the Mason Road property owners. The property owners with personal property constructed on town-owned land were notified to relocate the constructed personal property by 6/28/19.
45.25	Record	D. Fontaine Jr. distributed and reviewed the Reconciled 60% Construction Documents Construction Cost Estimates from FBI and PM&C, attached. The FBI estimate reflects a construction cost of \$79,117,606 and the PM&C estimate reflects a cost of \$78,714,975, both below the construction budget of \$79,492,663.
45.26	Record	A Motion was made by M. LeBrasseur and seconded by P. Bedigian to approve the 60% Construction Documents Submittal and authorize submission to the MSBA. No discussion, motion passed unanimous.
45.27	Record	J. Seeley provided an update from the Trade Contractor Prequalification Committee.



Item #	Action	Discussion
		Three Elevator Trade Contractor Qualification packages and six Waterproofing Trade Contractor Qualification packages were received and the Prequalification Committee will meet on 6/25/19 to review.
45.28	Record	<p><b>Site Permitting</b> - J. Seeley provided an overview of the site permitting as follows:</p> <p><b>Conservation Commission</b></p> <ol style="list-style-type: none"> <li>NOI Hearing closed and draft Order of Conditions has been issued, attached.</li> </ol> <p><b>Planning Board</b></p> <ol style="list-style-type: none"> <li>Planning Board issued Final Site Plan Approval Conditions, attached.</li> </ol>
45.29	Record	J. Strazzulla provided an update from the Ground Breaking Ceremony Committee on the Ground Breaking Ceremony scheduled for 9:00am on 6/15/19. T. Hengelsberg distributed the Ground Breaking Ceremony Flyer, attached.
45.30	Record	<b>Committee Questions</b> - none
45.30	J. Seeley R. Maglione	<p><b>Old or New Business</b></p> <ol style="list-style-type: none"> <li>J. Seeley to poll the Committee on availability for the 7/2/19 SBC meeting.</li> <li>J. Seeley distributed and reviewed the 4/23/19 School Committee minutes, attached, voting to name the school Northbridge Elementary School.</li> <li>T. Hengelsberg reviewed the existing electrical transformer and emergency generator issue, attached, that occurred on 4/28/19. R. Maglione will test the emergency generator under full load on 6/14/19.</li> <li>T. Hengelsberg presented the Mass Notification System currently included in the project. After review, the Committee agrees to keep this system in the project.</li> </ol>
45.31	Record	Next <b>SBC Meeting: 6/18/19 at 6:30 pm</b> at the High School Media Center. The anticipated agenda item is to vote to approve the Early Site Package Amendment.
45.32	Record	A Motion was made by S. Gogolinski and seconded by M. LeBrasseur to adjourn the meeting. No discussion, motion passed unanimous.

Attachments: Agenda, Budget Tracking Form, Warrant No. 27, Easement Application from Verizon, Designer Amendment No. 15-18, OPM Amendment No. 2, 4/10/19 Technology Design Meeting Minutes, 4/10/19 Mechanical Controls Meeting Minutes, 5/8/19 Technology Design Meeting Minutes, and 5/8/19 Salvage and Construction Phasing Meeting Minutes, Neighborhood Informational Meeting presentation, Reconciled 60% Construction Documents Construction Cost Estimates from FBI and PM&C, draft Order of Conditions, Final Site plan Approval Conditions, Ground Breaking Ceremony Flyer, 4/23/19 School Committee minutes, Powerpoint

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

# PROJECT MEETING SIGN-IN SHEET

Project: New W. Edward Balmer Elementary School  
 Prepared by: Joel Seeley  
 Re: School Building Committee Meeting  
 Location: High School Media Center  
 427 Linwood Avenue, Whitinsville, MA  
 Distribution: Attendees, (MF)

Project No.: 17020  
 Meeting Date: 6/12/2019  
 Meeting No: 45  
 Time: 6:30pm

SIGNATURE	ATTENDEES	EMAIL	AFFILIATION
	Joseph Strazzulla	<a href="mailto:jstrazzulla@nps.org">jstrazzulla@nps.org</a>	Chairman, School Building Committee
	Melissa Walker	<a href="mailto:mwalker@nps.org">mwalker@nps.org</a>	School Business Manager, MCPPO
	Alicia Cannon	<a href="mailto:cannonhome0927@gmail.com">cannonhome0927@gmail.com</a>	Member, Board of Selectmen, CEO
	Michael LeBrasseur	<a href="mailto:mlebrasseur@nps.org">mlebrasseur@nps.org</a>	Chairman, School Committee
	Paul Bedigian	<a href="mailto:bedigianps@cdmsmith.com">bedigianps@cdmsmith.com</a>	Representative of the Building, Planning, Construction Committee
	Steven Gogolinski	<a href="mailto:steve@gogolinskicpa.com">steve@gogolinskicpa.com</a>	Representative of the Finance Committee
	Jeffrey Tubbs	<a href="mailto:jtubbs@charter.net">jtubbs@charter.net</a>	Member of community with architecture, engineering and/or construction experience
	Peter L'Hommedieu	<a href="mailto:plhommedieu@shawmut.com">plhommedieu@shawmut.com</a>	Member of community with architecture, engineering and/or construction experience
	Jeff Lundquist	<a href="mailto:j_lundquist@charter.net">j_lundquist@charter.net</a>	Member of community with architecture, engineering and/or construction experience
	Andrew Chagnon	<a href="mailto:achagnon@vertexeng.com">achagnon@vertexeng.com</a>	Member of community with architecture, engineering and/or construction experience
	Spencer Pollock	<a href="mailto:spencerpollock22@gmail.com">spencerpollock22@gmail.com</a>	Parent Representative
	Adam Gaudette	<a href="mailto:agaudette@northbridgemass.org">agaudette@northbridgemass.org</a>	Town Manager
	Amy McKinstry	<a href="mailto:amckinstry@nps.org">amckinstry@nps.org</a>	Interim Superintendent
	Richard Maglione	<a href="mailto:rmaglione@nps.org">rmaglione@nps.org</a>	Building Maintenance Local Official
	Karlene Ross	<a href="mailto:kross@nps.org">kross@nps.org</a>	Principal, W. Edward Balmer Elementary School
	Jill Healy	<a href="mailto:jhealy@nps.org">jhealy@nps.org</a>	Principal, Northbridge Elementary School
	Gregory Rosenthal	<a href="mailto:groenthal@nps.org">groenthal@nps.org</a>	Director of Pupil Personnel Services
	Lee P. Dore	<a href="mailto:lpdore@DoreandWhittier.com">lpdore@DoreandWhittier.com</a>	Dore & Whittier Architects
	Thomas Hengelsberg	<a href="mailto:thengelsberg@DoreandWhittier.com">thengelsberg@DoreandWhittier.com</a>	Dore & Whittier Architects
	David Fontaine, Jr.	<a href="mailto:djr@fontainebros.com">djf@fontainebros.com</a>	Fontaine Bros., Inc.
	David Barksdale	<a href="mailto:dbarksdale@fontainebros.com">dbarksdale@fontainebros.com</a>	Fontaine Bros., Inc.
	Jim Mauer	<a href="mailto:jmauer@fontainebros.com">jmauer@fontainebros.com</a>	Fontaine Bros., Inc.
	Joel Kent	<a href="mailto:jkent@fontainebros.com">jkent@fontainebros.com</a>	Fontaine Bros., Inc.
	Joel Seeley	<a href="mailto:jseeley@smma.com">jseeley@smma.com</a>	SMMA

## Agenda

Project:	New W. Edward Balmer Elementary School	Project No.:	17020
Re:	School Building Committee Meeting	Meeting Date:	6/12/2019
Meeting Location:	High School Media Center	Meeting Time:	6:30 PM
	427 Linwood Avenue, Whitinsville, MA	Meeting No.:	45
Prepared by:	Joel G. Seeley		
Distribution:	Committee Members (MF)		

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1. Call to Order
2. Public Comments
3. Approval of Minutes
4. Approval of Invoices and Commitments
5. Follow-up to VE Pricing – WON Door
6. Proprietary Materials Update
7. Construction Logistics Plan Update
8. Neighborhood Informational Meeting Update
9. Review Reconciled 60% Construction Documents Cost Estimate
10. Decide Value Engineering Items
11. Vote to Submit 60% Construction Documents Package to MSBA
12. Groundbreaking Ceremony – June 15, 2019 at 9:00 AM
13. New or Old Business
14. Committee Questions
15. Next Meeting: June 18, 2019
16. Adjourn

Symmes Maini & McKee Associates, Inc. (SMMA) Northridge School District Northridge W. Edward Balmer Elementary School BUDGET SUMMARY							BUDGET TRACKING FORM as of: 5/31/2019				
Propay code #	Name	Original PS&B Budget 6/20/2018	Budget Revisions	Current Budget	Contract Amount	Expended	Remaining Contract Amount	Additional Projected Amount	(A - B - E) Budget Balance		
				A	B	C	D	E			
1	Feasibility Study Agreement	105,000.00		105,000.00	105,000.00	105,000.00	-	-	-		
2	OPM Feasibility Study	425,000.00		425,000.00	425,000.00	425,000.00	-	-	-		
3	A&E Feasibility Study	150,000.00		150,000.00	146,753.50	145,543.50	1,210.00	-	3,246.50		
4	Environmental and Site	95,000.00		95,000.00	51,759.59	51,759.59	-	-	43,240.41		
	<b>Other</b>	<b>775,000.00</b>	<b>\$ -</b>	<b>775,000.00</b>	<b>728,513.09</b>	<b>727,303.09</b>	<b>\$ 1,210.00</b>	<b>\$ -</b>	<b>46,486.91</b>		
	<b>Feasibility Study Agreement Subtotal</b>	<b>\$ 775,000.00</b>	<b>\$ -</b>	<b>\$ 775,000.00</b>	<b>\$ 728,513.09</b>	<b>\$ 727,303.09</b>	<b>\$ 1,210.00</b>	<b>\$ -</b>	<b>\$ 46,486.91</b>		
	<b>Administration</b>										
6	Legal Fees	80,000.00		80,000.00	-	-	-	-	80,000.00		
7	Owner's Project Manager	180,250.00		180,250.00	180,250.00	180,250.00	-	-	-		
8	> Design Development	250,025.00		250,025.00	250,025.00	37,503.75	212,521.25	-	-		
9	> Construction Contract Documents	95,050.00		95,050.00	95,050.00	-	95,050.00	-	-		
10	> Bidding	1,912,599.00		1,912,599.00	1,912,599.00	-	1,912,599.00	-	-		
11	> Construction Contract Administration	120,080.00		120,080.00	120,080.00	-	120,080.00	-	-		
12	> Closeout	100,000.00		100,000.00	-	-	-	-	100,000.00		
13	> Extra Services	40,000.00		40,000.00	-	-	-	-	40,000.00		
14	> Reimbursable & Other Services	-		-	-	-	-	-	-		
15	> Cost Estimates	20,000.00		20,000.00	49.14	49.14	-	-	19,950.86		
16	Advertising	50,000.00		50,000.00	4,728.10	4,728.10	-	-	45,271.90		
17	Permitting	80,000.00		80,000.00	-	-	-	-	80,000.00		
18	Owner's Insurance	60,000.00		60,000.00	300.00	300.00	-	-	59,700.00		
	<b>Other Administrative Costs</b>	<b>60,000.00</b>		<b>60,000.00</b>	<b>300.00</b>	<b>300.00</b>	<b>-</b>	<b>-</b>	<b>59,700.00</b>		
	<b>Administration Subtotal</b>	<b>\$ 2,988,004.00</b>	<b>\$ -</b>	<b>\$ 2,988,004.00</b>	<b>\$ 2,563,081.24</b>	<b>\$ 222,830.99</b>	<b>\$ 2,340,250.25</b>	<b>\$ -</b>	<b>\$ 424,922.76</b>		
	<b>Architecture and Engineering</b>										
	<b>Basic Services</b>										
21	> Design Development	1,944,609.00		1,944,609.00	1,944,609.00	1,944,609.00	-	-	-		
22	> Construction Contract Documents	2,657,249.00		2,657,249.00	2,657,249.00	442,697.68	2,214,551.32	-	-		
23	> Bidding	227,830.00		227,830.00	227,830.00	-	227,830.00	-	-		
24	> Construction Contract Administration	2,252,218.00		2,252,218.00	2,252,218.00	-	2,252,218.00	-	-		
25	> Closeout	164,136.00		164,136.00	164,136.00	-	164,136.00	-	-		
26	> Other Basic Services	-		-	-	-	-	-	-		
27	<b>BASIC SERVICES SUBTOTAL</b>	<b>\$ 7,246,042.00</b>	<b>\$ -</b>	<b>\$ 7,246,042.00</b>	<b>\$ 7,246,042.00</b>	<b>\$ 2,387,306.68</b>	<b>\$ 4,858,735.32</b>	<b>\$ -</b>	<b>\$ -</b>		
	<b>Reimbursable Services</b>										
28	> Construction Testing	30,000.00		30,000.00	-	-	-	-	30,000.00		
29	> Printing (over minimum)	20,000.00		20,000.00	-	-	-	-	20,000.00		
30	> Other Reimbursable Costs	100,000.00		100,000.00	10,536.13	5,036.13	5,500.00	-	89,463.87		
31	> Hazardous Materials	100,000.00		100,000.00	-	-	-	-	100,000.00		
32	> Geotech & Geo-Env.	85,000.00		85,000.00	9,570.00	4,290.00	5,280.00	-	75,430.00		
33	> Site Survey	40,000.00		40,000.00	-	-	-	-	40,000.00		
34	> Wetlands	40,000.00		40,000.00	-	-	-	-	40,000.00		
35	> Traffic Studies	35,000.00		35,000.00	-	-	-	-	35,000.00		
	<b>Architectural and Engineering Subtotal</b>	<b>\$ 7,696,042.00</b>	<b>\$ -</b>	<b>\$ 7,696,042.00</b>	<b>\$ 7,266,148.13</b>	<b>\$ 2,396,632.81</b>	<b>\$ 4,869,515.32</b>	<b>\$ -</b>	<b>\$ 429,893.87</b>		

Symmes Maini & McKee Associates, Inc. (SMMA) Northridge School District Northridge W. Edward Balmer Elementary School BUDGET SUMMARY									
BUDGET TRACKING FORM as of: 5/31/2019									
CM @ Risk Preconstruction Services									
	Original PS&B Budget 6/20/2018	Budget Revisions	Current Budget	Contract Amount	Expended	(B - C) Remaining Contract Amount	Additional Projected Amount	(A - B - E) Budget Balance	
36	0501-0000		\$ 250,000.00	\$ 210,000.00	\$ 96,924.00	\$ 113,076.00	\$ -	\$ 40,000.00	
	0502-0001		\$ 79,492,662.00	\$ -	\$ -	\$ -	\$ -	\$ 79,492,662.00	
	CSI Description								
89	0502-0100								
89	0502-0200								
89	0502-0300								
89	0502-0400								
89	0502-0500								
89	0502-0600								
89	0502-0700								
89	0502-0800								
89	0502-0900								
89	0502-1000								
89	0502-1100								
89	0502-1200								
89	0502-1400								
89	0502-2100								
89	0502-2200								
89	0502-2300								
89	0502-2600								
89	0502-3100								
89	0502-3200								
89	0502-3300								
89	0502-9900								
89	0508-0000								
89			\$ 79,492,662.00	\$ -	\$ -	\$ -	\$ -	\$ 79,492,662.00	
	Construction Budget Subtotal		\$ 79,492,662.00	\$ -	\$ -	\$ -	\$ -	\$ 79,492,662.00	
	Alternates								
90	0506-0000								
90	0506-0000								
	Ineligible Work (Maint Bldg, Press Box, Concession and Restrooms)								
	Retainage for Alternates/Ineligible Work								
	Alternates Subtotal		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Miscellaneous Project Costs								
94	0601-0000		200,000.00					200,000.00	
95	0602-0000		300,000.00					300,000.00	
96	0603-0000								
97	0699-0000		200,000.00					200,000.00	
	Other Project Costs (Mailing & Moving)								
	Miscellaneous Project Costs Subtotal		\$ 700,000.00	\$ -	\$ -	\$ -	\$ -	\$ 700,000.00	
	Furnishings and Equipment								
99	0701-0000		1,648,000.00					1,648,000.00	
	Equipment								
101	0703-0000		1,854,000.00					1,854,000.00	
	Computer Equipment								
	Furnishings and Equipment Subtotal		\$ 3,502,000.00	\$ -	\$ -	\$ -	\$ -	\$ 3,502,000.00	
103	0507-0000		3,974,633.00					3,974,633.00	
104	0801-0000		1,589,853.00					1,589,853.00	
	Owner's (soft cost) Contingency								
	Contingency Subtotal		\$ 5,564,486.00	\$ -	\$ -	\$ -	\$ -	\$ 5,564,486.00	
	Total Project Budget		\$ 100,968,194.00	\$ 10,767,742.46	\$ 3,443,690.89	\$ 7,324,051.57	\$ -	\$ 90,200,451.54	



THE NEW

# NORTHBRIDGE ELEMENTARY SCHOOL

WHITINSVILLE, MASSACHUSETTS



Project Management

OWNER'S PROJECT MANAGER:  
SYMMES, MAINI & MCKEE ASSOCIATES, INC.  
1000 Massachusetts Avenue  
Cambridge, MA 02138



DESIGNER:  
DORE & WHITTIER ARCHITECTS, INC.  
260 Merrimac Street, Building 7 Newburyport, MA  
01950



**FONTAINE BROS., INC.**  
CONSTRUCTION MANAGERS  
GENERAL CONTRACTORS

CONSTRUCTION MANAGER:  
FONTAINE BROTHERS, INC.  
510 Cottage Street  
Springfield, MA 01104

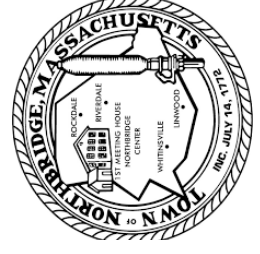


## Groundbreaking Ceremony

June 15, 2019

9:00 a.m.

Town of  
Northbridge



Northbridge  
Public Schools



THIS PROJECT IS FUNDED IN PART BY THE

MASSACHUSETTS SCHOOL BUILDING AUTHORITY

40 Broad Street, Suite 500, Boston, MA 02109



**Massachusetts School Building Authority**  
*Funding Affordable, Sustainable, and Efficient Schools in Partnership with Local Communities*

## Groundbreaking Ceremony

### The New Northbridge Elementary School

Whitinsville, Massachusetts

- Welcome
- National Anthem—Kelly Heffernan, Vincent Duca, and Keira McMahon
- Recognition of Distinguished Guests
- Remarks—NPS Superintendent Amy McKinstry and James MacDonald, MSBA CEO
- Groundbreaking and Photo Opportunity
- Closing Remarks (Joe Strazzulla)
- Refreshments to follow

### Distinguished Guests

Senator Ryan C. Fattman    Senator Michael Moore    Rep. David Muradian

### Board of Selectman

Thomas J. Melia - Chairperson    Plato Adams - Chairperson  
James J. Athanas - Vice Chairperson    James Barron - Member  
Daniel J. Nolan - Clerk    Steven Gogolinski - Member  
Charles Ampagoomian, Jr. - Member    Christopher Pilla - Member  
Alicia M. Cannon - Member    Jill Meagher - Member  
Richard Flamand - Member

### School Building Committee

Joseph Strazzulla, SBC Chair  
Alicia Cannon, Member of Board of Selectmen  
Michael LeBrasseur, Chair of School Committee  
Adam Gaudette, Town Manager

Amy McKinstry, Superintendent of Schools  
Melissa Walker, Director of Business and Finance  
Richard Maglione, Director of Facilities

Karlene Ross, Principal, Balmer Elementary School  
Jill Healy, Principal, Northbridge Elementary School

Gregory Rosenthal, Director of Pupil Personnel Services  
Steven Gogolinski, Member of Finance Committee

Paul Bedigian, Member of Building, Planning & Construction Committee

Jeffrey Tubbs, Community Member

### Peter L'Hommedieu, Community Member

Jeffrey Lundquist, Community Member  
Andrew Chagnon, Community Member  
Spencer Pollock, Parent Representative

Dr. Catherine Stickney, Former Superintendent of Schools

### Finance Committee

School Committee    Honorary Groundbreakers  
Mike LeBrasseur    Autumn Francis - PreK  
Brian Paulhus    Zachary Remillard - K  
Bethany Cammarano    **Klara L'Hommedieu** - Gr. 1

Steve Falconer    Jacob Ware - Gr. 2  
James Tritone - Gr. 3  
Zahra Rith - Gr. 4

Mackenzie Lavallee - Gr. 5



## SMMA

Project Management

## NEIGHBORHOOD MEETING SIGN-IN

Project: New W. Edward Balmer Elementary School  
 Prepared By: Joel Seeley  
 Location: W. Edward Balmer Elementary School  
 Distribution: (MF)

Project No.: 17020  
 Meeting Date: 6/8/2019

NAME	ADDRESS	Email Address
Kyle Bigness	192 MASON RD	
Michael Brooks	178 MASON RD	MBROOKS9333@gmail.com
Kathie Collins	292 MASON Rd	rwstyc34@hotmail.com
Tiffany Remillard	204 MASON RD	Tremillard10@hotmail.com
John & John Pasternack	216 MASON Rd	
Charles & Cathy Paris	230 MASON Rd	
DAVID FONTAINE SR-FBI	510 COTTAGE ST SPFD MA 01104	dave.F.C FONTAINEBROS.COM
John & Mary Armstrong	202 MASON ROAD	Tel # 508 2349354
JOSEPH STRAZZULLA -SBC		
MICHAEL LEBRASS ENR -SBC		
ANDREW CHAGNON - SBC		

1000 Massachusetts Avenue  
 Cambridge, MA 02138  
 617.547.5400

www.smma.com

Date: June 8, 2019  
Page: 2

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NAME	ADDRESS
DAVID BENJAMIN JR - FBI	
MIKE CAVANAGH - FBI	
TONY DIAS - SMMA	
JOEL SEEVEY - SMMA	



TOWN OF NORTHBRIDGE  
**PLANNING BOARD**  
7 MAIN STREET  
WHITINSVILLE, MASSACHUSETTS 01588

PHONE: (508) 234-2447

FAX: (508) 234-0821

May 16, 2019

Doreen A. Cedrone, Town Clerk  
Town of Northbridge  
7 Main Street, Whitinsville, MA 01588

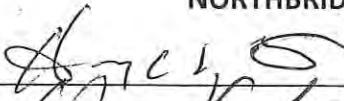
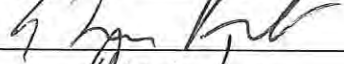

**CERTIFICATE OF APPROVAL:            SITE PLAN REVIEW - W. EDWARD BALMER ELEMENTARY SCHOOL**


Title of Plan:            W. Edward Balmer Elementary School  
Owner/Applicant:      Town of Northbridge/Dore & Whittier Architects, Inc.  
Prepared By:            Dore & Whittier Architects, Inc.  
                 Engineer:        Nitsch Engineering  
Dated:                    April 09, 2019 (& revised through May 14, 2019)  
Property Location:     21 Crescent Street -Assessor Map 7 Parcels 138 & 141  
Zoning District:        Residential-Five (R5)

Dear Mrs. Cedrone:

Please be advised at its meeting of Tuesday, May 14, 2019 the Planning Board, upon motion duly made (H. Berkowitz) and seconded (A. Kafal) voted (5-0) to APPROVE WITH CONDITIONS the site development plan for the new W. Edward Balmer Elementary School. Conditions of Approval are listed on pages 2-5, attached hereto.

**NORTHBRIDGE PLANNING BOARD – NORTHBRIDGE, MASSACHUSETTS**

  
\_\_\_\_\_  
  
\_\_\_\_\_  
  
\_\_\_\_\_

  
\_\_\_\_\_

07.30.19  
\_\_\_\_\_  
(Date)

Cc:      Town Manager/BOS  
         J. Sheehan, Building Inspector  
         J. Walsh, Graves Engineering, Inc  
         Conservation Commission  
         Planning Board  
         /File

J. Shuris, DPW Director  
Chief D. White, NFD  
Board of Health  
DPW –Sewer Division  
J. Luchini, Highway Superintendent

Applicant/Engineer  
Chief W. Warchol, NPD  
Building Department  
Whitinsville Water Company  
**School Building Committee**

**CONDITIONS OF APPROVAL – W. EDWARD BALMER ELEMENTARY SCHOOL**

In granting APPROVAL WITH CONDITIONS, the Planning Board has taken into consideration the standards for review set forth and described in the Town of Northbridge Zoning Chapter 173 §173-49.1 [Site plan review by Planning Board].

The Planning Board opened its site plan review (public meeting) for W. EDWARD BALMER ELEMENTARY SCHOOL on Tuesday, April 23, 2019 and concluded same on Tuesday, May 14, 2019.

- Pursuant to Section 173-49.1 B (2) [Application and review procedure], the Planning Board engaged the services of Graves Engineering, Inc. to perform engineering consulting services on its behalf. Reference is made to Community Planning & Development letter dated April 18, 2019 to Town Clerk.
- Reference is made to the following documents and correspondence received by the Planning Board from the Applicant/Engineer: Application for Site Plan Review dated April 09, 2019; Site Development Plan prepared by Dore & Whittier Architects, Inc. dated April 09, 2019 entitled “W. Edward Balmer Elementary School”; supplemental plan sheet(s) dated April 18, 2019; Stormwater Report prepared by Nitsch Engineering dated April 15, 2019; letter dated April 18, 2019 from Nitsch Engineering (revised stormwater report); Dore & Whittier Architects, Inc letter dated April 09, 2019; Certified List of Abutters dated April 09, 2019; copy of letter dated February 28, 2019 from Dore & Whittier Architects, Inc. to Building Inspector (Zoning Bylaw Analysis); copy of KP Law letter dated August 31, 2017 to the Northbridge School Building Committee (Affairs Article 97 -Land Disposition Policy); Proposed Parking Plan dated February 22, 2019; Proposed Event or Overflow Parking Plan dated February 22, 2019; Parking Analysis (Table 1) dated February 28, 2019; Parking Analysis (Table 2) dated February 28, 2019 (two sheets); site layout, DD Site & Landscape Design Plan and Building Elevation (Exterior 3D renderings); proposed project sign (brick monument-style w/LED); lighting specs; Transportation Impact Report prepared by Nitsch Engineering dated January 26, 2018; and copy of letter dated November 30, 2018 from Nitsch Engineering to Conservation Commission (filing of ANRAD).
- Reference is made to the following documents and correspondences received by the Planning Board: Review Report Form dated April 16, 2019; Site Plan Review Checklist prepared April 22, 2019; Community Planning & Development memorandum dated April 19, 2019 (site plan review); Conservation Commission initial questions/comments issued April 17, 2019; copy of letter dated April 24, 2019 from the Office of the Inspector of Buildings to Dore & Whittier Architects, Inc. (zoning bylaw parking & loading requirements); copy of letter correspondence dated April 23, 2019 from KP Law to Northbridge Inspector of Buildings (zoning bylaw parking & loading requirements); Whitinsville Water Company letter dated May 08, 2019; Conservation Commission (Agent) memorandum dated May 14, 2019; Board of Health memorandum dated May 14, 2019; Director of Public Works memorandum dated May 14, 2019; Graves Engineering, Inc. review/report dated May 07, 2019 (draft); and letter dated May 14, 2019 from the Fire Chief.
- Planning Board Site Development Plan approval shall be subject to the CONSERVATION COMMISSION ORDER OF CONDITIONS.

**CONDITIONS OF APPROVAL:**

1. Owner/Applicant shall comply with all applicable laws, bylaws, rules, regulations, and codes and obtain all the necessary permits and approvals; including but not limited to blasting, water/sewer, street excavation, and/or access to public-way (curb cut), if so required.
2. Planning Board Site Plan Approval shall be subject to recommendations identified by the NORTHBRIDGE SAFETY COMMITTEE (April 29, 2019).
3. Planning Board Site Plan Approval shall be subject to conditions, if any imposed by the NORTHBRIDGE CONSERVATION COMMISSION.
4. In making its decision to approve with conditions, the Planning Board reviewed proposed parking provisions and acknowledged that “educational use” may be subject to reasonable regulations. Reference is made to letter dated April 24, 2019 from the Office of the Inspector of Buildings to Dore & Whittier Architects, Inc. regarding zoning bylaw parking & loading requirements, where the Inspector of Buildings concluded the proposed parking provided was reasonable for the proposed new W. Edward Balmer Elementary School.
5. Any illumination, including security lighting shall be arranged so as to reflect away from abutting properties. Said lighting shall be directed in a manner to avoid glare and light trespass onto adjacent properties.
6. The two (2) project signs “W. Edward Balmer Elementary School” (monument-style w/internally lit LED) shall be setback from Crescent Street / site driveway and shall be arranged as to not conflict with sightlines of vehicles entering/existing the site.
7. Site driveway(s), parking aisles and vehicle access around the school building shall be a minimum of 24-feet wide as may be required by the Northbridge Fire Department.
8. Designated fire lanes, “no standing” and “no parking” signs shall be installed at locations as may be directed by the Fire Chief (Northbridge Fire Department).
9. Appropriate signage directing traffic during large school-sponsored gatherings & events shall be installed (overflow parking plan), as discussed with the Northbridge Safety Committee.
10. Owner/Applicant shall install 6-foot to 8-foot high commercial-grade white-vinyl privacy fencing along the northeasterly side of the site property; from Crescent Street (setback from road/sidewalk) through to the rear of the property, adjacent to the recreation field(s).
11. As part of the site development, Owner/Applicant has held several neighborhood meetings and met one on one with any interested property owners that abuts the eastern property line. The design team has noted concerns about runoff and groundwater and coordinated regarding cross property drainage. The retaining wall design incorporates surface and subsurface drains, as shown on the plans, to address these concerns.



12. Written confirmation from Applicant/Engineer shall be provided to the Planning Board confirming and certifying landscape plantings (proposed) are selections of appropriate native species (shade trees, shrubs, etc.). Reference is made to Northbridge's Best Development Practices Guidebook -Section 2 Landscape Design (December 2009).
13. It is the understanding of the Planning Board that the School Building Committee has expressed a willingness to continue to work with abutters along Mason Road in providing additional screening (landscaping) to the rear of individual properties. Such arrangements shall be finalized as part of the School Building Committee's ongoing discussions with abutters.
14. In accordance with requirements of the MSBA -Massachusetts School Building Authority the planned W. Edward Balmer Elementary School project shall undergo a full handicapped accessibility analysis.
15. PRIOR TO ENDORSEMENT the Site Development Plan shall be revised addressing the following:
  - a) Reference to this Planning Board Certificate of Approval;
  - b) Reference to Conservation Commission Order of Conditions;
  - c) Graves Engineering, Inc. review/report(s);
  - d) Revise/update landscaping plan sheet(s) as may be required; &
  - e) Other conditions noted herein.
16. Owner/Applicant shall coordinate Road Opening/Curb Cut Permits with the Department of Public Works –Highway Division (508-234-3581). Site Contactor shall work with the DEPARTMENT OF PUBLIC WORKS to ensure that water/sewer services are installed properly.
17. Owner/Applicant shall coordinate installation of the water service(s) with the Whitinsville Water Company (508-234-7358). Owner/Applicant shall coordinate installation of sewer service(s) with the Department of Public Works –Sewer Division (508-234-2154); materials to be used shall be sized and installed to the specifications of the Sewer Department.
18. Erosion control measures to prevent siltation into wetlands, neighboring properties and roadways during construction shall be implemented. The Erosion Control plan and documentation submitted shall be implemented and followed during construction. During construction, if these plans are found to be inadequate by the Planning Board or its designee, a new erosion control plan shall be submitted to the Board for review and approval. In the event erosion and sedimentation problems arise during construction, the Planning Board may require that all work cease until measures necessary to ensure prevention are implemented.
19. Prior to ISSUANCE OF BUILDING PERMIT, outstanding invoices, if any for services rendered by Graves Engineering, Inc shall be satisfied.
20. Prior to ISSUANCE OF A BUILDING PERMIT, the Applicant/Engineer shall submit the following to the Planning Board: five (5) complete prints of the endorsed Site Development Plan, two (2) fifty-percent (50%) reduced prints and one (1) electronic copy.

21. Prior to ISSUANCE OF A CERTIFICATE OF OCCUPANCY, all conditions of approval noted herein shall be satisfied. Project Engineer shall provide the Planning Board and BUILDING INSPECTOR with a letter describing status of site improvements. The Project Engineer shall provide the Planning Board written certification/verification that drainage system has been constructed as approved and working as designed. Said documentation shall be in the form of a letter signed/stamped by a Professional Engineer certifying and demonstrating that the drainage system has been constructed as approved and working as designed. Copy of same shall be provided to the Building Inspector, Department of Public Works and Conservation Commission.
22. In order to secure the completion of landscaping shown on the approved plan, the Owner/Applicant may post a PERFORMANCE BOND in an amount to be reasonably determined by the Planning Board. Such bond shall be posted with the Town Treasurer and shall be released upon certification by the Planning Board that all required landscaping improvements associated with this Certificate of Approval have been satisfied. In the event any landscaping does not survive the Owner/Applicant shall be responsible for its replacement; within 60-days of notice from the Planning Board, unless not feasible or practical due to weather conditions. Failure to comply with this requirement shall result in a violation of this Certificate of Approval.
23. A copy of this Certificate of Approval endorsed Site Development Plan and Conservation Commission Orders of Conditions, if any shall be maintained onsite during construction. The Planning Board and its designee(s) shall be permitted to access the project site for the duration of the project.
24. Changes to the site development either prior to or during construction shall be administered through the Planning Board in accordance with Section 173-49.1 H of the Zoning Bylaw. Any amendments to this CERTIFICATE OF APPROVAL shall require a written description of the proposed modifications submitted to the Planning Board for review/approval. A significant alteration deemed by the Planning Board shall require the filing of a new site plan review.
25. Violation of any condition(s) noted herein or failure to comply with this site plan development approval shall subject the Owner/Applicant to zoning enforcement action in accordance with the remedies set forth in M.G.L. c. 40A and as otherwise provided in the Northbridge bylaws.
26. Pursuant to Section 173-49.1 I (2) of the Northbridge Zoning Bylaw this site plan approval shall lapse in one (1) year, if a substantial use thereof has not commenced, except to good cause, which shall not include such time required to pursue or await the determination of an appeal.

**WAIVER:**

Based on its finding, the Planning Board WAIVED the Development Impact Assessment; Section 173-49.1 E (2) of the Northbridge Zoning By-Laws. As provided for in Section 173-49.1 E (3) of the Northbridge Zoning By-Law the Planning Board may waive any requirements if it believes that the requirement is not necessary based upon the size and scope of the project.





# Northbridge Public Schools

## Northbridge School Committee

87 Linwood Avenue, Whitinsville, Massachusetts 01588 (508) 234-8156 FAX (508) 234-8469

[www.nps.org](http://www.nps.org)

Michael LeBrasseur, Chairperson, HYPERLINK "mailto:mlebrasseur@nps.org" [mlebrasseur@nps.org](mailto:mlebrasseur@nps.org),  
Joseph Strazzulla, Vice-Chairperson, Michael Alden, Bethany Cammarano, Brian Paulhus

### Northbridge Public Schools School Committee Meeting Minutes Tuesday, April 23rd, 2019 7:00 PM Northbridge High School Media Center

I. Call to Order (7:00)

II. Attendance

Mike LeBrasseur	Present
Brian Paulhus	Present
Joseph Strazzulla	Present
Michael Alden	Present
Bethany Cammarano	Present

Also in attendance were Interim Superintendent Amy McKinstry, Director of Business and Finance Melissa Walker, and Student Representative Wesley Mawn.

III. Call to Order (7:05)

IV. Pledge of Allegiance

V. Statement of Mission

VI. Public Comment

Wendy Timmons (Northbridge resident/AFCSME Council 93) and David Nagle (AFCSME Council 93) spoke in regards to the AFCSME 93 union, solidarity, and requested a SC member to join negotiations.

VII. Student Representative's Report

Things are still going great for the students at NHS following April Vacation. A large group of our students returned from a school trip that took place in London, Paris, and Barcelona on Thursday. They were able to experience the local culture, cuisine, see landmarks, and meet locals. And yes, we were able to see the Cathedral of Notre Dame the day before the tragic fire. Despite fighting the weather, our Spring Sports Teams are doing well and today the baseball team beat Tantasqua. Tomorrow our Unified Track and

Field team will have their first ever meet and there will be a pep-rally at the end of the day to get students excited for this new team to become an integral part of Northbridge High School. This team was a collaborative effort between senior Meghan Coughlin, our principal Mr McCormick, and our Athletic Director, Mr Kozik. Pre- registration for this year's AP Tests began today and AP Testing starts on May 6th. The High School will be hosting their annual Evening of the Arts this Thursday night to show off the work of all of our talented students and their accomplishments with art and music. The art show will begin at 6pm and the Concert begins at 7pm. The Schools are also collecting books to send to schools in the Philippines that were affected by Typhoon Yolanda, all schools are accepting donations until May 3rd. On this Friday April 26<sup>th</sup>, the Best Buddies Club will be hosting a Yoga Night with a professional instructor at 6:30pm and the cost is \$15. The High School is also accepting applications for Career Academies for the 2019-2020 school year. For more information about any of these events check out nps.org. The seniors have 18 days of school left and then they will begin their finals and then senior week. May 1<sup>st</sup>, is the National College Decision deadline so for seniors choosing College or the Military as their next step, they are encouraged to wear merchandise from their college or branch to school that day. Students will continue working hard as the year begins to come to a close.

#### VIII. Consent Agenda

a. School Committee Meeting Minutes from April 9, 2019

b. Warrant 39-40s 4/4/19 \$402,714.50

A motion was made **by** Joseph Strazzulla to accept items from the consent agenda as presented. The motion was seconded by Brian Paulhus. The vote was taken by roll call vote and the following votes were recorded:

Mike LeBrasseur Yes

Brian Paulhus Yes

Joseph Strazzulla Yes

Michael Alden Yes

Bethany Cammarano Yes

5 members having voted in the affirmative

0 members having voted in the negative

The motion was accepted with a roll call vote of 5-0.

## IX. Recognition/Presentation

Amy McKinstry recognized NHS Science Academy Students Cassie Letendre and Amelia Sadlon for their work. Amy also recognized Patrick Rossi for his leadership. The students presented their project.

## X. Action Items:

## a. New elementary School Name

A motion was made by Joseph Strazzulla to approve the name of the New Elementary School- Northbridge Elementary School. The motion was seconded by Brian Paulhus. The vote was taken by roll call vote and the following votes were recorded:

Mike LeBrasseur	Yes	
Brian Paulhus	Yes	
Joseph Strazzulla		Yes
Michael Alden	No	
Bethany Cammarano	Yes	

4 members having voted in the affirmative

1 members having voted in the negative

The motion was accepted with a roll call vote of 4-1.

## b. ECC Job Description

A motion was made by Joseph Strazzulla to approve the ECC Job Description. The motion was seconded by Brian Paulhus. The vote was taken by roll call vote and the following votes were recorded:

Mike LeBrasseur	Yes	
Brian Paulhus	Yes	
Joseph Strazzulla	Yes	
Michael Alden	Yes	
Bethany Cammarano	Yes	

5 members having voted in the affirmative

0 members having voted in the negative

The motion was accepted with a roll call vote of 5-0.

## c. Last Day of School Proposed

A motion was made by Brian Paulhus to approve the last Day of School as June 13<sup>th</sup>, 2019. The motion was seconded by Bethany Cammarano. The vote was taken by roll call vote and the following votes were recorded:

Mike LeBrasseur	Yes	
Brian Paulhus	Yes	
Joseph Strazzulla		Yes
Michael Alden	Yes	
Bethany Cammarano	Yes	

5 members having voted in the affirmative

0 members having voted in the negative

The motion was accepted with a roll call vote of 5-0.

XI. Report of the Superintendent Screening Committee

Tracy Novak shared updated information regarding the Superintendent Search. Interviews will take place on May 6<sup>th</sup> and May 9<sup>th</sup> in a public setting. Site visits have been scheduled.

XII. Discussion:

a. SEPAC News and Updates

Sara Guerra and Eleni Braley shared updates and happenings for SEPAC.

b. Athletic Fields Update

Michael LeBrasseur stated that there is work going on in terms of how to address Lasell Fields in the upcoming fall season. This will also depend upon the vote on May 7<sup>th</sup>.

c. School Building Update

Michael LeBrasseur stated that Joe is at the Planning Board meeting for the school tonight.

d. SC Self Evaluation

Michael LeBrasseur shared and went over the results of the SC Self Evaluation with the committee.

XIII. School Committee Individual Comments

Michael Alden- Wanted to explain why he voted no for the school name. He likes the camaraderie of having all Northbridge Schools. However, he was stuck on the sacrifice of Corporal Dawson.

Bethany Cammarano- Wanted to recognize Mr. Rossi and his students for their great work, very impressive. Mike, thank you for putting together the evaluation.

Brian Paulhus- Thanked Mr. Rossi and the work the students did, it is great and I wish them luck. Brian thanked the chaperones from the MS and HS that attended the trip with the students. Without them the trip would not have taken place.

Michael LeBrasseur- Thanked the members of the Screening Committee. We still have some work to do! We meet again on May 14<sup>th</sup>! The town meeting warrant has our budget, a list of capital projects, and the Lasell Field Project.

XIII. Adjournment (7:55P.M.)

The motion was made by Michael Alden to adjourn the meeting at 7:55pm. The motion was seconded by Brian Paulhus. A vote was taken by roll call and the following votes were recorded:

Mike LeBrasseur Present

Brian Paulhus Present

Joseph Strazzulla Present

Michael Alden Present

Bethany Cammarano Present

5 members having voted in the affirmative

0 members having voted in the negative

The motion was accepted with a roll call vote of 5-0.

## ATTACHMENT 1

**Worksheet for Orders of Conditions issued by the Conservation Commission (NCC)**

**Applicant: Town of Northbridge**  
**Project #(s): 248-666**  
**Project: Balmer Elementary School**  
**Date: June 5, 2019**

Conditions marked with a “X” (☒) will be included in this order, in addition to those already stated in the Massachusetts Wetland Protection Act Form 5, for the subject project. Conditions not marked (☐) do not apply to this Order:

- ☒ N1. A copy of this Order of Conditions shall be on site at all times with the Project Engineer or authorized foreman/supervisor.
- ☒ N2. This Order of Conditions shall expire on **June 5, 2022**

**BEFORE CONSTRUCTION**

- ☒ N3. The district of jurisdiction for condition #9 (see WPA Form 5) is Worcester County. The requirements of WPA Form 5, condition #9 must be met before a building permit will be issued.
- ☒ N4. At least 7 days prior to the start of construction, the following materials shall be provided to the Conservation Commission:
  - Copy of the construction drawings and/or plans;
  - A written narrative (prepared by the design engineer or other qualified individual) outlining any deviations between the construction drawings/plans and documents referenced in this Order that pertain to work in buffer zone, erosion/sedimentation control and drainage/stormwater control and treatment;
  - Copy of the final Stormwater Pollution Prevention Plan (SWPPP) prepared to comply with the USEPA NPDES Construction General Permit;
  - Construction sequencing/phasing plan for the relocation/replacement of the existing 36 inch culvert that provides details on flow maintenance/bypass measures that will be employed during the work period;
  - Contact information (including cell phone numbers) for the project foreman and the individuals specified in Condition N5 below.

If the construction drawings/plans appreciably differ from the documents referenced in this Order, the applicant may be required to request an Amended Order of Conditions or file a new Notice of Intent with the NCC.

- ☒ N5. A Professional Engineer, Certified Professional Erosion and Sediment Control Specialist, or similarly qualified individual shall be designated as the Erosion Control Monitor to oversee any emergency and/or regular inspection and replacement of erosion or sediment control devices. This person shall be given authority to stop construction for erosion control purposes. The erosion control monitor will be required to inspect all such devices and oversee cleaning and the proper deposition of waste products.
- ☒ N6A. Erosion control measures shall be installed according to approved plans. Placement shall be directed on-site by the Erosion Control Monitor in accordance with the design plans. Controls must be properly installed for maximum effectiveness and be

of sufficient porosity to pass detained water without allowing suspended sediments to pass through.

- ☒ N6B. PRIOR TO ANY SITE WORK BEING DONE in the BUFFER ZONE, including the clearing of vegetation, trees or the disturbance of soil, all erosion measures MUST be completely installed and have been inspected by the NCC and/or its Agent. Contact the NCC, verbally or in writing to allow the NCC ample time to conduct said inspection.
- ☒ N7. An adequate supply of erosion control materials shall be kept on site at all times for emergency and routine replacement and repair.

#### DURING CONSTRUCTION

- ☒ N8. A stabilized entrance shall be installed at the construction access to the site in accordance with the detail included with the plans referenced in this Order. The stabilized entrance shall be maintained/refreshed as needed to maintain effectiveness.
- ☒ N9. All buffer zones that will, according to the approved plans, remain undisturbed shall not be crossed or entered with equipment or any vehicles at any time during construction. If not marked by sedimentation controls, then these areas will be prominently, visibly marked every twenty (20) feet or encircled by construction fencing.
- ☒ N10. Permanent alterations of wetland resource areas is expressly prohibited. Temporary disturbances to resource areas are also prohibited unless they are necessary to rectify unforeseen issues that arise during construction and only if they have been reviewed/authorized by the NCC.
- ☒ N11. All materials and equipment shall be stored in a manner and location that will minimize the compacting of soils and the concentration of runoff. Vehicle refueling shall be conducted outside of the buffer zone. If a spill occurs, the Applicant shall retain a Licensed Site Professional to oversee cleanup in accordance with the provisions of local, state and federal regulations.
- ☒ N12. No soil, topsoil or other material may be stockpiled in the 100 foot buffer zone. All stockpiles will be stabilized and/or encircled with erosion control barriers to prevent erosion and runoff into the resource areas.
- ☒ N13. All waste products, grubbed stumps, slash, construction materials etc. shall be removed from the site to a licensed facility and shall not be in any manner incorporated into the project site with the exception of the reduction of stumps and slash to mulch.
- ☒ N14. All erosion control devices shall be regularly inspected and cleaned and/or replaced as needed, during construction in accordance with provisions specified in the SWPPP. The devices shall remain in place until all areas that may impact the resource areas are permanently stabilized. Erosion controls depicted on the approved plans are the minimum measures that must be utilized to protect wetland resource areas during construction. If deemed necessary, it is the responsibility of the applicant (in consultation with the Erosion Control Monitor) to devise, install and maintain additional controls to protect wetland resource areas and/or undeveloped portions of the buffer zone.
- ☒ N15. Temporarily altered and/or restored portions of the buffer zone shall be seeded in accordance with the specifications included on the plans referenced in this Order (see Sheet C1.00 – Wetland Resources Work Plan).
- ☒ N16. It shall be the responsibility of the applicant to repair, restore and/or replicate areas damaged as a direct result of this project to any wetland resource area or undeveloped



portions of the buffer zone. Sedimentation or erosion into these areas shall be considered damage. The NCC shall be contacted within 48 hours of incidents where damage has occurred in resource areas or undeveloped portions of the buffer zone. A plan to repair the damage and restore the affected areas shall be submitted for review/authorization at the next regularly scheduled meeting of the NCC. Failure to notify the NCC of damage and/or develop/implement restoration measures may result in the issuance of fines or other enforcement actions.

- N17. The NCC reserves the right to impose additional conditions during the project if deemed necessary to protect resource areas and interests as defined in MGL c131, s40 (310. CMR 10.00).
- N18. Members of the NCC and its Agent have the right to enter the property to assess compliance with this Order of Conditions throughout the construction period and until a final Certificate of Compliance has been issued.

#### AFTER CONSTRUCTION

- N19. All disturbed areas shall be permanently stabilized with healthy, vegetative ground cover of no less than 75% coverage within thirty (30) days of project completion. If conditions prohibit germination/growth, the seeded areas shall be stabilized with mulch or other suitable material to minimize erosion until the following growing season.
- N20. Within thirty (30) days of completion of this project, a Professional Engineer shall at the request of the applicant submit to the NCC a written statement, stamped and signed, which certifies that the project has been completed according to the approved plans and this Order. The applicant shall also request a Certificate of Compliance from the NCC for this Order of Conditions.
- N22. The Request for a Certificate of Compliance shall include an “as-built” plan (prepared by a Professional Land Surveyor) depicting portions of the project located within wetland resources and the buffer zone. The plan shall also depict all components of the stormwater management system.
- N23. Following completion of construction and prior to issuance of a Full Certificate of Compliance, a plan detailing maintenance procedures (particularly detailing irrigation, fertilization, pest/weed control measures) for the athletic fields and landscaped areas shall be submitted to the NCC for review and approval. Once approved, field/landscape maintenance shall proceed as outlined in the plan.
- N24. Components of the stormwater management/drainage system for the project shall be inspected/maintained in accordance with the Operation and Maintenance Plan (Attachment E) of the Stormwater Report referenced in this Order. The inlet to 36-inch culvert that extends beneath the site shall be inspected and cleaned (as needed) at least once annually and/or after storm events that produce more than 4 inches of rainfall over the course of 24 hours.
- N25. Conditions N23 and N24 shall remain in perpetuity and shall not be released with the issuance of a Certificate of Compliance.



## MEETING MINUTES CD #1

DATE OF MEETING: April 10, 2019

PROJECT: W. EDWARD BALMER ELEMENTARY SCHOOL

PROJECT NO.: 17-0759

SUBJECT: WORKING GROUP (WG) MEETING – Technology Design Meeting

ATTENDING: Tom Hengelsberg - DWA Greg Palmer – Director of IT, NPS  
Amy McKinstry – Acting Superintendent  
Scott Goodrich – EdVance Karlene Ross – Principal, Balmer ES  
Greg Rosenthal - Dir of Pupil Personnel Svcs  
Richard Maglione – Dir Facilities & Operations

ITEM	MINUTES	ACTION/ WHO	STATUS/ DATE
01-1	<p>The Network and Infrastructure: Discussions were had on the following, for the most part led by Greg.</p> <ol style="list-style-type: none"> <li>1. NPS IT has plans for the new network</li> <li>2. How does the new Balmer fit into those plans?</li> <li>3. Infrastructure owned in the bid docs by Electrical Contractor (EC), with a sub-sub for tech. We want qualified subs, managed by EC.</li> <li>4. Non-proprietary systems: clocks, speakers, etc. There are not currently district standards.</li> <li>5. Discussion of new building design - 3 IDF data closets, 1 MDF which is generally central to building, on Level 2.</li> <li>6. 5400R switches, 40+ to each closet, Basis of Design</li> <li>7. Fast network: wireless speed will be the determining factor. Aerohive will be pushed to the limits</li> <li>8. Color of the cable: data (blue), voice (green), WAPS (white), surveillance video (yellow)</li> <li>9. Cable will be 100% patched and labeled – no labeling scheme now, prefer by room in new building, by room, number, port #</li> <li>10. All Cat 6a cabling</li> <li>11. Now: Two entry points, 500 mb/sec up and down</li> <li>12. Concept: Balmer will be a new entry point; keep MS connected to HS, then out</li> <li>13. New building, new access</li> <li>14. Addition Networks owns the firewall</li> <li>15. Move pipe to new building, 500 or bigger</li> <li>16. Servers: power entire district, build network in parallel, new switch HP 8500? All assets cut over in the summer,</li> <li>17. Edge switches, core for traffic flow, no file server, in Google now, shared drive off server.</li> <li>18. New domain controller at HS, new B/u controller in Balmer?</li> <li>19. One server at Balmer, replicate second from HS, need to keep Balmer self-sufficient, build resiliency</li> <li>20. Buy a fire wall appliance? Yes, good Sonic Wall, use with VPN, Project reimbursable.</li> </ol>	Edvance to take note and incorporate requirements/ parameters into design.	Open
01-2	<p>Wireless infrastructure: District currently uses Aerohive across all buildings. Greg stated, "It's not great, but it's also not bad." Whatever we are running in the district is what we are going to run at the new Balmer. We will have parity across the district.</p>	Edvance to take note and incorporate requirements/	Closed

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	<ol style="list-style-type: none"> <li>1. Discussion of specifications, model numbers, etc.</li> <li>2. Purchasing new wireless gear for two schools that will not be in existence in two years.</li> <li>3. New Aerohive, one in each space, two in library</li> </ol>	parameters into design.	
01-3	<p>Lit fiber and current connectivity status between the buildings and out to the cloud:</p> <ol style="list-style-type: none"> <li>1. We currently have two connection points out to the internet, at the MS and HS. We may move the MS one over to Balmer. Discuss.</li> <li>2. Details, specifications, etc.</li> </ol>	Edvance to take note and incorporate requirements/ parameters into design.	Open
01-4	<p>Classrooms Technology:</p> <ol style="list-style-type: none"> <li>1. Teacher's computers – 85 teacher chromebooks + 100 Dell core i5 i7 optiplex desktop in every CR, admin spaces – wherever there is a projection screen – assign to teacher for the year, goes back &amp; forth to home, portable</li> <li>2. Chromebooks for students – every grade level, 4 carts per grade x 600. Each cart has 30 CBs. + 2 CB carts in library + resource Room programs. <b>HP or Acer machines, 11.6" or 14"</b> – Scott noted pricing will be for 14". <b>Google chrome license, + service</b> –need proposal. <b>May use 11.6" for small kids, 14" for bigger kids. Pay kids to do installs and maintenance over the summer.</b> Add CBs to Maker Space. Preferred Vendor: Hubtech – on state contracts list.</li> <li>3. iPads for PK &amp; K: 84 12x 7 - see numbers attached</li> <li>4. Printers – (4) large-duty networked printer/copier/scanners in new building. (1) in office, (1) in library, (1) each in Student Services Suite (SSS) Level 2 and SSS Level 3.</li> <li>5. 3-D printers – (2) Maker-bot 3-d printers + laser etching machine for wood</li> <li>6. Cafeteria Point of Sale system – locked-in to vendor – Greg will supply name.</li> <li>7. Visitor Management system – need a badge printing system – Scott pointed out this is fine if you have a person who can manage it. It may become too much for office personnel. Continue discussion.</li> </ol>	<p>Edvance to take note and incorporate requirements/ parameters into design.</p> <p>Greg to supply name of Kitchen POS vendor</p> <p>Continue discussion of Visitor Management system.</p>	Open
01-5	<p>Projection Systems:</p> <p>Greg is moving away from projectors in classrooms, moving toward touch monitors, interactive, remote keyboard and mouse. There was a cost comparison discussion.</p> <ol style="list-style-type: none"> <li>1. Scott: visual intelligibility is an issue at this early stage – size is a critical issue. <b>Projector, 100" on a 5' high board</b> – cannot beat that with flat panel.</li> <li>2. Projectors – no bulb. 25,000 hour 20 year life cycle!</li> <li>3. Flat panel may give you five years? What happens at 5 years? <b>No good data yet. Jury still out.....</b>could do some spaces but not all?</li> <li>4. Full price of projector - \$3,100 plus cabling ~\$5K per room. Flat panels are around the same price. Projectors will have a less expensive replacement cycle – new are going in direction of interactive.</li> <li>5. Scott suggested setting up a test projector in a classroom at Balmer.</li> </ol>	<p>Team to continue discussion, no firm decision made at this time.</p> <p>Scott will coordinate a test projector in a room at Balmer.</p>	Open.
01-6	<p>Phone System:</p> <ol style="list-style-type: none"> <li>1. New District phone system is in place as of January 2019, which will be carried over to the new Balmer so there is phone system parity across all the schools in the district.</li> <li>2. New Phone system: VIA handsets, hybrid system, leveraging cat 5 + copper, non-admin phones in Balmer and NES, want to bring it over? Yes.</li> </ol>	<p>Edvance to incorporate new phone system parameters into Balmer design.</p> <p>Edvance will inventory "old"</p>	Open

	<ol style="list-style-type: none"> <li>3. Teachers use phones less, handset is used to communicate to office, outgoing calls.</li> <li>4. Ordinary handsets in CRs, new phones will go to new building, supplement with new sets in new school.</li> <li>5. One appliance in Balmer, shared with NES, may need upgrade to handle 2x phones.</li> <li>6. Scott – do not put in construction budget, work with existing, preferred vendor. On state bid list, under \$50K</li> <li>7. Distributed Communication system will interface with any phone system, need interface cards.</li> <li>8. Want one stop shop, no issues with Title Communications (Vendor-new as of Feb 2019, N. Andover MA)</li> <li>9. Manage contract completely separate, Scott will provide new school inventory, match up with existing (will be 2.5 YO) items.</li> </ol>	phones and specify handsets for any rooms missing a phone in new building.	
01-7	<p>Bells and clocks:</p> <ol style="list-style-type: none"> <li>1. Currently using Bell Commander software for bells &amp; clocks</li> <li>2. Karlene pointed out they currently do not use bells. Scott replied the devices have the capability, you can turn it off, but makes sense to include in case you want it in the future.</li> <li>3. Display type – discussion of analog clock face versus digital</li> <li>4. Hours, minutes, (no seconds!)</li> <li>5. Details, specifications, etc. to be worked out</li> <li>6. Greg stated they want system unified with cell phone time, that supplies signal to remote clocks</li> <li>7. Digital is preferred for younger kids – table decision and bring in other key WG members not in attendance.</li> </ol>	Poll other educators and administrators as to which interface is preferred: analog or digital	Open
01-8	<p>Building Access Control Systems (Methods for entering a building):</p> <ol style="list-style-type: none"> <li>1. New proximity readers are being installed this April in each of the 4 schools. That system will also need to move from the current Balmer and NES, and be installed in the new Balmer.</li> <li>2. Credential type – proximity cards on lanyard.</li> <li>3. The devices will have management features, data logging</li> <li>4. Lantel is vendor. Funding through Safe Schools.</li> <li>5. Prox card readers being installed (Greg to supply the manufacturer)</li> <li>6. Contract under \$50K, three quotes, Johnson, Centronix were other bidders</li> <li>7. Greg and Scott discussed moving AI phones move to new building. Scott noted we <b>can't move the AI Phone out of the construction project</b> as they are tied in with card readers, security – all related to EC scope. Project to provide new AI phones for the new building and pull the (newish) old Balmer AI phones as spares or use in other buildings where they have not been deployed.</li> <li>8. Scott counseled that we should write a proprietary contract for preferred manufacturer in the new building. Make proprietary the card readers and AI phones, as well as card printer for credential badges. <b>We can't control who the sub-sub</b> will be to install it.</li> <li>9. Scott: Vendor service contract will be for 1 year, want to turn over to District vendor to manage &amp; service.</li> <li>10. Greg will send Lantel contract to Scott to include in bid docs.</li> </ol>	<p>Edvance to include this family of products as proprietary in specifications.</p> <p>Greg will send Lantel contract to Scott to include in bid docs.</p>	Open
01-9	<p>Video Surveillance:</p> <ol style="list-style-type: none"> <li>1. Greg stated there is money to replace Genetech security software</li> <li>2. Current access not ideal; want access from phone, laptop</li> <li>3. Want police command center capability – from truck</li> <li>4. This spring, replacing Genetech with new system</li> <li>5. Replace old system with new cameras, AI-phones in existing Balmer,</li> </ol>	Discussion to continue about system components and specifications.	Open.

	<p>which can be salvaged and moved</p> <ol style="list-style-type: none"> <li>6. New software integrated and moves with system to new Balmer</li> <li>7. Powered all off one server, feed cameras using network</li> <li>8. Landtel, Johnson Controls, Ochre are bidders on current project</li> <li>9. How many cameras? 76 cameras in Balmer &amp; NES. 70 cameras in current budget for new building.</li> <li>10. Video Storage – Edvance typically specifies a 30-day holding capacity</li> <li>11. Software handles the storage – cameras all feed to a central computer.</li> <li>12. Needs to be scalable, able to add on capacity</li> <li>13. Vendor will own providing all cameras, connection, testing, incorporation into existing system</li> <li>14. Scott: Balmer could be designed and set up to control the whole district. Build a great hub, bidder will connect cameras from other buildings.</li> <li>15. Pick the software we want now, put it in the existing schools now. Balmer will use that software when it goes on line.</li> <li>16. Discussion ensued about centralized versus dispersed systems</li> <li>17. Schedule – will have answers in a couple weeks.</li> </ol>	Edvance to incorporate what has been discussed so far in pricing documents.	
01-10	<p>Intrusion Detection:</p> <ol style="list-style-type: none"> <li>1. Simplex alarm system now. Johnson Controls vendor?</li> <li>2. Richard had done programming – Police get notified via a dialer</li> <li>3. Panic buttons in various places, typically main office</li> <li>4. Karlene does not use the current panic button – a lot of false alarms</li> <li>5. Panel – mfr. by Simplex? Need same manufacturer. Richard to forward spec docs.</li> <li>6. Scott will write new design around that equipment.</li> <li>7. Panels are Honeywell, still functional</li> <li>8. Scott: new project, level 1 panel manuf. No control over bidding unless District names the system proprietary.</li> <li>9. Motions sensors in every ground floor room with window</li> <li>10. All doors have door contacts</li> <li>11. Alarm arm/disarm panels in various locations around school at exterior doors.</li> <li>12. <b>Prox readers act as key, don't need as many exterior core keys</b></li> <li>13. New master exterior key system</li> <li>14. Alarms will communicate with fire/ police</li> </ol>	<p>Richard to forward spec docs for Security System panel manufacturer.</p> <p>Technology WG must decide if this system is to be proprietary.</p>	Open
01-11	<p>Karlene suggested looking for an app for teacher communication during emergencies, a silent alternative to walkie-talkies. Greg noted this would be a software solution, not part of the project.</p>		Closed.
01-12	<p>Sound Systems:</p> <ol style="list-style-type: none"> <li>1. As an example, in the Middle School: system is operated off an iPad. This would be similar in the new Balmer for Café and Gym systems.</li> <li>2. Sound system components to be located in lockable rack on stage</li> <li>3. Speech reinforcement system – yes, included in all classrooms and ELAs</li> <li>4. Karlene brought up students with cochlear implants: teachers will have to wear the belt pack for assistive listening devices. For ADA/MAAB compliance, in all large public meeting areas, we will need transmitters &amp; receivers. This is a function of seating capacity – will work as part of space sound system. In classrooms there is no requirement for listening assistance – this is more for non-hearing-impaired students, electronics allows appliances to connect to hearing impaired student – connect up to two transmitters at a time. Teacher needs to turn on mic/off – what about other children? They cannot hear. Need to provide wireless share mic. Scott stated there is not really a better way.</li> <li>5. ELAs will be the same equipment.</li> </ol>	Edvance to incorporate what has been discussed so far in pricing documents. Discussion to continue.	
01-13	<p>Electronic signage:</p>	Signage to be	Open.

BALMER ES – WG MTG CD#1  
 April 10, 2019  
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	<ol style="list-style-type: none"> <li>1. Power &amp; data supplied underground thru conduit from the building</li> <li>2. Very simple spec, function. No animation, flashing, etc. Simple white LED lettering on black background.</li> <li>3. Software – on local computer.</li> <li>4. Signage to be discussed further, cost and appropriateness vetted. Possible Zoning issue.</li> </ol>	discussed with larger SBC.	

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

Sincerely,

DORE & WHITTIER ARCHITECTS, INC.  
 Architects ■ Project Managers

TOM HENGELSBERG, AIA, NCARB, LEED AP, MCPPO  
 PROJECT MANAGER

c: Attendees  
 File



## MEETING MINUTES CD #2

DATE OF MEETING: April 10, 2019

PROJECT: W. EDWARD BALMER ELEMENTARY SCHOOL

PROJECT NO.: 17-0759

SUBJECT: WORKING GROUP (WG) MEETING – Mechanical Controls Meeting

ATTENDING: Tom Hengelsberg - DWA      Richard Maglione – Director of Facilities

Matt DiSalvo – GGD –  
mechanical engineer

ITEM	MINUTES	ACTION/ WHO	STATUS/ DATE
02-1	The purpose of this meeting was to discuss mechanical controls systems and their specification and to decide if the District wishes to specify a proprietary system.		Closed
02-2	The specification will be to provide a separate computer that will house the controls software, to be located in the Maintenance office on Level 2 of the new building. The software will be remotely accessible through a smart-phone app. There was discussion about examples where remote access will be needed, such as programming the gym for an after-hours event remotely.	GGD to incorporate	Closed
02-3	Matt asked if there is a desire or plan for town-wide BMS system. Richard said not to his knowledge, but there is a desire to develop a standard for the School District, but knows this will take time. Richard stated he would like the system to have an open protocol. Matt stated the controls are specified with BACNET open protocol. After more discussion it was agreed that the specification for Balmer will remain an open spec with no proprietary units or controls, which is how the specification is currently written. Richard does not have particular favorites at this time, and wants the competition for pricing. This system may become the standard for the District if it proves itself. This will also allow multiple vendors to service the systems.	GGD to incorporate	Closed
02-4	Controllability in Classrooms and Office spaces: thermostats will be pre-programmed, and will have a manual override of +2 or -2 degrees. There was more discussion of functionality features, and automated logic.	GGD to incorporate	Closed
02-5	High School refit: the high school is getting new controls software upgrade in the upcoming summer of 2019, but this is not necessarily the system that Richard wants to base the new Balmer on. HS is replacing (8) Java Auto Control Engines (JACE units), which will be viewable remotely. The HS will be bid out, and will be open protocol with JACE units.		Closed
02-6	Matt asked if there are any plans for a central BMS Ops Center for the District. Richard said, again, not to his knowledge.		Closed
02-7	Service Contract: Richard stated that a contract will be desired for Balmer. Matt stated the specs typically include 40 hours by ATC contractor to come back, reprogram and adjust as necessary. There is a 1-year warranty to work out any bugs (which there typically are). There is a Cx agent on the project, part of whose	GGD to incorporate warranty language in	Closed

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	job it is to try and minimize any post-occupancy issues. The service contract is not included in the project spec and is typically procured by the Owner just prior to the one-year mark of the system.	specs	
02-8	Richard had to leave, but Tom and Matt continued to discuss sound control in the mechanical units. Matt stated there will be three options for sound control: ductwork options; unit exhaust sound dampers; and integral, curb-mounted sound shields. Tom urged Matt to make sure units are specified as quiet as possible without getting into proprietary conditions.	GGD to incorporate sound control and dialog with Acentech once they have completed acoustical review.	Open
02-9	Tom requested that GGD show service clearances on the mechanical drawings for all units. D&W is trying to reduce the size of RTU roof screens to save money, and having clearances noted will be a huge help.	GGD to incorporate	Open

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

Sincerely,

DORE & WHITTIER ARCHITECTS, INC.  
 Architects ■ Project Managers

TOM HENGELSBERG, AIA, NCARB, LEED AP, MCPPO  
 PROJECT MANAGER

c: Attendees  
 File



	<ul style="list-style-type: none"> <li>• Scott: technology is changing, and it will be difficult to specify the install of 2.5 YO used units in the new building.</li> <li>• Greg: the WAPS were free (by grant) and will be salvaged from Balmer and used as backup in MS and HS.</li> <li>• Scott will build the spec around new AeroHives in the new Balmer.</li> </ul>		
01-3	<p>Lit fiber and current connectivity status between the buildings and out to the cloud:</p> <ol style="list-style-type: none"> <li>1. We currently have two connection points out to the internet, at the MS and HS. We may move the MS one over to Balmer. Discuss.</li> <li>2. Details, specifications, etc.</li> </ol> <p>4/10/19: Discussion covered in 01-1 above.</p>	Edvance to take note and incorporate requirements/parameters into design.	Closed
01-4	<p>Classrooms Technology:</p> <ul style="list-style-type: none"> <li>• Teacher's computers – 85 teacher chromebooks + 100 Dell core i5 i7 optiplex desktop in every CR, admin spaces – wherever there is a projection screen – assign to teacher for the year, goes back &amp; forth to home, portable</li> <li>• Chromebooks for students – every grade level, 4 carts per grade x 600. Each cart has 30 CBs. + 2 CB carts in library + resource Room programs. <b>HP or Acer machines, 11.6" or 14"</b> – Scott noted pricing will be for 14". Google chrome license, + service – need proposal. May use 11.6" for small kids, 14" for bigger kids. Pay kids to do installs and maintenance over the summer. Add CBs to Maker Space. Preferred Vendor: Hubtech – on state contracts list.</li> </ul> <p>4/10/19: Discussion continued:</p> <ul style="list-style-type: none"> <li>• Chromebooks - <b>11.6" or 14"</b>? Greg asked about grade cut-off?</li> <li>• Currently Grades 2-3-4 are using <b>14"</b>.</li> <li>• Middle School is using <b>all 11.6"</b></li> <li>• Four new carts recently purchased are <b>all 11.6"</b> [for which grades?]</li> <li>• <b>HS replacing or adding 11.6"</b>. For the older kids they are nice, small and portable.</li> <li>• Scott will base first pass using <b>14"</b> as default.</li> <li>• <b>Greg: a few visually impaired will need 14"</b></li> <li>• Scott will come in with program and budget to start equipment procurement.</li> <li>• One Chromebook cart will be purchased per teaching pair, which aligns well with the floor plan.</li> <li>• Charging storage will be provided in the "cart garage" in casework – included in project already.</li> <li>• Scott will base standard on what is purchased ~\$1100 – Greg will send most recent carts being purchased, on which Scott will base spec.</li> </ul> <ul style="list-style-type: none"> <li>• iPads for PK &amp; K: 84 12x 7 - see numbers attached</li> <li>• Printers – (4) large-duty networked printer/copier/scanners in new building. (1) in office, (1) in library, (1) each in Student Services Suite (SSS) Level 2 and (SSS) Level 3.</li> </ul> <p>4/10/19: Discussion continued:</p> <ul style="list-style-type: none"> <li>• Large Copiers are leased – Melissa stated she does not intend to purchase them in the new building either.</li> <li>• Scott will find out lease term of existing copiers and work that info into procurement for new building.</li> </ul> <ul style="list-style-type: none"> <li>• 3-D printers – (2) Maker-bot 3-d printers + laser etching machine for wood</li> </ul> <p>4/10/19: Discussion continued:</p> <ul style="list-style-type: none"> <li>• 3-D printing is coming under scrutiny for outgassing and particulate matter – ventilation should be employed.</li> </ul>	<p>Edvance to take note and incorporate requirements/parameters into design.</p> <p>Greg to supply name of Kitchen POS vendor</p> <p>Greg to send specs of most recent carts being purchased to Edvance.</p> <p>Edvance to get info on lease term of existing copiers.</p> <p>TH to alert GGD to provide direct</p>	Open

	<ul style="list-style-type: none"> <li>• Cafeteria Point of Sale system – locked-in to vendor – Greg will supply name.</li> <li>• Visitor Management system – need a badge printing system – Scott pointed out this is fine if you have a person who can manage it. It may become too much for office personnel. Continue discussion.</li> </ul> <p>4/10/19: Discussion continued:</p> <ul style="list-style-type: none"> <li>• Raptor system discussed as possible BOD</li> <li>• Greg: Who runs it?? That staff person must be 100% available at that moment in time. Can the technology be staffed?</li> <li>• System: Computer with scanner, and small printer.</li> <li>• How it works: Person at desk takes driver license, scans license against some databases, such as child abuse records, can load case management situations into the system, restraining order, sex offender, etc. Printer prints pass to stick on clothing. Strangers who do not have badge are suspect.</li> <li>• Greg is not opposed to doing it, just need to look into details... Must have discussion about this with admin, is it necessary?</li> <li>• Scott will leave the system out for now</li> </ul>	<p>exhaust ventilation in Maker Space.</p> <p>Continue discussion of Visitor Management system.</p>	
01-5	<p>Projection Systems:          Greg is moving away from projectors in classrooms, moving toward touch monitors, interactive, remote keyboard and mouse. There was a cost comparison discussion.          [see MM CD #1 for previous content]</p> <p>5. Scott suggested setting up a test projector in a classroom at Balmer.</p> <p>4/10/19: Discussion continued:</p> <ul style="list-style-type: none"> <li>• Scott: basis of design is ultrashort throw projectors mounted on the wall. They have come down in price - \$3500 fully installed.</li> <li>• If we decide to go with touchscreen, EC will install double gang box. Cable will be installed by projector vendor as part of that system.</li> <li>• Scott: Summer 2019 is time-line to make decision between touchscreen and projector. He noted the <b>trend is "both"</b> – if you can afford both.</li> <li>• Greg: <b>replacement cycle is the issue. "Both" will last longer. 65"</b> touchscreen on a stand is the sweet spot of size vs. price, can be moved anywhere in the room. Combined with fixed projector on teaching wall, creates two teaching stations.</li> <li>• Greg threw out the idea of ordering two of the touch screens for each school, train teachers, as a pilot project.</li> <li>• Clear Touch, Newline are brands.</li> <li>• Melissa expressed the need to support the technology once it is implemented, and expressed deep concerns about the funding system and replacement cycle</li> <li>• It was discussed to provide one or two touchscreens in ELAs shared between grade level CRs.</li> </ul>	<p>Team to continue discussion, no firm decision made at this time.</p> <p>Scott will coordinate a test projector in a room at Balmer.</p> <p>Greg to look into touch screen pilot project.</p>	Open.
01-6	<p>Phone System:</p> <ol style="list-style-type: none"> <li>1. New District phone system is in place as of January 2019, which will be carried over to the new Balmer so there is phone system parity across all the schools in the district.</li> <li>2. New Phone system: VIA handsets, hybrid system, leveraging cat 5 + copper, non-admin phones in Balmer and NES, want to bring it over? Yes.</li> </ol> <p>[see MM CD #1 for previous content]</p> <ol style="list-style-type: none"> <li>9. Manage contract completely separate, Scott will provide new school inventory, match up with existing (will be 2.5 YO) items.</li> </ol>	<p>Edvance to incorporate new phone system parameters into Balmer design.</p> <p>Edvance will inventory "old" phones and specify handsets for</p>	Closed

	<p>4/10/19: Discussion continued:</p> <ul style="list-style-type: none"> <li>• New phone service with Title (provider) - new copper or fiber.</li> <li>• Verizon has some basic lines for security, elevator, emergency, etc.</li> <li>• Companies need to be contacted by the Owner, who will need number of lines. 21-25 trunk lines across the district, to HS, feeding them all from HS.</li> <li>• One VM server <b>at HS</b>; feeding out from there.</li> <li>• Check with Verizon on how to handle elevator, security, fire, all dedicated lines.</li> <li>• Service lines – pick up existing equipment from Balmer.</li> <li>• Scott will be pulling the phone spec from the CD60 pricing set.</li> </ul>	any rooms missing a phone in new building.	
01-7	<p>Bells and Clocks:          [see MM CD #1 for previous content]          3. Display type – discussion of analog clock face versus digital          [see MM CD #1 for previous content]          7. Digital is preferred for younger kids – table decision and bring in other key WG members not in attendance.          4/10/19: No new discussion, to be continued.</p>	Poll other educators and administrators as to which interface is preferred: analog or digital	Open
01-8	<p>Building Access Control Systems (Methods for entering a building):          [see MM CD #1 for previous content]          5. Prox card readers being installed (Greg to supply the manufacturer)          [see MM CD #1 for previous content]          10. Greg will send Lantel contract to Scott to include in bid docs.          4/10/19: Discussion continued:</p> <ul style="list-style-type: none"> <li>• Card Readers: Lantel to provide same Avigilon readers.</li> <li>• Scott advises to make the system proprietary – same system.</li> <li>• Moving away from Signet (Genetech), moving towards Johnson Controls (Exact Vision) or Lantel (Avigilon) proprietary system.</li> <li>• Lantel providing card readers. Project happening in June 2019.</li> <li>• Access control Engine – web based Pax Appliance. Sales rep is Mel at Lantel – need actual engine.</li> <li>• Scott wants to build into spec. New NE Rep Scott Sebastian can call Greg.</li> <li>• Scott will need an answer: Greg committed to select the system by June 2019.</li> </ul>	<p>Edvance to include this family of products as proprietary in specifications.</p> <p>Greg will send Lantel contract to Scott to include in bid docs.</p> <p>Greg committed to select system by June 2019.</p>	Open
01-9	<p>Video Surveillance:          [see MM CD #1 for previous content]          4/10/19: Security System – will not re-use old components. New systems in two years will be backup units.</p>	<p>Discussion to continue about system components and specifications. Edvance to incorporate what has been discussed so far in pricing documents.</p>	Open.
01-10	<p>Intrusion Detection:          [see MM CD #1 for previous content]          4/10/19: Security System – will not re-use old components. New systems in two years will be backup units.</p>	<p>Richard to forward spec docs for Security System panel manufacturer.</p> <p>Technology</p>	Open

		WG must decide if this system is to be proprietary.	
01-12	<p>Sound Systems:</p> <ol style="list-style-type: none"> <li>1. As an example, in the Middle School: system is operated off an iPad. This would be similar in the new Balmer for Café and Gym systems.</li> <li>2. Sound system components to be located in lockable rack on stage</li> <li>3. Speech reinforcement system – yes, included in all classrooms and ELAs</li> <li>4. Karlene brought up students with cochlear implants: teachers will have to wear the belt pack for assistive listening devices. For ADA/MAAB compliance, in all large public meeting areas, we will need transmitters &amp; receivers. This is a function of seating capacity – will work as part of space sound system. In classrooms there is no requirement for listening assistance – this is more for non-hearing-impaired students, electronics allows appliances to connect to hearing impaired student – connect up to two transmitters at a time. Teacher needs to turn on mic/off – what about other children? They cannot hear. Need to provide wireless share mic. Scott stated there is not really a better way.</li> <li>5. ELAs will be the same equipment.</li> </ol> <p>4/10/19: No new discussion, to be continued.</p>	Edvance to incorporate what has been discussed so far in pricing documents. Discussion to continue.	Open
01-13	<p>Electronic signage:</p> <ol style="list-style-type: none"> <li>1. Power &amp; data supplied underground thru conduit from the building</li> <li>2. Very simple spec, function. No animation, flashing, etc. Simple white LED lettering on black background.</li> <li>3. Software – on local computer.</li> <li>4. Signage to be discussed further, cost and appropriateness vetted. Possible Zoning issue.</li> </ol> <p>4/10/19: No new discussion, to be continued.</p>	Signage to be discussed with larger SBC.	Open.
	NEW BUSINESS (4/10/19):		
03-01	<p>TV, CATV:</p> <ol style="list-style-type: none"> <li>1. Greg to keep on radar: phone, internet, cable TV</li> <li>2. TH pointed out need to have cable for CCTV broadcast, involve CATV for live stream specifications to feed out of the building.</li> <li>3. CATV Connection could occur at HS, feed Balmer to HS. Encode at Balmer, send signal to HS, decode at HS, sent to CATV.</li> <li>4. Greg to reach out to CATV and get conversation started.</li> <li>5. Run coaxial into building, terminate or not. If cable contract forces that to be done, take advantage of it. If its not part of the contract could be \$15K, is it worth it?</li> </ol>	Greg to reach out to CATV	Open
03-02	<p>Review Technology Outlet Plans:</p> <ol style="list-style-type: none"> <li>1. Scott brought half size sets of 60% pricing set of technology, which he reviewed with the group.</li> <li>2. Phone near but NOT next to door.</li> <li>3. Data jacks for teacher desk diagonally opposite.</li> <li>4. CB – Call Box: This is an independent separate system governing communication with central main office, can be used away from window, door, etc. For an incident, to get someone outside the classroom involved – call button alerts issue, office calls into room using speaker, teacher can communicate hands-free with office. Intercom opens up talk path - \$25 device plus \$100 cable. Some schools have two in every room – we are going with one. Control is PA system, not phone system. Same system for all-school announcement.</li> </ol>	Edvance to continue development of the CD60 pricing documents.	Open

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	5. Can also get access to PA by dialing a code. Multi systems, multi modes. Also will have phone and call box in ELA space. 6. Data – double in corner, another next to desk, plus one for projector, one in ceiling.		

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

Sincerely,

DORE & WHITTIER ARCHITECTS, INC.  
Architects ■ Project Managers

TOM HENGELSBERG, AIA, NCARB, LEED AP, MCPPO  
PROJECT MANAGER

c: Attendees  
File





## MEETING MINUTES CD #4

DATE OF MEETING: May 8, 2019

PROJECT: W. EDWARD BALMER ELEMENTARY SCHOOL

PROJECT NO.: 17-0759

SUBJECT: WORKING GROUP (WG) MEETING – Salvage, Construction Phasing & Logistics

ATTENDING: Tom Hengelsberg – D&W      Melissa Walker – NPS Business Manager  
 Jim Mauer – FBI, CM      Karlene Ross – Principal, Balmer ES  
 Joel Seeley – SMMA (OPM)      Amy McKinstry – Acting Superintendent  
*(Partial for Phasing Discussion- item 04-8 onward):*      Jill Healy – Principal, NES  
 Dave Fontaine, Jr – FBI, CM      Greg Rosenthal - Dir of Pupil Personnel Svcs  
 Rob Day, FBI, CM      Richard Maglione – Dir of Facilities *absent*  
 Joel Kent, FBI, CM

ITEM	MINUTES	ACTION/ WHO	STATUS/ DATE
04-1	<p><b>SALVAGE:</b></p> <p>TH discussed the upcoming need to specify which items will be salvaged from the existing school. D&amp;W will need a salvage list for our specification, broken down into the following categories. Items should be:</p> <ul style="list-style-type: none"> <li>• installed new less than 2-3 years ago,</li> <li>• nearly new condition, and</li> <li>• <u>easy to remove</u>, to be used elsewhere in district, or something of significant material and sentimental value.</li> </ul> <p><b>If it's not in very good to excellent condition, it's probably not worth saving it.</b></p> <p><b>A "90% Final" list will be needed before the 90% CD specs are done, which can still be edited, but must be pretty close by then.</b></p>	<p><b>A "90% Final" list needed, by 7/15/19</b></p>	Open
04-2	<p>TH continued discussion: Our task will be to think about the contents of the buildings in terms of the following "piles":</p> <ul style="list-style-type: none"> <li>A. NEW OR NEARLY NEW, OF VALUE, WANT TO KEEP AND BRING TO NEW SCHOOL</li> <li>B. OF VALUE AND WANT TO OFFER TO ANOTHER SCHOOL IN DISTRICT</li> <li>C. OF VALUE AND WANT TO OFFER TO ANOTHER TOWN DEPARTMENT (FIRE, POLICE, DPW, TOWN HALL, PARKS &amp; REC?)</li> <li>D. <b>WHAT'S LEFT:</b> PUBLIC PROPERTY DISPOSITION AS SURPLUS – I.E. OFFER TO THE PUBLIC. SMMA to advise. Joel stated:                         <ul style="list-style-type: none"> <li>• Around November 2020, we will start thinking about existing FF&amp;E and hiring a moving company.</li> <li>• The new building will have all-new FF&amp;E and Technology.</li> <li>• June 2021, the existing building will be in a state of not yet ready to abate haz mat.</li> </ul> </li> </ul>	<p>D&amp;W/ SMMA to work with Richard to develop selection process for used FF&amp;E</p> <p>SMMA to develop Moving Specifications at appropriate time in future.</p>	Open

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	<ul style="list-style-type: none"> <li>• June 2021 – most communities will donate unused furniture to countries in need – Movers know this protocol – put it in containers, clear out the building, allows abatement to commence.</li> <li>• Schedule: June 20 school out, first 1 week for teachers, then 1 week for movers, then turn building over to contractor.</li> <li>• NES would work on same schedule.</li> <li>• Moving boxes will be included in RFP.</li> <li>• April vacation is a good time to start. Both principals assented, and they are already starting to tell staff to start paring down.</li> <li>• Moving – teachers will pack boxes. Movers will move boxes, teachers pack &amp; unpack. Narrow window of what teachers do.</li> </ul> <p>E. LEAVE IN BUILDING AS DEMOLITION MATERIAL – Demo contractor may be able to glean value on the used furniture market, or as scrap/recycled material.</p> <p>In summary, we will need to develop a process—with Richard in the lead—of selecting what gets saved and can be used at other schools or town buildings, versus what gets donated.</p>		
04-3	<p><b>BUILDING-RELATED OR FIXED ITEMS:</b> [comments from meeting in bold]:</p> <p>A suggested list, not limited to:</p> <ol style="list-style-type: none"> <li>1. Architectural, building-mounted items (Balmer only):             <ol style="list-style-type: none"> <li>a. Doors – Richard to survey</li> <li>b. Hardware– Richard to survey</li> <li>c. Specialties &amp; accessories– Richard to survey – not likely</li> <li>d. Visual display – white boards, tack boards, display cases, directories– Richard to survey</li> <li>e. Signage                 <ol style="list-style-type: none"> <li>i. <b>“Balmer” building letters</b>– Yes, disposition TBD SBC vote to keep and deploy?</li> <li>ii. Room/ ADA signage - No</li> </ol> </li> <li>f. Balmer and Vail portraits - to be relocated to new building</li> <li>g. Bronze Plaque: Balmer – yes; NES - probably not</li> </ol> </li> <li>2. MEP Equipment?? (Balmer only) – Richard to survey, but probably not</li> <li>3. Kitchen Equipment – may be some pieces – Melissa to contact Aramark – could be written into contract to move into the Middle School.</li> <li>4. Building-mounted interior Athletic Equipment?? - No</li> <li>5. Playground equipment?? Richard to survey – would likely be Town Rec donation if so</li> <li>6. Site athletic equipment?? – Soccer goals, etc. belong to Town – to be removed by July 1             <ol style="list-style-type: none"> <li>a. Shipping Container in the woods on the east property line near Vail baseball field – who owns this? Probably Parks and Rec Baseball program – will ask to remove</li> </ol> </li> </ol>	<p>Richard Maglione to survey as listed at left.</p> <p>Melissa to contact Aramark re. used KEQ</p> <p>District to contact Parks &amp; Rec to remove equipment before July 1.</p>	Open
04-4	<p><b>EXTERIOR ITEMS</b> [comments from meeting in bold]:</p> <p>Any exterior site items, such as,</p> <ol style="list-style-type: none"> <li>1. Memorial Garden items - Memorial flowering tree – TH to check with LA about survival, as opposed to replacing with new similar tree and rededicating it. Also there are numerous perennial flower bulbs that should be relocated from the CY.</li> <li>2. Memorial trees or shrubs that we want re-planted in the new site, associated plaques if any- None mentioned.</li> </ol>	TH to check with LA about tree transplant/survival	Open

	<ol style="list-style-type: none"> <li>3. Modular H/C ramp in the courtyard of Balmer?? - No</li> <li>4. Memorial Bench – Yes, Balmer and NES have benches that will come to new Balmer.</li> <li>5. Gazebo – no</li> </ol>		
04-5	<p>TECHNOLOGY, [comments from meeting in bold]:</p> <p>Building-installed items, easy to remove, nearly new, having some ongoing value, and in excellent condition: TH stated that Greg Palmer is aware of the salvage needs and schedule and will be reviewing IT equipment.</p> <ol style="list-style-type: none"> <li>1. Servers</li> <li>2. Mounting racks</li> <li>3. Routers &amp; switches</li> <li>4. WAP devices– new this year, to be salvaged for back-stock for district, summer 2021</li> <li>5. Security Cameras– relatively new, to be salvaged for back-stock for district, summer 2021</li> <li>6. Patch Cables</li> <li>7. Phone equipment and switches – new this year, to be relocated to new building at switch-over time, summer 2021</li> <li>8. Loose Technology – Greg Palmer is in conversation with Scott Goodrich as to what gets re-used in the new building, and will decide what gets re-distributed to other buildings.</li> </ol>	Greg Palmer to develop transition plan along with Scott Goodrich/ Edvance	Open
04-6	<p>FURNITURE, FIXTURES, AND EQUIPMENT: [comments from meeting in bold]:</p> <p>Items purchased new less than ~5 years ago, good condition, to be used elsewhere in District. Identify by Building, Room Number/Name. You may want to come up with a tagging system for larger items – stickers? – to record decisions so you only do it once. A suggested list, including but not limited to:</p> <ol style="list-style-type: none"> <li>1. Student Desks and chairs – to Countries in Need – by Mover</li> <li>2. Teacher Desks and chairs – Richard to survey but likely will go to Countries in Need – by Mover</li> <li>3. Tables – Richard to survey but likely will go to Countries in Need – by Mover</li> <li>4. Shelving units – Richard to survey but likely will go to Countries in Need – by Mover</li> <li>5. File cabs – Richard to survey and cull better ones for re-use in other buildings in District. The rest will go to Countries in Need – by Mover</li> <li>6. <b>Teaching aids (“weasels”, etc)</b> – Principals to reserve and tag newer weasels for re-use in new building.</li> <li>7. Fabric-wrapped office partitions – Sp.Ed. rooms - to Countries in Need – by Mover</li> <li>8. Sensory furniture – Teachers/Principal/ Richard to survey but likely will go to Countries in Need – by Mover</li> <li>9. <b>OT/PT furniture and equipment (e.g. “standers”, “walkers”, swings, padding, balls, etc.)</b> – these go with the individual student and will be moved to new building</li> <li>10. Library Furniture – Old, but in reasonable shape; to be surveyed, and may go to other schools in district.</li> <li>11. Kitchen small-wares – unless it is nearly new, it should be recycled.</li> <li>12. Cafeteria furniture - to Countries in Need – by Mover</li> <li>13. Loose Athletic and Recess equipment– unless it is nearly new, it should be passed on to Parks and Rec or to Countries in Need – by Mover.</li> <li>14. Maintenance equipment &amp; tools – Richard to survey and select items to save</li> <li>15. Maintenance furniture– Richard to survey and select items to save</li> <li>16. <b>Teachers’ Items: now is the time to start weeding out what you don’t want to move, and to stop taking in unnecessary items. - acknowledged</b></li> </ol>	<p>Richard Maglione to survey as listed at left.</p> <p>Principals to tag better equipment as listed at left.</p>	Open

	17. Curriculum Items – books, software, manipulatives, supplies, etc. acknowledged		
04-7	<p>MURALS: [comments from meeting in bold]:</p> <p>There has been discussion of a photography project to record the Balmer and NES murals, and production of high-quality prints of the murals for display in the new building.</p> <ul style="list-style-type: none"> <li>• TH stated, this is a District initiative that must have a champion and leader, a schedule for completion, a production plan (materials, vendors for reproduction, digital editing required, desired outcome clearly defined), a budget, and willing staff and volunteers to carry it out.</li> <li>• Karlene stated, the Art Teacher may take photos of the murals.</li> <li>• Joel stated, he has seen the architect design a frame system of 3 x 5 squares, with photos applied to MDO board, and created a memorial wall. D&amp;W to consider.</li> </ul>	Karlene to coordinate photography of murals prior to demolition summer 2021	Open
	<p>CONSTRUCTION PHASING AND LOGISTICS</p> <p>Review site phasing plans by Fontaine Brothers Inc.</p>		
04-8	<p>PHASE 1:</p> <ul style="list-style-type: none"> <li>• <b>8' construction fence with scrim to be deployed around entire site</b></li> <li>• At common line east and north of school, the fence will have a Jersey barrier base with 8' fence/ scrim on top of it.</li> <li>• At the east emergency alley, the school will need to close off the former Pre-K room exit door. Karlene stated this is not used anyway – she wants occupants to egress out the north and south doors of the 2-story portion of the building.</li> <li>• There was discussion about how this alleyway would be protected. Fontaine is considering plywood. To be discussed with the AHJ and Fire Chief.</li> <li>• Teacher parking will be relocated to west side of building, with temp lighting, re-using existing boxes and wiring. Karlene requested that existing paving be repaired at the same time – it is substandard at this time.</li> <li>• The west entrance to parking will be widened, and gate removed.</li> <li>• TH noted that the transformer is in the way of the parking as drawn – D&amp;W to provide alt plan sketch.</li> <li>• A snow maintenance plan will be developed and reviewed in the future.</li> <li>• The existing vehicular entrance will be widened by one lane</li> <li>• Jim pointed out the trailer location, directly behind the hardscape playground. A gate will be placed in the construction fence here to facilitate easy access to site by adults.</li> <li>• Joel specified that parking spaces for Design and OPM staff as well as AHJs visits must be provided next to trailers.</li> <li>• There was some discussion of sequencing of stormwater provisions on the site. Dave Fontaine stated that FBI will cut some test pits to determine ground water level – TH added there is a monitoring well now, but this will be destroyed once excavation begins in earnest.</li> <li>• Greg asked about timing of loud noises – concerned construction will adversely affect social/emotional kids. FBI will limit noise during sensitive periods such as testing, but there will be disruption.</li> <li>• Principals will consider placement of students relative to the work site.</li> </ul>	<p>D&amp;W to set up AHJ/ NFD meeting for late May/early June. FBI to develop phasing drawings for that meeting.</p> <p>D&amp;W to provide plan sketch of temp facilities for Phase 1</p> <p>FBI to pick up comments from this meeting on phasing plans.</p>	Open
04-9	<p>Phase 2A – Early Summer 2021</p> <ul style="list-style-type: none"> <li>• U-10 Field will be planted Spring 2020. Two growing seasons: FA'20, Sp'21, and it will be ready to play on.</li> <li>• Principals realized they will need to move summer programs from Balmer and NES to other buildings in the District.</li> <li>• The building is done, but not able to be moved into fully just yet.</li> </ul>	NPS to review summer programs for SU' 21 schedule.	Open

	<ul style="list-style-type: none"> <li>Abatement/demo happens during summer, after staff move-out</li> <li>Discussion of soil stockpiles – Rob stated it may be better to export/import than to work around large piles of material on-site, as space is limited.</li> </ul>		
04-10	<p>Phase 2B – School Opening 2021</p> <ul style="list-style-type: none"> <li>Main feature of this plan is FBI will have to use a one-lane, two-way access to the site for demo and site work.</li> <li>New circulation: bus used car drop loop; cars circulate counter-clockwise around the back of the school and drop off at back door.</li> <li>Discussion of permanent fence installation on Vail Field to keep people off the growing grass.</li> <li>FBI may also leave construction fence up to protect seeded fields so they cannot be played on, in certain cases</li> <li>FBI to look into cost of sodding the (2) U-6 fields versus seeding – schedule advantage? Also (2) U-8 fields for that matter.</li> <li>Fontaine asked if it would be possible to move NES in December 2021? Jill and Karlene expressed that this would be nearly impossible to accommodate with the schedule, effort, and disruption of building transitions.</li> <li>Melissa wondered whether staggered start times might help with school opening crunch? To be considered.</li> </ul>	FBI to provide cost to sod (2) U-6 and (2) U-8 fields in lieu of seeding	Open
04-11	<p>Phase 2C – Final Setup Fall 2021</p> <ul style="list-style-type: none"> <li>Hypothetical if soils stockpiles not used.</li> <li>FBI will still have to utilize one-lane access.</li> <li>If SBC or AHJ is not OK with shared drive, Vail Field will get turned over later, as FBI will have to make a temp road through the outfields of the baseball complex. Late Fall (Thanksgiving) 2021 turnover versus Spring 2022.</li> </ul>	Acceptance depends on SBC/ AHJ review.	Open
04-12	<p>Mini Phase 3 – Temp parking to U-8 fields</p> <ul style="list-style-type: none"> <li>Discussed also looking at sodding these fields in lieu of seeding to save time getting them on-line.</li> </ul>	FBI to provide cost to sod (2) U-6 and (2) U-8 fields in lieu of seeding	Open

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

Sincerely,

DORE & WHITTIER ARCHITECTS, INC.  
 Architects ■ Project Managers

TOM HENGELSBERG, AIA, NCARB, LEED AP, MCPPO  
 PROJECT MANAGER

c: Attendees  
 File



**EASEMENT APPLICATION - VERIZON and/or ELECTRIC COMPANY**

Easement Application for Underground and/or Aerial Services. Please complete all applicable sections below so that we may prepare an easement for the project. If a section does not apply, enter "N/A" or simply leave blank. Incomplete or inaccurate information could delay service.

**Property Owner:** Town of Northbridge

**Contact Name:** Adam Gaudette, Town Manager

**Mailing Address:** 7 Main Street, Whitinsville, Massachusetts 01588

**Phone Number:** 508-234-2095

**Project Address:** 21 Crescent Street, Whitinsville, Massachusetts 01588

**REGISTRY OF DEEDS INFORMATION:** Provide a Copy of the Current Owner's (yours) Recorded Deed along with the following Registry of Deeds Information: Book 4369, Page 342. Note, if multiple deeds make up the whole parcel, please include all deeds. If this is Registered Land, please include a copy of the Land Court Certificate of Title.

If available, provide us with a copy of the Recorded Plan of Land showing the property or the Registry of Deeds Plan Book \_\_\_\_\_, and Page \_\_\_\_\_ numbers.

**ENTITY INFORMATION (if applicable):** If the Property Owner is a Corporation/Trust/Partnership/LLC, please provide the following Information:

**\*Corporation:** Authorized to execute documents for the transfer of real estate:

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Name: \_\_\_\_\_ Title: \_\_\_\_\_

**\*Trust:** Number of Trustees: \_\_\_\_\_, Name(s): \_\_\_\_\_

\_\_\_\_\_, Declaration of Trust Date: \_\_\_\_\_,

Registry of Deeds Book: \_\_\_\_\_, Page \_\_\_\_\_.

**\*LLC:** Persons Authorized to execute documents for the transfer of real estate: ***(include an original "Certificate of Good Standing" with the easement application).***

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Name: \_\_\_\_\_ Title: \_\_\_\_\_

**\*Partnership:** Number of partners: \_\_\_\_\_. Persons Authorized to execute documents for the transfer of real estate:

Name: \_\_\_\_\_

Name: \_\_\_\_\_

**FILING FEE:** Enclose a \$75.00 check payable to "Verizon New England, Inc." to pay for the easement recording fee at the Registry of Deeds. Return the application and check to: Right of Way Department, 365 State Street, Springfield, MA 01105.

If you have any questions, please contact Al Bessette at (413) 787-0310 or email at [albert.e.bessette.jr@verizon.com](mailto:albert.e.bessette.jr@verizon.com)

## Memorandum

To: W. Edward Balmer Elementary School Building Committee Date: 6/12/2019  
From: Joel G. Seeley Project No.: 17020  
Project: W. Edward Balmer Elementary School  
Re: Designer Amendment No. 15: Geotechnical Engineering Services during DD-CA Phases  
Distribution: School Building Committee (MF)

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### **DESIGNER AMENDMENT NO. 15: GEOTECHNICAL ENGINEERING SERVICES DURING DD-CA PHASES**

**FEE:** \$57,695.00

**REASON:** Provide Geotechnical Engineering Services during Design Development through Construction Administration Phases at the W. Edward Balmer Elementary School site.

**BUDGET AVAILABILITY:** This Amendment would be funded out of the Geotechnical and GeoEnvironmental Services Costs Budget, ProPay Code 0204-0300 which has the current balance of \$75,430.00.

# **ATTACHMENT F**

## **CONTRACT FOR DESIGNER SERVICES AMENDMENT NO. 15**

**WHEREAS**, the Town of Northbridge (“Owner”) and Dore & Whittier Architects, Inc., (the “Designer”) (collectively, the “Parties”) entered into a Contract for Designer Services for the W. Edward Balmer Elementary School Project (Project Number 201502140001) at the W. Edward Balmer Elementary School on June 26, 2017 “Contract”; and

**WHEREAS**, effective as of June 12, 2019, the Parties wish to amend the Contract:

**NOW, THEREFORE**, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. The Owner hereby authorizes the Designer to perform services for the Design Development Phase, the Construction Phases, and the Final Completion Phase of the Project, pursuant to the terms and conditions set forth in the Contract, as amended.
2. For the performance of services required under the Contract, as amended, the Designer shall be compensated by the Owner in accordance with the following Fee for Basic Services:

**Fee for Basic Services:**

	<b>Original Contract</b>	<b>Prior Amendments</b>	<b>This Amendment</b>	<b>After this Amendment</b>
Feasibility Study Phase	\$200,000.00	\$ 141,803.50	\$ 0.00	\$ 341,803.50
Schematic Design Phase	\$225,000.00	\$ 4,950.00	\$ 0.00	\$ 229,950.00
Design Development Phase	\$ 0.00	\$1,959,679.00	\$ 0.00	\$ 1,959,679.00
Construction Document Phase	\$ 0.00	\$2,657,249.00	\$ 57,695.00	\$ 2,714,944.00
Bidding Phase	\$ 0.00	\$ 227,830.00	\$ 0.00	\$ 227,830.00
Construction Phase	\$ 0.00	\$2,252,218.00	\$ 0.00	\$ 2,252,218.00
Completion Phase	\$ 0.00	\$ 164,136.00	\$ 0.00	\$ 164,136.00
<b>Total Fee</b>	<b>\$425,000.00</b>	<b>\$7,407,865.50</b>	<b>\$ 57,695.00</b>	<b>\$7,890,560.50</b>

This Amendment is a result of: Provide Geotechnical Engineering Services during Design Development through Construction Administration Phases.

---

MSBA ProPay 0204-0300

---



3. The Construction Budget shall be as follows:

Original Budget:	\$ <u>79,492,662.00</u>
Amended Budget	\$ <u>79,492,662.00</u>

4. The Project Schedule shall be as follows:

Original Schedule:	<u>December 20, 2021</u>
Amended Schedule	<u>December 20, 2021</u>

5. This Amendment contains all of the terms and conditions agreed upon by the Parties as amendments to the original Contract. No other understandings or representations, oral or otherwise, regarding amendments to the original Contract shall be deemed to exist or bind the Parties, and all other terms and conditions of the Contract remain in full force and effect.

IN WITNESS WHEREOF, the Owner, with the prior approval of the Authority, and the Designer have caused this Amendment to be executed by their respective authorized officers.

OWNER

Alicia Cannon  
(print name)  
Board of Selectmen, Town of Northbridge  
(print title)  
By \_\_\_\_\_  
(signature)  
Date June 12, 2019

DESIGNER

Lee P. Dore  
(print name)  
Principal / Vice President, Dore & Whittier Architects  
(print title)  
By \_\_\_\_\_  
(signature)  
Date June 12, 2019

May 31, 2019



Mr. Joel Seeley, AIA  
COO, Executive Vice President  
Symmes Maini & McKee Associates Project Management  
1000 Massachusetts Avenue  
Cambridge, MA 02138

Project: Balmer Elementary School - #17-0759

Subject: ASR #15

Dear Joel,

As it is time to activate the Geotechnical Engineer for DD – CA Phase services, we present this additional service request to perform that work.

In accordance with contract Article 8, please accept the following fee proposal for additional consulting services, billed on a Time and Expenses basis, not to exceed the fee amount as follows:

DD-CA Phase Services	LGCI, Inc.	\$52,450.00
<ul style="list-style-type: none"><li>• Prepare Earth Moving Specifications</li><li>• Review CD60 Drawings and provide comments</li><li>• Review <b>Submittals and RFI's</b></li><li>• Attend Kickoff Meeting and supervise any required test pits</li><li>• Site Visits during Construction Administration Phase</li><li>• Reports and Project Management</li><li>• Expenses, if any, will be billed at cost plus 10% markup</li></ul>		

In accordance with contract Article 9, Dore & Whittier Architects hereby submits a fee for coordination of these additional services in the amount of 10%, Not To Exceed \$5,245.00

TOTAL, ASR #15, Not To Exceed \$57,695.00

Please see the attached **consultant's** proposal which details scope of services and schedule.  
Note that all other provisions of the prime contract remain in force.

Sincerely,

DORE & WHITTIER ARCHITECTS, INC.  
Architects • Project Manager

Lee P. Dore, Assoc, AIA, CSI, LEED AP, MCPPO  
Principal

cc. DWA Dist.; file.

ARCHITECTS  
PROJECT MANAGERS

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

212 Battery Street  
Burlington, VT 05401  
802.863.1428 ph  
802.863.6955

[www.doreandwhittier.com](http://www.doreandwhittier.com)

March 30, 2018  
Revised May 30, 2019

Tom Hengelsberg, AIA, LEED AP, NCARB, MCPPO  
Dore & Whittier Architects, Inc.  
212 Battery Street  
Burlington, VT 05401  
Phone: (802) 863-1428  
Mobile: (802) 238-9585  
E-mail: [thengelsberg@DoreandWhittier.com](mailto:thengelsberg@DoreandWhittier.com)

**Re: Proposal for Geotechnical Field Services  
Proposed W. Edward Balmer Elementary School  
Northbridge, Massachusetts  
LGCI Proposal No. 18038-Rev. 1**

Dear Mr. Hengelsberg:

Lahlaf Geotechnical Consulting, Inc. (LGCI) appreciates the opportunity to submit this proposal to provide geotechnical field services for the proposed W. Edward Balmer Elementary School in Northbridge, Massachusetts. Our proposal is based on information you provided to us on the phone on March 16, 2018.

### **Background and Project Understanding**

The existing W. Edward Balmer Elementary School is located at 21 Crescent Street in Whitinsville (Northbridge), Massachusetts. The site is bordered by Crescent Street on the southern side, by Overlook Street and North Main Street on the western side, by wooded land on the northern side, and by private properties on the eastern side.

We understand that the proposed building consists of an irregularly-shaped building to be located mostly in the wooded area to the east of the existing school and partially in the grass athletic fields on the northern side of the existing school building.

LGCI performed explorations at the site and submitted a geotechnical report dated February 23, 2018. In our geotechnical report, LGCI recommended supporting the proposed building on shallow foundations after the existing fill and organic soil are removed and installing an under-slab drainage system.

The purpose of our services is to provide a geotechnical engineer to observe the removal of the existing fill and organic soil and the installation of the under-slab drainage system. LGCI will also be available for general consultation with regard to geotechnical issues during construction on an as-needed basis if requested by you.

## Scope of Work

1. Review Drawings – LGCI will review the geotechnical aspect of the structural and civil drawings, and we will provide written comments. We have budgeted eight (8) hours for this task.
2. Prepare Earth Moving Specifications – We will prepare earth moving specifications or we will review and edit Earth Moving specifications prepared by others. We have budgeted eight (8) hours for this task.
3. Contractor Submittals and RFIs – LGCI will assist Dore & Whittier Architects, Inc. in reviewing requests for information (RFIs) related to geotechnical issues. We have budgeted twenty-four (24) hours for this task.
4. Kickoff Meeting and Observe Test Pits – An LGCI engineer will attend a kickoff meeting at the start of construction. Also, to delineate the extent of the existing fill, LGCI will provide a geotechnical representative at the start of the earthwork operations to observe test pits excavated by the contractor. We have budgeted eight (8) hours for this task.
5. Site Visits to Observe for Subgrade of Footings and Slabs, and the installation of the under-slab Drainage System – We will provide a geotechnical engineer to observe the removal of the existing fill and organic material, and to observe the subgrade of footings and slabs. If the contractor elects to crush material onsite, we will work with the contractor to come up with a blend that produces fill meeting the gradation requirements of Structural Fill and/or Ordinary Fill. We will also observe the installation of the under-slab drainage system.

We have not included in this proposal time for observing the subgrade of roadways or utility trenches. Our engineer will provide recommendations about the suitability of backfill materials. In addition, we would be pleased to attend site meetings regarding the foundation work, if requested. Our scope does not include observation of backfilling operations and field density testing. We understand that the owner will retain a separate testing agency to perform these services. We have assumed that the earthwork operations will require thirty eight (38) visits. We have budgeted nine (9) hours per visit, including travel to and from the site.

6. Field Observation Reports, Review, and Coordination – We will provide a geotechnical engineer to consult with you and with the contractor during earthwork operations. While we are providing our services, our engineer will also review the earthwork-related daily field reports prepared by the testing agency engaged by you and which you request that we review. Our engineer will prepare daily field reports containing a summary of our observations and a summary of the geotechnical recommendations made in the field. Our reports will be submitted weekly at the beginning of the week following our visits. We have budgeted about one (1) hour per field report and five (5) hours per week for a senior engineer for coordination and review.



LGCI's scope of services does not include an environmental assessment for the presence or absence of wetlands, or analytical testing for hazardous or toxic materials in the soil, surface water, groundwater, or air, on or below or around this site. Any statements regarding odors, colors, or unusual or suspicious items or conditions are strictly for the information of the client.

Recommendations for unsupported slopes, stormwater management, erosion control, pavement design, and detailed cost or quantity estimates are not included in our scope of work.

### **Proposed Schedule**

LGCI will begin work upon receiving authorization in the form of a signed copy of this proposal. Generally, we require a one-week notice for the first visit. During construction, we will coordinate our work with the contractor. We request a minimum of a 2-day notice before each visit.

### **Project Fee**

We will perform our services on a time-and-expenses basis using rates of \$97/hour for a field engineer, \$105/hour for our geotechnical engineer, and \$133/hour for a senior geotechnical engineer. Expenses, if any, will be billed at cost plus 10 percent.

For your planning and budgeting purposes we recommend budgeting **\$52,450** for our services. The breakdown of our fee is shown below:

1	Review Drawings	\$1,000
2	Prepare/Review Earth Moving Specs	\$1,000
3	Contractor Submittals and RFIs	\$3,000
4	Kickoff Meeting and Test Pits	\$1,050
5	Site Visits	\$37,520
6	Reports and Management	<u>\$8,880</u>
		<b>\$52,450</b>

No services beyond those described above would be provided without your prior knowledge and approval. If site conditions or your needs require a change in the scope of work, we will prepare for your approval a change order request that summarizes the changes to the project scope and fee.

### ***Terms and Conditions***

We propose performing our services in general accordance with our agreement for this project dated June 26, 2017 and signed by Mr. Lee P. Dore of Dore and Whittier Architects, Inc. Your acceptance of this proposal by signing and returning one complete copy will form our agreement



for these services, and will serve as written authorization to proceed with the described scope of work.

LGCI trusts that the above proposal will be sufficient to meet your needs. If this proposal is acceptable, please sign and return a complete copy of this proposal to LGCI. If you have any questions, please call us at (978) 330-5912.

Sincerely,

**LAHLAF GEOTECHNICAL CONSULTING, INC.**



Abdelmadjid M. Lahlaf, Ph.D., P.E.  
Principal Engineer

**Agreed to by (please type name):** \_\_\_\_\_ **on (date):** \_\_\_\_\_

**Company Name:** \_\_\_\_\_

**Signature:** \_\_\_\_\_



## Memorandum

To: W. Edward Balmer Elementary School Building Committee Date: 6/12/2019  
From: Joel G. Seeley Project No.: 17020  
Project: W. Edward Balmer Elementary School  
Re: Designer Amendment No. 16: Hazardous Materials Services during Design Phases  
Distribution: School Building Committee (MF)

---

### **DESIGNER AMENDMENT NO. 16: HAZARDOUS MATERIALS SERVICES DURING DESIGN PHASES**

**FEE:** \$23,100.00

**REASON:** Provide Hazardous Materials Services during Design Phases at the W. Edward Balmer Elementary School site.

**BUDGET AVAILABILITY:** This Amendment would be funded out of the Hazardous Materials Services Costs Budget, ProPay Code 0204-0200 which has the current balance of \$100,000.00.

# ATTACHMENT F

## CONTRACT FOR DESIGNER SERVICES AMENDMENT NO. 16

**WHEREAS**, the Town of Northbridge (“Owner”) and Dore & Whittier Architects, Inc., (the “Designer”) (collectively, the “Parties”) entered into a Contract for Designer Services for the W. Edward Balmer Elementary School Project (Project Number 201502140001) at the W. Edward Balmer Elementary School on June 26, 2017 “Contract”; and

**WHEREAS**, effective as of June 12, 2019, the Parties wish to amend the Contract:

**NOW, THEREFORE**, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. The Owner hereby authorizes the Designer to perform services for the Design Development Phase, the Construction Phases, and the Final Completion Phase of the Project, pursuant to the terms and conditions set forth in the Contract, as amended.
2. For the performance of services required under the Contract, as amended, the Designer shall be compensated by the Owner in accordance with the following Fee for Basic Services:

**Fee for Basic Services:**

	<b>Original Contract</b>	<b>Prior Amendments</b>	<b>This Amendment</b>	<b>After this Amendment</b>
Feasibility Study Phase	\$200,000.00	\$ 141,803.50	\$ 0.00	\$ 341,803.50
Schematic Design Phase	\$225,000.00	\$ 4,950.00	\$ 0.00	\$ 229,950.00
Design Development Phase	\$ 0.00	\$1,959,679.00	\$ 0.00	\$ 1,959,679.00
Construction Document Phase	\$ 0.00	\$2,714,944.00	\$ 23,100.00	\$ 2,738,044.00
Bidding Phase	\$ 0.00	\$ 227,830.00	\$ 0.00	\$ 227,830.00
Construction Phase	\$ 0.00	\$2,252,218.00	\$ 0.00	\$ 2,252,218.00
Completion Phase	\$ 0.00	\$ 164,136.00	\$ 0.00	\$ 164,136.00
<b>Total Fee</b>	<b>\$425,000.00</b>	<b>\$7,465,865.50</b>	<b>\$ 23,100.00</b>	<b>\$7,913,660.50</b>

This Amendment is a result of: Provide Hazardous Materials Engineering Services during Design Phases.

---

MSBA ProPay 0204-0200

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3. The Construction Budget shall be as follows:

Original Budget:	\$ <u>79,492,662.00</u>
Amended Budget	\$ <u>79,492,662.00</u>

4. The Project Schedule shall be as follows:

Original Schedule:	<u>December 20, 2021</u>
Amended Schedule	<u>December 20, 2021</u>

5. This Amendment contains all of the terms and conditions agreed upon by the Parties as amendments to the original Contract. No other understandings or representations, oral or otherwise, regarding amendments to the original Contract shall be deemed to exist or bind the Parties, and all other terms and conditions of the Contract remain in full force and effect.

IN WITNESS WHEREOF, the Owner, with the prior approval of the Authority, and the Designer have caused this Amendment to be executed by their respective authorized officers.

OWNER

Alicia Cannon  
(print name)  
Board of Selectmen, Town of Northbridge  
(print title)  
By \_\_\_\_\_  
(signature)  
Date June 12, 2019

DESIGNER

Lee P. Dore  
(print name)  
Principal / Vice President, Dore & Whittier Architects  
(print title)  
By \_\_\_\_\_  
(signature)  
Date June 12, 2019



DORE & WHITTIER ARCHITECTS, INC.

May 31, 2019

Mr. Joel Seeley, AIA  
COO, Executive Vice President  
Symmes Maini & McKee Associates Project Management  
1000 Massachusetts Avenue  
Cambridge, MA 02138

Project: Balmer Elementary School - #17-0759

Subject: ASR #16

Dear Joel,

As it is time to activate the Hazardous Materials Consultant for DD – CA Phase services, we present this additional service request to perform that work.

In accordance with contract Article 8, please accept the following fee proposal for additional consulting services, for the lump sum fee amount as follows:

DD-CA Phase Services	Universal Environmental Consultants, Inc.	\$21,000.00
	<ul style="list-style-type: none"> <li>• Task I – Asbestos Inspection Services</li> <li>• Task II – Hazardous Materials Design Services</li> </ul>	

In accordance with contract Article 9, Dore & Whittier Architects hereby submits a fee for coordination of these additional services in the amount of 10%, or \$2,100.00

TOTAL, ASR #16 \$23,100.00

Please see the attached **consultant's** proposal which details scope of services and schedule. Note that all other provisions of the prime contract remain in force.

Sincerely,

DORE & WHITTIER ARCHITECTS, INC.  
Architects • Project Manager

Lee P. Dore, Assoc, AIA, CSI, LEED AP, MCPPO  
Principal

cc. DWA Dist.; file.

ARCHITECTS  
PROJECT MANAGERS

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

212 Battery Street  
Burlington, VT 05401  
802.863.1428 ph  
802.863.6955

www.doreandwhittier.com

March 15, 2018

Mr. Tom Hengelsberg  
Dore & Whittier Architects  
260 Merrimac Street  
Newburyport, MA 01950

Reference: **Hazardous Materials Consulting Services**  
**Balmer School, Northbridge, MA**

Dear Mr. Hengelsberg:

Thank you for the opportunity for Universal Environmental Consultants (UEC) to provide professional services.

We are pleased to submit our proposal for the above referenced project.

Should this proposal meet with your approval, kindly execute and return the enclosed proposal.

Please do not hesitate to call me at (508) 628-5486 if you have questions about this proposal or our services.

Very truly yours,

Universal Environmental Consultants



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Ammar M. Dieb  
President

UEC:\Proposals\IDM\Dore-Balmer School-IDM Task I & II.DOC

Enclosure

**PROPOSAL  
FOR  
HAZARDOUS MATERIALS CONSULTING SERVICES  
AT THE  
BALMER ELEMENTARY SCHOOL  
NORTHBRIDGE, MA**

**SCOPE OF SERVICES:**

**TASK I (Asbestos Inspection Services):**

- A. Conduct an EPA NESHAP inspection of the School for Asbestos Containing Materials (ACM) and obtain data for final design.
- B. Retain the services of a demolition/site contractor (Contractor) to excavate around the foundations walls to expose any suspect ACM that might be found below grade. Backfill using the same excavated soil.
- C. The contractor will also perform selective destructive demolition of the exterior walls to expose any suspect ACM that might be found. Patch the exterior walls with similar or equivalent.
- D. Collect additional bulk samples from suspect materials and analyze these samples for asbestos by Polarized Light Microscopy (PLM) using the Point Count Method (if needed).

**TASK II (Hazardous Materials Design Services):**

- A. Prepare Contract Specifications based on the recommendations as accepted by the client to include the following:
  - Asbestos;
  - Environmental Procedures;
  - Indoor Air Quality;
- B. Prepare addenda and provide any additional information required during the bid period.

**FEES FOR SERVICES:**

**TASK I (Asbestos Inspection Services):**

Lump Sum Fee including all sampling of \$ 9,500.00

**TASK II (Hazardous Materials Design Services):**

Lump Sum Fee of \$ 11,500.00

Proposal Authorized By:



---

Ammar M. Dieb  
President

Proposal Accepted by:

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

## Memorandum

To: W. Edward Balmer Elementary School Building Committee Date: 6/12/2019  
From: Joel G. Seeley Project No.: 17020  
Project: W. Edward Balmer Elementary School  
Re: Designer Amendment No. 17: Site Geo-Environmental Services  
Distribution: School Building Committee (MF)

---

### **DESIGNER AMENDMENT NO. 17: SITE GEO-ENVIRONMENTAL SERVICES**

**FEE:** \$16,170.00

**REASON:** Provide Site Geo-Environmental Services at the W. Edward Balmer Elementary School site.

**BUDGET AVAILABILITY:** This Amendment would be funded out of the Geotechnical and GeoEnvironmental Budget, ProPay Code 0204-0300 which has the current balance of \$75,430.00.

# ATTACHMENT F

## CONTRACT FOR DESIGNER SERVICES

### AMENDMENT NO. 17

**WHEREAS**, the Town of Northbridge (“Owner”) and Dore & Whittier Architects, Inc., (the “Designer”) (collectively, the “Parties”) entered into a Contract for Designer Services for the W. Edward Balmer Elementary School Project (Project Number 201502140001) at the W. Edward Balmer Elementary School on June 26, 2017 “Contract”; and

**WHEREAS**, effective as of June 12, 2019, the Parties wish to amend the Contract:

**NOW, THEREFORE**, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. The Owner hereby authorizes the Designer to perform services for the Design Development Phase, the Construction Phases, and the Final Completion Phase of the Project, pursuant to the terms and conditions set forth in the Contract, as amended.
2. For the performance of services required under the Contract, as amended, the Designer shall be compensated by the Owner in accordance with the following Fee for Basic Services:

**Fee for Basic Services:**

	<b>Original Contract</b>	<b>Prior Amendments</b>	<b>This Amendment</b>	<b>After this Amendment</b>
Feasibility Study Phase	\$200,000.00	\$ 141,803.50	\$ 0.00	\$ 341,803.50
Schematic Design Phase	\$225,000.00	\$ 4,950.00	\$ 0.00	\$ 229,950.00
Design Development Phase	\$ 0.00	\$1,959,679.00	\$ 0.00	\$ 1,959,679.00
Construction Document Phase	\$ 0.00	\$2,738,044.00	\$ 16,170.00	\$ 2,754,214.00
Bidding Phase	\$ 0.00	\$ 227,830.00	\$ 0.00	\$ 227,830.00
Construction Phase	\$ 0.00	\$2,252,218.00	\$ 0.00	\$ 2,252,218.00
Completion Phase	\$ 0.00	\$ 164,136.00	\$ 0.00	\$ 164,136.00
<b>Total Fee</b>	<b>\$425,000.00</b>	<b>\$7,488,660.50</b>	<b>\$ 16,170.00</b>	<b>\$7,929,830.50</b>

This Amendment is a result of: Provide Site GeoEnvironmental Services.

MSBA ProPay 0204-0300

3. The Construction Budget shall be as follows:

Original Budget:	\$ <u>79,492,662.00</u>
Amended Budget	\$ <u>79,492,662.00</u>

4. The Project Schedule shall be as follows:

Original Schedule:	<u>December 20, 2021</u>
Amended Schedule	<u>December 20, 2021</u>

5. This Amendment contains all of the terms and conditions agreed upon by the Parties as amendments to the original Contract. No other understandings or representations, oral or otherwise, regarding amendments to the original Contract shall be deemed to exist or bind the Parties, and all other terms and conditions of the Contract remain in full force and effect.

IN WITNESS WHEREOF, the Owner, with the prior approval of the Authority, and the Designer have caused this Amendment to be executed by their respective authorized officers.

OWNER

Alicia Cannon  
(print name)  
Board of Selectmen, Town of Northbridge  
(print title)  
By \_\_\_\_\_  
(signature)  
Date June 12, 2019

DESIGNER

Lee P. Dore  
(print name)  
Principal / Vice President, Dore & Whittier Architects  
(print title)  
By \_\_\_\_\_  
(signature)  
Date June 12, 2019





May 31, 2019

Mr. Joel Seeley, AIA  
 COO, Executive Vice President  
 Symmes Maini & McKee Associates Project Management  
 1000 Massachusetts Avenue  
 Cambridge, MA 02138

Project: Balmer Elementary School - #17-0759

Subject: ASR #17

Dear Joel,

As it is time to activate the Site Geo-Environmental Consultant for DD – CA Phase services, we present this additional service request to perform that work.

In accordance with contract Article 8, please accept the following fee proposal for additional consulting services, for the lump sum fee amount as follows:

DD-CA Phase Services	F-S Engineers, Inc.	\$5,500.00
<ul style="list-style-type: none"> <li>• Tasks 1.11-1.12 – Underground Storage Tank (UST) Closure</li> </ul>		

The following additional services would only be activated in the event that contaminated soils were found at the UST. Please accept the following fee proposal for contingent additional consulting services, billed on a Time & Expense basis, not to exceed the amount as follows:

DD-CA Phase Services	F-S Engineers, Inc.	\$9,200.00
<ul style="list-style-type: none"> <li>• Tasks 1.13-1.15 – Optional UST Tank Closure Tasks</li> </ul>		

Note that the following services listed on the proposal would only be activated as needed and will be dealt with on a later ASR:

- Task 1.2 – Soil Disposal Characterization

In accordance with contract Article 9, Dore & Whittier Architects hereby submits a fee for coordination of these additional services in the amount of 10%, or NTE	\$1,470.00
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TOTAL, ASR #17, Not to Exceed	\$16,170.00
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ARCHITECTS  
 PROJECT MANAGERS

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

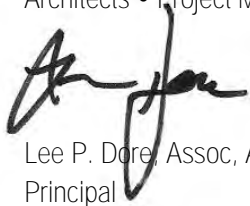
212 Battery Street  
 Burlington, VT 05401  
 802.863.1428 ph  
 802.863.6955

[www.doreandwhittier.com](http://www.doreandwhittier.com)

Please see the attached **consultant's** proposal which details scope of services and schedule.  
Note that all other provisions of the prime contract remain in force.

Sincerely,

DORE & WHITTIER ARCHITECTS, INC.  
Architects • Project Manager

A handwritten signature in black ink, appearing to read "Lee P. Dore", is written over the printed name and title.

Lee P. Dore, Assoc, AIA, CSI, LEED AP, MCPPO  
Principal

cc. DWA Dist.; file.

March 28, 2018

Mr. Thomas Hengelsberg, Project Manager  
Dore and Whittier Architects, Inc.  
212 Battery Street  
Burlington, VT 05401

Re: Professional Services Relative to UST Removal and Soil Characterization at the  
Balmer Elementary School Site in Northbridge, Massachusetts

Dear Tom:

FS Engineers, Inc. (FSE) is pleased to present this proposal for professional services for the above referenced site. FSE is familiar with the Site and its conditions based upon soil characterization studies performed in October 2017. According to the available information there is an underground storage tank (UST) located adjacent to the school building.

In general, our proposed scope of services is to:

- (1) Observe the UST removal and visually assess the UST and surrounding soils for evidence of a petroleum (fuel oil) release;
- (2) Obtain six soil samples (four sidewall and two bottom samples) from the UST excavation after the UST is removed and before the excavation is backfilled;
- (3) Submit the samples for extractable petroleum hydrocarbon (EPH) and volatile petroleum hydrocarbon (VPH) analysis in order to evaluate if a petroleum release occurred from the UST; and,
- (4) Prepare a UST closure letter report describing the UST removal and soil sample analysis results.

The above scope of services assumes that no release of fuel oil has occurred from the UST. If it is determined during the removal that a release of fuel oil to soil has occurred from the UST, additional tasks and cost estimates have been included for oversight of the contaminated soil removal, transport of the soil to disposal/reuse facility under a Bill of Lading, and preparation of a Limited Removal Action (LRA) closure report.

**UST Closure Proposal for  
Balmer Elementary School, Northbridge, MA**

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In addition, FSE will collect soil samples from soil/fill stockpiles requiring offsite disposal/reuse. The stockpiles will be generated as excess soils from site grading and utilities installation. An estimated 1,000 cubic yards of soil will be characterized for offsite disposal/reuse.

FSE is prepared to commit the necessary resources to observe UST removal by the contractor retained by others. The project team will be led by Mr. Farooq Siddique, PE, LSP, as Principal-In-Charge. Mr. Siddique has more than 25 years of professional experience in environmental and civil engineering. He is a registered Professional Engineer and Licensed Site Professional in Massachusetts.

Our proposal includes the Scope of Services, Schedule of Services, Fee for Services, Basis of Proposal, and Agreement for Professional Services.

## **1.0 SCOPE OF SERVICES**

The following is a list of tasks to be performed under this Agreement:

### **1.1 UNDERGROUND STORAGE TANK CLOSURE**

#### **1.11 UST Removal and Soil Sampling**

FSE personnel will be onsite during the UST removal to visually assess the UST, associated piping, and surrounding soils, for evidence of a petroleum release. The UST and buried piping (supply line) will be carefully examined for evidence of holes or other conditions that may indicate a historical release. FSE will document the UST removal with field notes and photographs. The piping between the UST and the building will be removed and examined as part of the closure process.

FSE personnel will obtain six soil samples from the open excavation immediately upon removal of the UST. Four composited sidewall samples and two composited bottom sample will be obtained. The soil samples will be field screened for total volatile organic compounds (VOCs) using a photoionization detector (PID). FSE will also field screen soil samples with the PID during the soil excavation to evaluate the excavated soils for evidence of a historical release from overfills and/or the supply line piping.

The soil samples will be submitted to a MassDEP-certified laboratory for analysis for EPH with target PAH and VPH with target analytes. The analytical results will be tabulated and compared to MassDEP Reportable Concentrations for the EPH, PAH, VPH, and target analytes to establish if a release has occurred.

### **1.12 UST Closure Report Preparation**

FSE will prepare a plan that shows the pertinent site features including the building, UST, UST piping, and soil sampling locations. FSE assumes that the client will provide a base existing conditions site plan. FSE will evaluate, validate and tabulate the soil analytical data. The UST closure report will include a site plan, photographs, laboratory certificates of analysis, and text describing the sampling procedures and sample analysis results.

### **Optional Tasks (if oil released from the UST)**

If it is determined based on soil sampling results that a release has occurred from the UST, the following tasks are proposed to oversee the excavation and offsite transport of contaminated soil.

### **1.13 Bill of Lading Preparation**

If contaminated soil is encountered in the UST excavation, and excavation and offsite disposal are required, FSE will prepare a Bill of Lading (BOL) for soil disposal at a disposal/reuse facility in Massachusetts. The BOL will include the results of soil disposal characterization sampling. FSE has assumed, per the LRA regulations contained in the Massachusetts Contingency Plan (MCP) at 340 CMR 40.0318, that no more than 100 cubic yards of soil will be excavated.

### **1.14 Oversight of Contaminated Soil Removal**

FSE has budgeted two days of onsite oversight of contaminated soil removal. An additional six confirmatory soil samples will be obtained from the open excavation after the contaminated soil has been removed, in order to establish that closure conditions have been achieved.

## **1.15 Limited Removal Action Report**

FSE will prepare a Limited Removal Action report that includes a site plan, photographs, laboratory certificates of analysis, Bill of Lading documentation, and text describing the sampling procedures and sample analysis results.

## **1.2 SOIL DISPOSAL CHARACTERIZATION**

### **1.21 Soil Sample Collection**

FSE will collect soil samples from soil stockpiles destined for offsite disposal/reuse for laboratory analyses. Number of samples to be collected is based upon 1 soil sample per 500 tons of soil/fill to be disposed at a landfill. It was assumed that less 1,500 tons of soil will require off-site disposal/reuse. Field screen soil samples for total volatile organic compounds (VOC) using a photoionization detector (PID). Based upon PID field screening, collect up to 3 soil samples representative of the soil stockpiles and submit for laboratory analysis for typical soil landfill disposal characterization.

### **1.22 Prepare Letter Report**

Prepare a letter report that describes the sampling procedures, presents the tabulated laboratory soil sample analysis results, and contains the laboratory reports and a site plan.

### **1.23 Field Observation**

Provide limited field observation during loading and/or transportation and disposal. One (1) day of field observation is included here. The purpose of the field observation is to coordinate with the site supervisor record keeping, compliance with appropriate regulation and requirements, and the progress of work.

The site supervisor will periodically communicate with FSE progress of excavation, transportation, and disposal. The site supervisor will maintain accurate logs for soil excavation, transportation, and disposal. Such logs will be provided to FSE at the end of the project for compliance reporting. The rate of work progress and schedule will also be maintained by the site supervisor.

#### **1.24 Soil Disposal Documentation**

Prepare Bill of Lading and related documentation for the selected soil receiving facility.

#### **2.0 SCHEDULE OF SERVICES**

FSE is prepared to commence work on this project upon receipt of written authorization to proceed.

#### **3.0 FEES FOR SERVICES**

For this project as defined in Article 1.0, "Scope of Services", compensation for UST closure Tasks 1.11 and 1.12 shall be the **Fixed Fee of Five Thousand Five Hundred Dollars (\$5,500)**.

For this project as defined in Article 1.0, "Scope of Services", the additional estimated compensation for OPTIONAL UST closure Tasks 1.13, 1.14 and 1.15 shall be the **Estimated Fee of Nine Thousand Two Hundred Dollars (\$9,200)**.

For this project as defined in Article 1.0, "Scope of Services", compensation for Task 1.2 Soil Disposal Characterization shall be the **Fixed Fee of Nine Thousand Seven Hundred Dollars (\$9,700)**.

The amounts will not be exceeded without prior written authorization from the client.

#### **4.0 BASIS OF PROPOSAL**

- (a) We have assumed that all existing site information will be made available.
- (b) We have assumed that any previous studies conducted on the site will be made available.
- (c) We have assumed that access to the site will be provided by client.
- (d) We understand that the UST removal contractor is being retained directly by the Client.

**UST Closure Proposal for  
Balmer Elementary School, Northbridge, MA**

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**5.0 AGREEMENT FOR PROFESSIONAL SERVICES - Attached herewith.**

Please sign this Agreement. Retain a copy for your files and return the other to us; the receipt of which shall constitute Notice-to-Proceed. If you have any questions, please do not hesitate to contact us. We look forward to working with you on this important project. Thank you for considering FS Engineers, Inc.

Very truly yours,

FS ENGINEERS, INC.



Digitally signed by Farooq Siddique  
DN: cn=Farooq Siddique, o=FS  
Engineers, Inc., ou,  
email=fsiddique@fsengrs.com,  
c=US  
Date: 2018.03.30 09:32:45 -04'00'

Farooq Siddique, PE, LSP  
Principal

AGREED AND ACCEPTED BY CLIENT:

Name \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_





Project Management

## Memorandum

To: W. Edward Balmer Elementary School Building Committee Date: 6/12/2019  
From: Joel G. Seeley Project No.: 17020  
Project: W. Edward Balmer Elementary School  
Re: Designer Amendment No. 18: Horticultural Soil Testing  
Distribution: School Building Committee (MF)

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### **DESIGNER AMENDMENT NO. 18: HORTICULTURAL SOIL TESTING SERVICES**

**FEE:** \$4,257.00

**REASON:** Provide Horticultural Soil Testing Services at the W. Edward Balmer Elementary School site.

**BUDGET AVAILABILITY:** This Amendment would be funded out of the Other Reimbursable Costs Budget, ProPay Code 0203-9900 which has the current balance of \$94,500.00.

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1000 Massachusetts Avenue  
Cambridge, MA 02138  
617.547.5400

[www.smma.com](http://www.smma.com)

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# **ATTACHMENT F**

## **CONTRACT FOR DESIGNER SERVICES**

### **AMENDMENT NO. 18**

**WHEREAS**, the Town of Northbridge (“Owner”) and Dore & Whittier Architects, Inc., (the “Designer”) (collectively, the “Parties”) entered into a Contract for Designer Services for the W. Edward Balmer Elementary School Project (Project Number 201502140001) at the W. Edward Balmer Elementary School on June 26, 2017 “Contract”; and

**WHEREAS**, effective as of June 12, 2019, the Parties wish to amend the Contract:

**NOW, THEREFORE**, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. The Owner hereby authorizes the Designer to perform services for the Design Development Phase, the Construction Phases, and the Final Completion Phase of the Project, pursuant to the terms and conditions set forth in the Contract, as amended.
2. For the performance of services required under the Contract, as amended, the Designer shall be compensated by the Owner in accordance with the following Fee for Basic Services:

**Fee for Basic Services:**

	<b>Original Contract</b>	<b>Prior Amendments</b>	<b>This Amendment</b>	<b>After this Amendment</b>
Feasibility Study Phase	\$200,000.00	\$ 141,803.50	\$ 0.00	\$ 341,803.50
Schematic Design Phase	\$225,000.00	\$ 4,950.00	\$ 0.00	\$ 229,950.00
Design Development Phase	\$ 0.00	\$1,959,679.00	\$ 0.00	\$ 1,959,679.00
Construction Document Phase	\$ 0.00	\$2,754,214.00	\$ 4,257.00	\$ 2,758,471.00
Bidding Phase	\$ 0.00	\$ 227,830.00	\$ 0.00	\$ 227,830.00
Construction Phase	\$ 0.00	\$2,252,218.00	\$ 0.00	\$ 2,252,218.00
Completion Phase	\$ 0.00	\$ 164,136.00	\$ 0.00	\$ 164,136.00
<b>Total Fee</b>	<b>\$425,000.00</b>	<b>\$7,488,660.50</b>	<b>\$ 4,257.00</b>	<b>\$7,934,087.50</b>

This Amendment is a result of: Provide Horticultural Soils Testing Services

MSBA ProPay 0203-9900

3. The Construction Budget shall be as follows:

Original Budget:	\$ <u>79,492,662.00</u>
Amended Budget	\$ <u>79,492,662.00</u>

4. The Project Schedule shall be as follows:

Original Schedule:	<u>December 20, 2021</u>
Amended Schedule	<u>December 20, 2021</u>

5. This Amendment contains all of the terms and conditions agreed upon by the Parties as amendments to the original Contract. No other understandings or representations, oral or otherwise, regarding amendments to the original Contract shall be deemed to exist or bind the Parties, and all other terms and conditions of the Contract remain in full force and effect.

IN WITNESS WHEREOF, the Owner, with the prior approval of the Authority, and the Designer have caused this Amendment to be executed by their respective authorized officers.

OWNER

Alicia Cannon  
(print name)  
Board of Selectmen, Town of Northbridge  
(print title)  
By \_\_\_\_\_  
(signature)  
Date June 12, 2019

DESIGNER

Lee P. Dore  
(print name)  
Principal / Vice President, Dore & Whittier Architects  
(print title)  
By \_\_\_\_\_  
(signature)  
Date June 12, 2019



DORE & WHITTIER ARCHITECTS, INC.

June 4, 2019

Mr. Joel Seeley, AIA  
COO, Executive Vice President  
Symmes Maini & McKee Associates Project Management  
1000 Massachusetts Avenue  
Cambridge, MA 02138

Project: Balmer Elementary School - #17-0759

Subject: ASR #18

Dear Joel,

At the request of the School Building Committee, we present this additional service request to perform Horticultural Soils testing services. The intent of this testing is to ascertain the loam topsoil composition so that amendments may be accurately specified for on-site topsoil re-use, and associated costs captured in the cost estimate.

In accordance with contract Article 8, please accept the following fee proposal for additional consulting services, for the lump sum fee amount as follows:

Loam Testing Services	LGCI, Inc.	\$3,870.00
<ul style="list-style-type: none"> <li>• Obtain (10) soil samples using UMass standard procedures</li> <li>• Package and Ship samples</li> <li>• Laboratory Testing at UMass Amherst</li> <li>• Forward results to Landscape Architect for interpretation and inclusion in project documents</li> </ul>		

In accordance with contract Article 9, Dore & Whittier Architects hereby submits a fee for coordination of these additional services in the amount of 10%, or \$387.00

TOTAL, ASR #18 \$4,257.00

Please see the attached **consultant's** proposal which details scope of services and schedule. Note that all other provisions of the prime contract remain in force.

Sincerely,

DORE & WHITTIER ARCHITECTS, INC.  
Architects • Project Manager

Lee P. Dore, Assoc, AIA, CSI, LEED AP, MCPPO  
Principal

cc. DWA Dist.; file.

ARCHITECTS  
PROJECT MANAGERS

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

212 Battery Street  
Burlington, VT 05401  
802.863.1428 ph  
802.863.6955

www.doreandwhittier.com

June 3, 2019

Tom Hengelsberg, AIA, LEED AP, NCARB, MCPPO  
Dore & Whittier Architects, Inc.  
212 Battery Street  
Burlington, VT 05401  
Phone: (802) 863-1428  
Mobile: (802) 238-9585  
E-mail: [thengelsberg@DoreandWhittier.com](mailto:thengelsberg@DoreandWhittier.com)

**Re: Proposal for Loam Testing  
Proposed W. Edward Balmer Elementary School  
Northbridge, Massachusetts  
LGCI Proposal No. 19054**

Dear Mr. Hengelsberg:

Lahlaf Geotechnical Consulting, Inc. (LGCI) appreciates the opportunity to submit this proposal to provide loam testing for the proposed W. Edward Balmer Elementary School in Northbridge, Massachusetts. Our proposal is based on information you provided to us on the phone on May 14, 2019.

The purpose of our services is to obtain samples of the topsoil at the site of the existing school and submit them for loam analyses.

### **Scope of Work**

1. Obtain Samples – We will provide an engineer to visit the site to obtain topsoil samples at ten (10) locations provided to us by you. We have budgeted one day for this task.
2. Package and Ship Samples – We will label, pack, and ship the samples to the UMass Soil and Plant Tissue Testing Lab in Amherst, Massachusetts.
3. Laboratory Tests – We will submit the samples for the following tests:
  - Routine Analysis, including pH, exchangeable acidity, Modified Morgan extractable nutrients (P, K, Ca, Mg, Fe, Mn, Zn, Cu, B, S), lead (Pb), and aluminum (Al), cation exchange capacity, and base saturation, as well as crop-specific lime and nutrient recommendations,
  - Organic Content,
  - Soluble Salts,
  - Soil Nitrate,
  - Comprehensive Particle Size Analysis and Grain-size Distribution Curve.

4. Lab Results – LGCI will forward the laboratory test results to you upon receipt from UMass. Our services do not include commenting on or interpreting the test results.

LGCI's scope of services does not include an environmental assessment for the presence or absence of wetlands, or analytical testing for hazardous or toxic materials in the soil, surface water, groundwater, or air, on or below or around this site. Any statements regarding odors, colors, or unusual or suspicious items or conditions are strictly for the information of the client.

Recommendations for unsupported slopes, stormwater management, erosion control, pavement design, and detailed cost or quantity estimates are not included in our scope of work.

### **Proposed Schedule**

LGCI will begin work upon receiving authorization in the form of a signed copy of this proposal. We will provide our field engineer to obtain the samples within one to two weeks of receiving the authorization to proceed. We will submit the results upon receiving them from UMass. The laboratory testing typically takes four (4) weeks to complete.

### **Project Fee**

We will perform our services for a lump sum of \$3,870.

Additional approved services will be performed on a time-and-expenses basis using rates of \$97/hour for a field engineer, \$107/hour for our geotechnical engineer, and \$153/hour for a senior geotechnical engineer. Expenses, if any, will be billed at cost plus 10 percent.

No services beyond those described above would be provided without your prior knowledge and approval. If site conditions or your needs require a change in the scope of work, we will prepare for your approval a change order request that summarizes the changes to the project scope and fee.

### ***Terms and Conditions***

We propose performing our services in general accordance with our agreement for this project dated June 26, 2017 and signed by Mr. Lee P. Dore of Dore and Whittier Architects, Inc. Your acceptance of this proposal by signing and returning one complete copy will form our agreement for these services and will serve as written authorization to proceed with the described scope of work.

LGCI trusts that the above proposal will be sufficient to meet your needs. If this proposal is acceptable, please sign and return a complete copy of this proposal to LGCI. If you have any questions, please call us at (978) 330-5912.

Sincerely,



**LAHLAF GEOTECHNICAL CONSULTING, INC.**



Abdelmadjid M. Lahlaf, Ph.D., P.E.  
Principal Engineer

Agreed to by (please type name): \_\_\_\_\_ on (date): \_\_\_\_\_

Company Name: \_\_\_\_\_

Signature: \_\_\_\_\_



June 10, 2019

Ms. Melissa Walker  
 Business Manager  
 Northbridge Public Schools  
 87 Linwood Avenue  
 Whitinsville, Massachusetts 01588

**Re: New W. Edward Balmer Elementary School**

**Whitinsville, Massachusetts**

Structural Peer Review Services Proposal

SMMA No. 17020

Dear Ms. Walker:

We are pleased to submit this proposal for the Owner's Structural Peer Review services for the new W. Edward Balmer Elementary School Project.

The Owner's Structural Peer Review is a requirement of the State Building Code and MSBA. We have requested proposals from three (3) companies that provide these services. The companies are:

1. Daigle Engineering
2. Souza True and Partners
3. RSV Associates

The proposal from RSV Associates dated June 6, 2019 is the most competitive. Their fee is \$3,200.00.

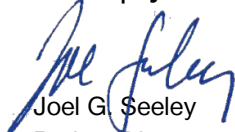
The Total Project Budget, ProPay Code 0102-1000, includes an allowance of Forty Thousand Dollars (\$40,000.00) for reimbursable and other services, which the Owner's Structural Peer Review will be applied to.

The cost for RSV Associates' services will be billed at our cost plus 10% in accordance with Article 10 of our Contract for a total fee of \$3,520.00.

I will call you to review.

Very truly yours,

**SMMA | Symmes Maini & McKee Associates**



Joel G. Seeley  
 Project Director

cc: contract file, Antone Dias, Sarah Traniello

enclosures: Proposals from Daigle Engineering, Souza True and Partners, RSV Associates

//P:\2017\17020\00-INFO\0.3 Contract\OPM Contract\OPM Amendments\Amendment No. 2 - Structural Peer Review\Structrural Peer Review Proposal.Doc

**SYMMES MAINI & McKEE ASSOCIATES**

1000 MASSACHUSETTS AVENUE

CAMBRIDGE, MASSACHUSETTS 02138

T. 617.547.5400 F. 800.648.4920

www.smma.com



**ATTACHMENT B****CONTRACT FOR PROJECT MANAGEMENT SERVICES  
AMENDMENT NO. 2**

**WHEREAS**, the Northbridge Public Schools ("Owner") and Symmes, Maini & McKee Associates, Inc. (SMMA), (the "Owner's Project Manager") (collectively, the "Parties") entered into a Contract for Project Management Services for the W. Edward Balmer Elementary School Project (Project Number 201502140001) at the W. Edward Balmer Elementary School on February 14, 2017 "Contract"; and

**WHEREAS**, effective as of June 12, 2019, the Parties wish to amend the Contract, as amended:

**NOW, THEREFORE**, in consideration of the promises and the mutual covenants contained in this Amendment, and other good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

1. The Owner hereby authorizes the Owner's Project Manager to perform services for the Design Development Phase, the Construction Phases, and the Final Completion Phase of the Project, pursuant to the terms and conditions set forth in the Contract, as amended.
2. For the performance of services required under the Contract, as amended, the Owner's Project Manager shall be compensated by the Owner in accordance with the following Fee for Basic Services:

<b>Fee for Basic Services:</b>	<b>Original Contract</b>	<b>Prior Amendments</b>	<b>This Amendment</b>	<b>After this Amendment</b>
Feasibility Study Phase	\$ 60,000.00	\$ 0.00	\$ 0.00	\$ 60,000.00
Schematic Design Phase	\$ 45,000.00	\$ 0.00	\$ 0.00	\$ 45,000.00
Design Development Phase		\$ 180,250.00	\$ 0.00	\$ 180,250.00
Construction Document Phase		\$ 250,025.00	\$ 3,250.00	\$ 253,275.00
Bidding Phase		\$ 95,050.00	\$ 0.00	\$ 95,050.00
Construction Phase		\$1,912,599.00	\$ 0.00	\$ 1,912,599.00
Completion Phase		\$ 120,080.00	\$ 0.00	\$ 120,080.00
<b>Total Fee</b>	<b>\$105,000.00</b>	<b>\$2,558,004.00</b>	<b>\$ 3,250.00</b>	<b>\$2,666,254.00</b>

This Amendment is a result of: Provide Structural Peer Review Services. Work to be performed under ProPay Code 0102-0000.

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3. The Construction Budget shall be as follows:

Original Budget:	<u>\$79,492,662.00</u>
Amended Budget	<u>\$79,492,662.00</u>

4. The Project Schedule shall be as follows:

Original Schedule:	<u>December 20, 2021</u>
Amended Schedule	<u>December 20, 2021</u>

5. These subconsultant services are being provided through the Owner's Project Manager for the convenience of the Owner. The Owner's Project Manager assumes no liability for the services of such subconsultant.

6. This Amendment contains all of the terms and conditions agreed upon by the Parties as amendments to the original Contract, as amended. No other understandings or representations, oral or otherwise, regarding amendments to the original Contract, as amended, shall be deemed to exist or bind the Parties, and all other terms and conditions of the Contract, as amended, remain in full force and effect.

IN WITNESS WHEREOF, the Owner, with the prior approval of the Authority, and the Owner's Project Manager have caused this Amendment to be executed by their respective authorized officers.

**OWNER**

Alicia Cannon  
(print name)

Board of Selectmen, Town of Northbridge  
(print title)

By \_\_\_\_\_  
(signature)

Date June 12, 2019

**OWNER'S PROJECT MANAGER**

Joel G. Seeley  
(print name)

Project Director, Symmes Maini & McKee Associates, Inc. (SMMA)  
(print title)

By \_\_\_\_\_  
(signature)

Date June 12, 2019

---

10 MAZZEO DRIVE, SUITE 201-G,RANDOLPH,MA02368\*PHONE (781)963-5786

June 6, 2019

Joel G. Seeley  
Project Director  
Symmes Maini & Mckee Associates, Inc.  
1000 Massachusetts Ave.  
Cambridge, MA 02138

**RE : New W. Edward Balmer Elementary School  
Whitinsville, MA  
Independent Structural Engineer Review**

Dear Mr. Seeley :

Attached please find a copy of proposal for performing structural peer review for the above referenced project, affidavit for current registered professional engineer, resume, and partial list projects for which structural peer review services were provided. If we are selected to perform structural review for this project, we will provide you a copy of professional liability insurance.

Please call if you have any questions.

Yours truly,

Victor Verma, P.E., Principal  
RSV ASSOCIATES

**RSV ASSOCIATES  
CONSULTING ENGINEERS**

---

10 MAZZEO DRIVE, SUITE 201-G,RANDOLPH,MA02368\*PHONE (781)963-5786

June 6, 2019

Page : 1 of 2

Joel G. Seeley  
Project Manager  
Symmes Maini & Mckee Associates, Inc.  
1000 Massachusetts Ave.  
Cambridge, MA 02138

**RE: New W. Edward Balmer Elementary School  
Whitenville, MA  
Independent Structural Engineer Review**

Dear Mr. Seeley:

We are pleased to provide the following proposal for structural peer review services for the above referenced project. We understand the scope of work to include the following:

1. Review all structural related specifications.
2. Review design criteria and assumptions used in design.
3. Review whether the Design Loads ( Gravity and Lateral ) used are in agreement with Governing Building Code.
4. Check if the organization of the structure is conceptually correct including structural load path.
5. Review Geotechnical report and its implementations in foundation design.
6. Review basic assumptions used for distributing the Lateral loads to main Lateral Resistance Systems.
7. Perform independent calculations for a typical bay, to investigate beams, columns, reinforced masonry walls, braced frames foundations design and other major structural members.
8. Meet with the structural Engineer of Record, as may be required in performance of the review.

Our fee for the scope described in items 1 thru 8 ( page 1 ) , shall be a lump sum of \$ 3,200.00 included in the lump sum are attending meetings, travel time, expenses to review the comments on the structural design with structural engineer of record and writing a detail report after peer review is completed.

Should the term of this be acceptable, to you please return a signed copy formally authorizing to proceed with the work.

Yours truly,

Victor Verma, P.E., Principal  
RSV ASSOCIATES

---

Symmés Maini & Mckess Assoc, Inc.

CC : VV/DW

# RSV ASSOCIATES

## CONSULTING ENGINEERS

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10 MAZZEO DRIVE, SUITE 201-G,RANDOLPH,MA02368\*PHONE (781)963-5786\*FAX (781)843-3752

Victor Verma

Page : 1 of 2

Professional Education	B.S.C.E M.S.C.E.	Kansas State University University of Michigan
Professional Registration	Massachusetts New York	
Professional Membership	American Institute of Steel Construction Boston Society of Civil Engineers	
Professional Experience	July 1996 to Present RSV Associates. Randolph, MA. Working as structural consultant on new and renovation projects, office buildings, schools, condos, feasibility studies, field evaluation, reports, value engineering.	
	March 1995 to July 1996 Summer Schein Arch. / Engineers Cambridge, MA. Job Title : Structural Engineer Responsibilities involve conceptual design, final design of retail shopping center, schools & retail stores modification of exiting foundation for additional loads, coordinated all work with architect's, checked structural shop drawings, cooling tower support, written field inspection report.	
	April 1993 to March 1995 Worked as independent structural consultants on Retail stores, schools, commercial buildings, design framing & foundation, peer review , taken field inspection trips, designed single span bridges, foundation for signs, sheet piling design, renovation of existing building.	

Nov 1989 to Jan. 1993

Badgers Engineers

Cambridge, MA.

Job Title: Structural Engineer

Responsibilities involve design of industrial buildings, building & water treatment plants, mat design on piles, moment & braced frames analysis & design, structural framing, machine foundation design, checked design & shop drawings.

April 1984 to Nov. 1989

Macdonald Assoc.

Braintree, MA.

Job Title : Structural Engineer

Responsibilities include conceptual design, final design for mid high rise commercial buildings, schools, apartments ,masonry walls design for lateral loads, flat slab analysis & design, composite beams design, resolved all field related problems.

June 1975 to April 1984.

Stone & Webster Engineering Corp.

Boston, MA.

Job Title : Structural Engineer

Responsibilities involve design of structural framing for various buildings in nuclear power Plants, checked steel & concrete shop drawings, truss bracing design, column base plates design, resolved field related problems.

PARTIAL LIST OF PROJECTS FOR WHICH STRUCTURAL PEER REVIEW SERVICES WERE PROVIDED

1. Middleborough High School, Middleborough, MA
2. South High Community School , Worcester, MA
3. Hildreth Elementary School, Harvard, MA
4. Minutemen Regional Voc Tech School, Lexington, MA
5. Hingham Middle School, Hingham, MA





June 10, 2019

Joel G. Seeley  
Symmes Maini & McKee Associates, Inc.  
1000 Massachusetts Avenue  
Cambridge, MA 02138

RE: **W. EDWARD BALMER ELEMENTARY SCHOOL**  
INDEPENDENT STRUCTURAL PEER REVIEW PROPOSAL  
21 CRESCENT STREET ~ WHITINSVILLE, MA 01588  
(DEI Project No. D4085)

Dear Mr. Seeley:

Per your request, we are submitting this proposal to you for conducting a "peer review" of the structural design for the above reference project in Whitinsville, MA. This proposal is in response to the RFP you submitted.

## GENERAL CONDITIONS

The project consists of new construction, which includes a new three-story building with approximately 171,530 square feet. The new W. Edward Balmer Elementary School will contain a gymnasium, kitchen and cafeteria, media center, three stories of classrooms, administrative offices, and support spaces. The proposed structure would bear on reinforced concrete spread footings; and, the perimeter foundation walls would bear on continuous reinforced concrete strip footings extending at least 4'-0" below grade. The foundations will be conventional shallow foundations with first floor construction slab on grade. The second and third floors will consist of concrete slabs and composite steel framing. The roof framing will consist of metal roof deck on steel beams, except in gymnasium where steel joists will be used, spanning between CMU bearing walls. The building will be primarily braced by concentrically loaded steel bracing members.

## OBJECTIVE OF REVIEW

The objective of this review is to determine if, generally, the structural plans and specifications for the above referenced project are in compliance with the structural requirements of the building code. This objective is limited to the extent necessary to render an opinion regarding the stability and integrity of the primary structural system of the building per the Massachusetts State Building Code's Peer Review criteria described below. This review does not address other structural systems nor does it address serviceability issues.

Daigle Engineers, Inc.  
1 East River Place  
Methuen, MA 01844-3818

978 682 1748  
978 682 6421 fax

www.daigleengineers.com.com

Over 35 Years in Business ~ Est. 1979

DEI • 6.10.19 • D4085-P-061019.docx • Page 1 of 6

Initialed by: \_\_\_\_\_



Our review will include performing the following services:

- 1) Check to assure that design loads conform to the Code;
- 2) Check other structural design criteria and assumptions conform to the Code and with accepted engineering practice;
- 3) Confirm that the structural design incorporates pertinent results and recommendations of geotechnical investigations;
- 4) Check that the organization of the structure is conceptually correct; and,
- 5) Make independent calculations for a representative fraction of systems, member, and details to check their adequacy. The number of representative systems, members, and details shall be as we deem necessary to form a basis for our conclusions.

---

### **RESPONSIBILITY**

At no time shall it be construed that the Structural Engineer Project Peer Reviewer (Daigle Engineers, Inc.) through their project peer review services, is supplanting, or joining with, the SER (Structural Engineer of Record) in his or her professional responsibility for the design of the Primary Structural System, or any other structural aspects of the project.

---

### **SCOPE OF SERVICES**

Our services under this contract would entail conducting a structural peer review in accordance with the Ninth Edition of the Massachusetts State Building Code, 780 CMR 105.9, using the review requirements described below.

During our review we will communicate with the SER as required to have any questions answered and concerns addressed with regard to our review. A copy of these issues will be forwarded to the SER for record purposes. Typically, this process results in either us accepting the SER's justification through supporting documentation or the SER adjusting the construction documents to accommodate our concerns.

Any changes to the construction documents that are deemed necessary shall be submitted to our office via a stamped letter by the SER including any applicable sketches or copies of revised details. If significant adjustments are required, a revised set of structural drawings would have to be resubmitted to us for verification that all issues noted have been properly addressed. Said revised drawings shall bear a revision date, along with the "wet seal" and original signature of the SER so that our final letter of acceptance can be issued with explicit reference being made to the approved drawings. If revisions are to be made, we will require that they be submitted to our office prior to issuing our final report.

Upon completion of our review and, if required, receipt of substantiating documentation of changes made by the SER, we will then issue our report. The report will state our professional opinion that the structural design is in compliance with Building Code requirements. If, on the other hand,

there are issues which cannot be ratified, we will note them in our report and arbitration may then be required. Any time associated with having to go to arbitration will be an additional charge to our contract.

Design delegated items such as pre-engineered trusses, stairs, curtain walls, skylights, specialty or deep foundations, steel connections, ground improvement systems, etc. will not be included in our peer review. Peer review of these items is assumed to be provided by the SER. Our final peer review letter would include a statement in this regard.

### **INFORMATION REQUIREMENTS**

The following information will be needed for us to commence with this project:

- Signed authorization from your office to proceed.
- Current geotechnical report for this specific project.
- Full size hard copies and PDF's of proposed Structural drawings. Drawings must be essentially complete and coordinated accordingly for each peer review phase so as not to hinder our review. If drawings are incomplete or poorly coordinated, we will return them without review or seek additional compensation for having to provide services in a fragmented manner.
- Full size hard copies and PDF's of select proposed Architectural drawings (basic floor plans, roof plans, elevations, sections and typical details).
- Existing and proposed site grading plan.
- Proposed structural specifications (hard copy).

Structural calculations may be required upon request. All drawings and specifications/reports shall be submitted to our office in hard copy and electronic (PDF) form as noted prior to initiating our review efforts.

### **FEE FOR SERVICES**

Our fee for conducting this review will be **\$6,725.00** (Six thousand, seven hundred and twenty-five dollars). This fee assumes DEI's involvement with the project will be completed by July 30, 2019, otherwise our fee may need to be adjusted.

Our proposal assumes that the structure (depicted on the construction documents submitted for peer review) is in substantial compliance with the building code and engineering standards consistent with buildings of this type in this geographic area. Discovering, documenting, discussing and mitigating an excessive number of deficiencies may require much more effort than what is included in a competitive proposal. Therefore, additional fees may result to accommodate such extra services. We will advise you of any extra services before we proceed with such services.



Payment for invoice(s) shall be received by this office within 15 days from our invoice date. Invoices extending beyond 45 days may result in a monthly late fee of 1.5% until payment is received and a possible suspension of services until payment is received. In the event any portion or all of an account remains unpaid 90 days after billing, Daigle Engineers, Inc (DEI) will pursue collection action for amount past due. DEI will be entitled to recover, in addition to the past due amounts, all court or other collection costs actually incurred by DEI or DEI's recovery agency and associated attorney's fees.

**LIABILITY**

DEI will furnish our standard insurance certificates for general and professional liability upon request. The Client agrees that DEI's total liability to the Client and the total liability to the Client of DEI's principals, officers, agents, and employees, for any and all injuries, claims, losses, expenses, or damages whatsoever, including attorney's fees, arising out of or in any way related to the Project or this Contract from any cause or causes, including, but not limited to, DEI's negligence, errors, omissions, strict liability, breach of contract, or breach of warranty shall not exceed DEI's total fee under this agreement or \$15,000, whichever is greater. In no event shall DEI be liable to Client for any indirect, incidental, special or consequential damages whatsoever (including but not limited to lost profits or interruption of business) arising out of or related to the services provided under the Agreement.

**LITIGATION**

All costs and labor associated with compliance with any subpoena or other official request for documents, for testimony in a court of law (other than in connection with expert witness services), or for any other purpose relating to work performed by DEI in connection with work performed for the Client, shall be paid by the Client as a direct expense (actual cost plus 15%), based on DEI's standard rate schedule. Our charges to you for time spent in court, arbitration, hearings, depositions, or similar proceeding are 1.5 time the listed rates. The laws of the of the State of Massachusetts shall govern the validity and interpretation of this agreement.

\* \* \* \* \*



If this proposal is acceptable to you, please initial each page, sign the "Authorization to Proceed" section and return a copy of this proposal.

Should you have any questions with respect to the contents of this proposal, please do not hesitate to contact our office. We thank you for this opportunity to be of service to you and look forward to working with you on this project.

Very truly,

DAIGLE ENGINEERS INC.

*Jonathan M Longchamp PE SECB*

Jonathan M Longchamp PE, SECB (ext. 117)  
Principal/President  
jlongchamp@daigleengineers.com

- encl.: DEI's Standard Rate Schedule (1 page)
- DEI Resume (2 pages)
- Key Staff Resumes (2 pages)
- JML PE Affidavit (1 page)
- DEI Sample Insurance Certificate (1 page)
- Representative Peer Review Projects (1 page)

JML/dei

<b>AUTHORIZATION TO PROCEED</b>
Company Name: (printed) _____
Authorized Agent's Name: (printed) _____
Agent's Signature: _____
Date: _____



Daigle Engineers, Inc.

**Standard Hourly Rate Schedule**

(Effective October 01, 2018. Scheduled to change without notice)

<u>STAFF TYPE</u>	<u>FEE</u>
Principal	\$205.00
Senior Structural Engineer	\$180.00
Structural Engineer	\$150.00
EIT III	\$135.00
EIT II	\$125.00
EIT I	\$115.00
Engineer Intern	\$70.00
Business Manager	\$80.00
Reimb. Expenses	Cost plus 15%

**JONATHAN M. LONGCHAMP, PE, SECB**  
PRINCIPAL/PRESIDENT  
DAIGLE ENGINEERS, INC.  
978-682-1748 EXT. 117  
jlongchamp@daigleengineers.com

**EDUCATION**

University of Lowell | Bachelor of Science – Civil Engineering (Cum Laude) 1986  
University of Lowell | Master of Science – Civil Engineering (Structural) 1987

**REGISTRATIONS AND CERTIFICATIONS**

Professional Engineer – CT, ME, MD, MA, NH, PA, RI, NY  
Structural Engineering Certification Board

**PROFESSIONAL EXPERIENCE**

Daigle Engineers, Inc. | Principal/Structural Engineer (1987 – Present)

Duties: Perform structural analysis and design of industrial, municipal, commercial, and residential structures, failure analysis investigations, project and personnel management.

Representative Projects:

- o Andover Public Safety Complex – Structural Investigation (Andover, MA)
- o Atkinson Country Club – Function Facility/Club House/Cart Barn (Atkinson, NH)
- o Boston College Residences – Independent Design Review (Brighton, MA)
- o Hanscom AFB/Fort Devens – Various Roof Projects (Various Locations)
- o Heritage Place – Structural Due Diligence Investigation (Lawrence, MA)
- o Jack Satter House – Framed Slab Selective Removal & Replacement (Revere, MA)
- o Lawrence General Hospital – General Renovations (Lawrence, MA)
- o Malden Mills – Design of Upgrades to Mill Buildings (Lawrence, MA)
- o Nashua High School – Independent Structural Peer Review (Nashua, NH)
- o Phillips Square Condominiums – Renovations & Addition (Boston, MA)
- o TJX/Marshalls Dist. Center – Mezzanine Reinforcing & Overlay (Woburn, MA)
- o Winchendon School – New Dining Hall (Winchendon, MA)
- o Wheelabrator Technologies – Repairs/Alterations (Resource Recovery Facilities)

**CONTINUING EDUCATION**

Various Seminars including: Sustainable Design/Green Building SE Role, Building Info. Modeling/Integrated Project Delivery, Deer Island Renewable Energy Initiatives, Our Aging Infrastructure Evaluation, Repair & Rehabilitation, Structural Provisions 7<sup>th</sup> Edition MA Building Code, Archaic/Historic Masonry Structures, Ethics and Engineers, Non-Destructive Testing and Evaluation.

**PROFESSIONAL MEMBERSHIPS**

American Society of Civil Engineers	Boston Association of Structural Engineers
American Institute of Steel Construction	Chi Epsilon National Honor Society
Structural Engineers Association of MA	Tau Beta Pi Engineering Honor Society
Structural Engineers of NH	

**PUBLICATIONS**

Contributor: Guidelines for the Structural Provisions for the Repair, Alteration, Addition and Change of Use of Existing Buildings for Compliance with the 6<sup>th</sup> Edition of the Massachusetts State Building Code. 2002 Boston Association of Structural Engineers, Boston, MA.

**Representative Peer Review Projects**

Nashua High School South – Nashua, NH (369,000 sq. ft.)

Winchester High School – Winchester, MA (288,000 sq. ft.)

Bancroft Elementary School – Andover, MA (107,000 sq. ft.)

Glover Elementary School – Marblehead, MA (79,000 sq. ft.)

Kipp Academy – Lynn, MA (68,000 sq. ft.)

Boston College Residences – Chestnut Hill, MA (50,000 sq. ft.)

Paul Revere Elementary School – Revere, MA (50,000 sq. ft.)

CW Morey Elementary School – Lowell, MA (40,000 sq. ft.)

Fenn School – Concord, MA (20,000 sq. ft.)





**SOUZA, TRUE**  
AND PARTNERS, INC.  
STRUCTURAL ENGINEERS

TERRY A. LOUDERBACK, PE  
JEROME A. YURKOSKI, PE  
LISA A. BOHLIN, PE  
TODD P. BLAKE, PE, SECB

**June 3, 2019**

**Symmes Maini & McKee Associates, Inc.**  
1000 Massachusetts Avenue  
Cambridge, MA 02138

**Attention:** Mr. Joel G. Seeley

**Reference:** W. Edward Balmer Elementary School  
Structural Peer Review  
Whitinsville, MA

**Dear Mr. Seeley:**

In response to your request for a fee proposal, we would be pleased to offer our services as your structural engineering consultant to perform a structural peer review of the structural design documents of the new W. Edward Balmer Elementary School located in Whitinsville, MA in accordance with the 9<sup>th</sup> edition of the Massachusetts State Building Code. We understand that the project consists of the following:

- A new 3-story structure which is a total of approximately 171,530 square feet.
- The foundation will be a conventional soil supported foundation system on improved soils.
- The primary structural framing system is a composite steel system with steel wide flange beams and columns.
- The Gymnasium will be constructed with long span open web steel joists.
- Other than at the Gymnasium where there will be 12" CMU walls, the lateral load resisting system will primarily be resisted with steel braced frames.
- Our review will be based on the "Progress Foundation and Building Structure Package" dated June 18, 2019.
- Our final comments and letter will be on July 16, 2019.
- The final drawings will be issued on July 30, 2019. However, our review will occur prior to these drawings being issued. We will only review this submission to verify our comments, if any, are incorporated in the final set.

Our structural review would follow the requirements in accordance with the guidance document found at [www.mass.gov/dps](http://www.mass.gov/dps) with excerpts indicated below:

Mr. Joel G. Seeley

W. Edward Balmer Elementary School – Structural Peer Review Proposal

June 3, 2019

Page 2

## **INDEPENDENT STRUCTURAL ENGINEERING REVIEW GUIDANCE**

***The purpose of this file is to provide guidance to those performing an independent structural engineering review in accordance with the building code (Code), specifically Section 780 CMR 105.9.***

**Primary Structure:** For the purposes of the independent structural engineering review required in 780 CMR 105.9, the primary structure shall be defined as the structural frame, the load supporting parts of floors, roofs, and walls, and the foundations. Cladding, cladding framing, stairs, equipment supports, ceiling supports, non-load bearing partitions, and railings are excluded from this definition of primary structure.

**Reviewing Engineer Qualifications:** The reviewing engineer shall be engaged by the owner and shall be a Massachusetts registered professional engineer with structural design training and experience on structures similar to that covered by the building permit application. The engineer shall be impartial, and independent of the architect of record, structural engineer of record, and contractors and suppliers involved with the structure.

**Review Criteria:** The reviewing engineer shall review the plans and specifications submitted with the building permit application for compliance with the structural and foundation design provisions of the Code including the following tasks:

1. Check to assure that design loads conform to the Code;
2. Check that other design criteria and assumptions conform to the Code and with accepted engineering practice;
3. Confirm that the structural design incorporates pertinent results and recommendations of geotechnical and other engineering investigations.
4. Check that the organization of the structure is conceptually correct; and
5. Make independent calculations for a representative fraction of systems, members, and details to check their adequacy. The number of representative systems, members, and details shall be sufficient to form a basis for the reviewer's conclusions.

**Review of Structural Calculations:** The structural calculations prepared by the structural engineer of record shall be submitted to the reviewing engineer, upon request, for reference only. The reviewing engineer is not obligated to review or check these calculations. The structural engineer shall also provide a statement with the design criteria and design assumptions if they are not shown on the drawings or in the calculations.



**Mr. Joel G. Seeley**

**W. Edward Balmer Elementary School – Structural Peer Review Proposal**

June 3, 2019

Page 4

Please understand that while we request copies of the geotechnical report and architectural design documents, these documents will only be used for reference. We will not perform a peer review on any portion of the geotechnical recommendations nor any portion of the architectural scope.

Any additional structural engineering services, if any, (beyond the general scope of this proposal), which is highly unlikely, will be billed separately on an hourly rate basis in accordance with our following current billing rates:

Senior Principals	\$ 225.00 per hour
Principals	\$ 190.00 per hour
Associates	\$ 160.00 per hour
Engineers	\$ 145.00 per hour
CAD Operators	\$ 95.00 per hour

Please note that additional services, if necessary, will only be executed following written authorization from you.


We thank you for considering and requesting a proposal from Souza, True and Partners, Inc. for this peer review project. Kindly countersign and return the enclosed copy of this letter, if this proposal is acceptable to you.

Please contact me if you have any questions or if you require additional information.

**Sincerely,**

**SOUZA, TRUE AND PARTNERS, INC.**

**SM&M Associates, Inc.**



---

**Todd P. Blake, P.E., SECB**  
Principal

---

**Authorized Signature**



**SOUZA, TRUE  
AND PARTNERS, INC.**  
STRUCTURAL ENGINEERS

**PRINCIPAL**

**EXPERIENCE**

*Mr. Blake has experience encompassing a wide variety of building issues, including traditional structural engineering design for new construction with extensive experience in industrial, high-tech, health care and educational facilities. He is experienced in renovation structural engineering projects with an emphasis on the modification and design of high-tech and industrial buildings for both occupancy and load criteria as well as seismic retrofit of existing buildings. He excels in team collaboration and attention to detail.*

**EDUCATION**

- M. C. E. Masters of Civil Engineering, Tufts University, MA 2004*
- B. C. E. Georgia Institute of Technology, Atlanta, GA 1996*

**PROFESSIONAL**

- 2012 Principal  
Souza, True and Partners, Inc.  
Waltham, Massachusetts*
- 2007 Associate  
Souza, True and Partners, Inc.  
Watertown, Massachusetts*
- 2002 Senior Engineer  
Souza, True and Partners, Inc.  
Watertown, Massachusetts*
- 2000 Thornton-Tomasetti Group  
Boston, Massachusetts*
- 1997 Willett Engineering Company  
Tucker, Georgia*
- 1996 Frey Moss Structures  
Conyers, Georgia*

**REGISTERED PROFESSIONAL ENGINEER**

- Massachusetts #43143*
- Georgia #26657*
- Maine #9909*

**PROFESSIONAL SOCIETIES**

- Member- American Concrete institute*
- Member- American Institute of Steel Construction*
- Member- American Society of Civil Engineers*





## **REPRESENTATIVE LISTING OF INDEPENDENT STRUCTURAL ENGINEERING REVIEWS**

### **201 Brookline Avenue, Boston, Massachusetts**

*Second engineering review of contract drawings and specifications.  
Review Performed For: Samuels & Associates*

### **1 Congress Street, Boston, Massachusetts**

*Second engineering review of contract drawings and specifications.  
Review Performed For: HYM Investment Group*

### **250 Davies Street, Somerville, Massachusetts**

*Second engineering review of contract drawings and specifications.  
Review Performed For: Divco Wets*

### **Dr. Martin Luther King, Jr. School, Cambridge, Massachusetts**

*Second engineering review of contract drawings and specifications.  
Review Performed For: W.T Rich Company, Inc.*

### **Zervas Elementary School, Newton, Massachusetts**

*Second engineering review of contract drawings and specifications.  
Review Performed For: W.T Rich Company, Inc.*

### **69 HICKORY DRIVE, Waltham, Massachusetts**

*Second engineering review of contract drawings and specifications.  
Review Performed For: Dacey & Dacey, P.C.*



SOUZA, TRUE

AND PARTNERS, INC.

STRUCTURAL ENGINEERS

**PENTUCKET JUNIOR HIGH SCHOOL, Pentucket, Massachusetts**

*Second engineering review of contract drawings and specifications.  
Review Performed For: Mount Vernon Group*

**ADDITION AND RENOVATION TO FULTON HALL, WALLACE E. CARROLL SCHOOL OF MANAGEMENT, BOSTON COLLEGE, Chestnut Hill, Massachusetts**

*Second engineering review of contract drawings and specifications.  
Review Performed For: Boston College*

**AMBULATORY SURGICAL CENTER, Springfield, Massachusetts**

*Second engineering review of contract drawings and specifications.  
Review Performed For: Baystate Medical Center*

**GREAT OAK ELEMENTARY SCHOOL, Danvers, Massachusetts**

*Second engineering review of contract drawings and specifications.  
Review Performed For: Town of Danvers*

**BOSE CORPORATION, Framingham, Massachusetts**

*Second engineering review of contract drawings and specifications.  
Review Performed For: Bose Corporation*

**ADDITION TO WHITEHEAD INSTITUTE, Cambridge, Massachusetts**

*Second engineering review of contract drawings and specifications.  
Review Performed For: The Whitehead Institute*

**HIGHLAND ELEMENTARY SCHOOL, Additions and Renovations, Danvers, Massachusetts**

*Second engineering review of contract drawings and specifications.  
Review Performed For: Town of Danvers*



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SOUZA, TRUE

AND PARTNERS, INC.

STRUCTURAL ENGINEERS

**BUILDING 104, CHARLESTOWN NAVY YARD**, Charlestown, Massachusetts

*Second engineering review of contract drawings and specifications.*

*Review Performed For: William Rawn Associates*

**NEW ENGLAND MEDICAL CENTER I-C PROJECT**, Boston, Massachusetts

*Second engineering review of contract drawings and specifications.*

*Review Performed For: New England Medical Center*

**TALBOT' STORE**, Winter Park, Florida

*Second engineering review of contract drawings and specifications.*

*Review Performed For: Aberjona Engineering*

**STAPLES OUTLET STORE**, Columbia, Maryland

*Second engineering review of contract drawings and specifications.*

*Review Performed For: Aberjona Engineering*

**GROSSMAN'S LUMBER**, Scranton, Pennsylvania

*Second engineering review of contract drawings and specifications.*

*Review Performed For: Aberjona Engineering*

**EAST BOSTON MAINTENANCE FACILITY**, East Boston, Massachusetts

*Second engineering review of contract drawings and specifications.*

*Review Performed For: Boston Public Facilities Department*

**JOSLIN DIABETES CENTER, RESEARCH AND CLINIC FACILITY EXPANSION**,  
Boston, Massachusetts

*Second engineering review of contract drawings and specifications.*

*Review Performed For: Joslin Diabetes Center*



	DD SUBMISSION 3/18/19		60% CD			60% CD			Delta Fontaine to PM&C
	Fontaine		Fontaine 6/7/19		Delta from DD	PM&C 6/7/19		Delta from DD	
	SF	167,352	167,352			167,352			
<b>Building</b>									
<b>Foundations</b>									
standard	\$ 1,346,053	\$8	\$ 1,455,051	\$9	\$108,998	\$ 1,333,338	\$8	-\$12,715	\$ 121,713
slab on grade	\$ 1,917,005	\$11	\$ 1,895,707	\$11	-\$21,298	\$ 1,933,089	\$12	\$16,084	\$ (37,382)
<b>Superstructure</b>									
upper floor	\$ 3,427,556	\$20	\$ 4,277,072	\$26	\$849,516	\$ 4,445,809	\$27	\$1,018,253	\$ (168,737)
roof structure	\$ 3,246,148	\$19	\$ 2,523,765	\$15	-\$722,383	\$ 2,238,594	\$13	-\$1,007,554	\$ 285,171
<b>Exterior Closure</b>									
exterior walls	\$ 7,623,807	\$46	\$ 7,716,946	\$46	\$93,139	\$ 7,688,061	\$46	\$64,254	\$ 28,885
windows	\$ 2,056,705	\$12	\$ 2,129,522	\$13	\$72,817	\$ 2,095,992	\$13	\$39,287	\$ 33,530
doors	\$ 178,430	\$1	\$ 170,093	\$1	-\$8,337	\$ 175,070	\$1	-\$3,360	\$ (4,977)
<b>Roofing</b>	\$ 2,287,114	\$14	\$ 2,214,823	\$13	-\$72,291	\$ 2,219,207	\$13	-\$67,907	\$ (4,384)
<b>Interior Construction</b>									
partitions	\$ 3,672,726	\$22	\$ 3,876,103	\$23	\$203,377	\$ 3,716,656	\$22	\$43,930	\$ 159,447
doors	\$ 1,231,881	\$7	\$ 1,285,209	\$8	\$53,328	\$ 1,275,274	\$8	\$43,393	\$ 9,935
millwork	\$ 1,438,295	\$9	\$ 1,904,599	\$11	\$466,304	\$ 2,071,964	\$12	\$633,669	\$ (167,365)
<b>Staircases</b>	\$ 521,026	\$3	\$ 622,676	\$4	\$101,650	\$ 533,762	\$3	\$12,736	\$ 88,914
<b>Interior Finishes</b>									
wall finishes	\$ 815,629	\$5	\$ 959,644	\$6	\$144,015	\$ 913,999	\$5	\$98,370	\$ 45,645
floor finishes	\$ 1,498,152	\$9	\$ 1,496,250	\$9	-\$1,902	\$ 1,409,851	\$8	-\$88,301	\$ 86,399
ceiling finishes	\$ 1,399,114	\$8	\$ 1,342,001	\$8	-\$57,113	\$ 1,448,727	\$9	\$49,613	\$ (106,726)
<b>Conveying Systems</b>	\$ 159,153	\$1	\$ 159,153	\$1	\$0	\$ 152,950	\$1	-\$6,203	\$ 6,203
<b>Plumbing</b>	\$ 1,774,949	\$11	\$ 2,243,688	\$13	\$468,739	\$ 2,311,454	\$14	\$536,505	\$ (67,766)
<b>HVAC</b>	\$ 6,837,481	\$41	\$ 7,182,509	\$43	\$345,028	\$ 7,105,214	\$42	\$267,733	\$ 77,295
<b>Fire Protection</b>	\$ 824,699	\$5	\$ 922,977	\$6	\$98,278	\$ 923,770	\$6	\$99,071	\$ (793)
<b>Electrical</b>	\$ 5,548,366	\$33	\$ 5,156,457	\$31	-\$391,909	\$ 5,197,730	\$31	-\$350,636	\$ (41,273)
<b>Equipment</b>	\$ 742,130	\$4	\$ 753,435	\$5	\$11,305	\$ 733,654	\$4	-\$8,476	\$ 19,781
<b>Furnishings</b>	\$ 2,221,405	\$13	\$ 2,263,471	\$14	\$42,066	\$ 2,296,196	\$14	\$74,791	\$ (32,725)
<b>Building HazMat</b>	\$ 1,025,442		\$ 1,088,926	\$7	\$63,484	\$ 1,088,926		\$63,484	\$ -
<b>Building Demolition</b>	\$ 557,000		\$ 539,033		-\$17,967	\$ 503,097		-\$53,903	\$ 35,936
<b>Building Trade Cost</b>	<b>\$ 52,350,266</b>	<b>\$313</b>	<b>\$ 54,179,110</b>	<b>\$324</b>	<b>\$1,828,844</b>	<b>\$ 53,812,384</b>	<b>\$322</b>	<b>\$1,462,118</b>	
<b>Sitework</b>									
Site Preparation	\$ 1,713,218		\$ 2,061,834		\$348,616	\$ 2,061,834		\$348,616	\$ -
Site Improvements	\$ 5,159,548		\$ 5,298,035		\$138,487	\$ 5,096,943		-\$62,605	\$ 201,092
Mechanical Utilities	\$ 3,391,151		\$ 3,188,449		-\$202,702	\$ 3,223,429		-\$167,722	\$ (34,980)
Electrical Utilities	\$ 708,611		\$ 709,616		\$1,005	\$ 672,100		-\$36,511	\$ 37,516
<b>Site Trade Cost</b>	<b>\$ 10,972,528</b>		<b>\$ 11,257,934</b>		<b>\$285,406</b>	<b>\$ 11,054,306</b>		<b>\$81,778</b>	
<b>Total Trade Cost</b>	<b>\$ 63,322,794</b>		<b>\$ 65,437,044</b>			<b>\$ 64,866,690</b>			
<b>General Conditions</b>	\$ 5,364,384		\$ 5,364,384		\$0	\$ 5,364,384		\$0	\$ -
<b>General Requirements</b>	\$ 2,065,736		\$ 2,065,736		\$0	\$ 2,065,736		\$0	\$ -
<b>Bonds</b>	\$ - w GCs		\$ - w GCs		\$0	\$ - w GCs		\$0	\$ -
<b>Insurance</b>	\$ - w GCs		\$ - w GCs		\$0	\$ - w GCs		\$0	\$ -
<b>Permit</b>	\$ -		\$ -		\$0	\$ -		\$0	\$ -
<b>Fee</b>	\$ 1,625,000		\$ 1,625,000		\$0	\$ 1,625,000		\$0	\$ -
<b>Design Contingency</b>	\$ 3,923,312		\$ 1,856,326		-\$2,066,986	\$ 2,048,132		-\$1,875,180	\$ (191,806)
<b>GMP Contingency</b>	\$ 1,192,207		\$ 1,186,764		-\$5,443	\$ 1,406,384		\$214,177	\$ (219,620)
<b>Escalation</b>	\$ 1,987,011		\$ 1,582,352		-\$404,659	\$ 1,338,649		-\$648,362	\$ 243,703
<b>Total Construction Cost</b>	<b>\$ 79,480,444</b>	<b>\$475</b>	<b>\$ 79,117,606</b>	<b>\$473</b>	<b>-\$362,838</b>	<b>\$ 78,714,975</b>	<b>\$470</b>	<b>-\$765,469</b>	
<b>Accepted Post DD VE</b>	<b>\$ (629,476)</b>								
<b>Adjusted DD Total</b>	<b>\$ 78,850,968</b>	<b>\$471</b>	<b>\$ 79,117,606</b>	<b>\$473</b>		<b>\$ 78,714,975</b>	<b>\$470</b>		





**60% Construction Documents Estimate**

**W. Edward Balmer  
Elementary School**

Whitinsville, MA

**PM&C LLC**  
20 Downer Ave, Suite 5  
Hingham, MA 02043  
(T) 781-740-8007  
(F) 781-740-1012

Prepared for:

**Dore + Whittier Architects, Inc.**

June 7, 2019



**W. Edward Balmer Elementary School**  
Whitinsville, MA

07-Jun-19

**60% Construction Documents Estimate**

**MAIN CONSTRUCTION COST SUMMARY**

	<b>Construction Start</b>	<b>Gross Floor Area</b>	<b>\$/sf</b>	<b>Estimated Construction Cost</b>
	Sep-19			
NEW BUILDING		167,352	\$312.04	\$52,220,361
DEMOLISH EXISTING SCHOOL		71,871	\$7.00	\$503,097
REMOVE HAZARDOUS MATERIALS				\$1,088,926
GENERAL REQUIREMENTS				\$2,065,736
SITework				\$11,054,306
SUB-TOTAL		167,352	\$399.95	\$66,932,426
ESCALATION	2.00%			\$1,338,649
DESIGN AND PRICING CONTINGENCY	3.0%			\$2,048,132
SUB-TOTAL		167,352	\$420.19	\$70,319,207
GENERAL CONDITIONS				\$5,364,384
BONDS				Included w/ GC's
INSURANCE				Included w/ GC's
PERMIT				Waived
CM CONTINGENCY	2%			\$1,406,384
CM FEE				\$1,625,000
<b>TOTAL OF ALL CONSTRUCTION</b>		167,352	\$470.36	<b>\$78,714,975</b>
<b>ALTERNATES (includes all markups):</b>				
<b>Wood canopy ILO metal exterior canopy</b>			DEDUCT	<b>(\$58,563)</b>



**W. Edward Balmer Elementary School**  
Whitinsville, MA

07-Jun-19

### **60% Construction Documents Estimate**

This 60% Construction Documents cost estimate was produced from drawings, specifications and other documentation prepared by Dore and Whittier Architects Inc. and their design team dated May 17, 2019. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

This estimate includes all direct construction costs, Construction Managers overhead, fee and design contingency. Cost escalation assumes start dates indicated.

Bidding conditions are expected to be public bidding under Chapter 149a of the Massachusetts General Laws to pre-qualified construction managers, and pre-qualified sub-contractors, open specifications for materials and manufacturers.

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
- Contaminated soils removal



W. Edward Balmer Elementary School  
Whitinsville, MA

07-Jun-19

GSF 167,352

60% Construction Documents Estimate

**CONSTRUCTION COST SUMMARY IN CSI FORMAT**

	NEW SCHOOL BUILDING	SITEWORK	TOTAL	Cost/SF
<b>DIV. 2 EXISTING CONDITIONS</b>				
024120 Demolition - Bulk	See Front Summary			
028200 HazMat Remediation	See Front Summary			
<b>DIV. 3 CONCRETE</b>				
033000 Cast-in-Place Concrete	\$2,388,185	\$65,260	\$2,453,445	\$15.53
033005 Water Vapor Reducing Admixture	\$145,868		\$145,868	
<b>DIV. 4 MASONRY</b>				
<b>040001 Masonry - FSB</b>	<b>\$2,497,301</b>		<b>\$2,497,301</b>	<b>\$14.92</b>
<b>DIV. 5 METALS</b>				
051000 Structural Steel	\$5,869,360		\$5,869,360	\$4.86
054000 Cold-Formed Metal Framing	\$218,849		\$218,849	
<b>055000 Metal Fabrications - FSB</b>	<b>\$740,709</b>	<b>\$4,800</b>	<b>\$745,509</b>	
055305 Metal Gratings and Floor Plates	\$3,900		\$3,900	
<b>DIV. 6 WOODS &amp; PLASTICS</b>				
061000 Rough Carpentry	\$463,150		\$463,150	\$6.33
062000 Finish Carpentry	\$19,200		\$19,200	
064020 Interior Architectural Woodwork	\$334,043		\$334,043	
064216 Wood-Veneer Paneling	\$242,705		\$242,705	
<b>DIV. 7 THERMAL &amp; MOISTURE PROTECTION</b>				
<b>070001 Waterproofing, Dampproofing &amp; Caulking - FSB</b>	<b>\$1,026,814</b>		<b>\$1,026,814</b>	<b>\$38.15</b>
<b>070002 Roofing and Flashing - FSB</b>	<b>\$1,807,693</b>		<b>\$1,807,693</b>	
072100 Building Insulation	\$482,678		\$482,678	
076400 Cladding Panels	\$2,892,452		\$2,892,452	
077200 Roof Accessories	\$9,000		\$9,000	
078100 Fireproofing & Firestopping	\$165,964		\$165,964	
<b>DIV. 8 DOORS &amp; WINDOWS</b>				
<b>080001 Windows - FSB</b>	<b>\$469,175</b>		<b>\$469,175</b>	<b>\$23.61</b>
<b>080002 Glass and Glazing - FSB</b>	<b>\$167,694</b>		<b>\$167,694</b>	
081110 HM Doors and Frames	\$258,155		\$258,155	
082110 Wood Doors	\$168,375		\$168,375	



60% Construction Documents Estimate

**CONSTRUCTION COST SUMMARY IN CSI FORMAT**

	NEW SCHOOL BUILDING	SITEWORK	TOTAL	Cost/SF
083100 Access Doors	\$10,000		\$10,000	
083513 Folding Doors (Nana)	\$232,144		\$232,144	
084113 Overhead Doors	\$27,720		\$27,720	
084313 Aluminum Framed-Storefronts	\$1,624,905		\$1,624,905	
084413 Glazed Aluminum Curtainwalls	\$211,180		\$211,180	
086300 Sky Lights	\$62,100		\$62,100	
087100 Door Hardware	\$317,550		\$317,550	
088300 Mirrors	\$1,000		\$1,000	
089100 Exterior Louvers	\$1,950		\$1,950	
089200 Louvered Equipment Enclosures	\$398,805		\$398,805	
<b>DIV. 9 FINISHES</b>	<b>\$7,653,342</b>		<b>\$7,653,342</b>	<b>\$45.73</b>
<b>090002 Tile - FSB</b>	<b>\$541,663</b>		<b>\$541,663</b>	
<b>090003 Acoustical Tile - FSB</b>	<b>\$793,357</b>		<b>\$793,357</b>	
<b>090005 Resilient Floors - FSB</b>	<b>\$1,028,374</b>		<b>\$1,028,374</b>	
<b>090007 Painting - FSB</b>	<b>\$413,102</b>		<b>\$413,102</b>	
092900 Gypsum Wallboard	\$4,130,078		\$4,130,078	
095000 Wood Ceiling	\$280,085		\$280,085	
096000 Wood Flooring	\$20,640		\$20,640	
096100 Wood Athletic Flooring	\$132,368		\$132,368	
096723 Fluid-Applied Flooring	\$123,280		\$123,280	
096820 Carpeting	\$94,011		\$94,011	
097200 Wall Coverings	\$6,770		\$6,770	
098400 Acoustic Room Components	\$89,614		\$89,614	
<b>DIV 10 SPECIALTIES</b>	<b>\$1,370,172</b>		<b>\$1,370,172</b>	<b>\$8.19</b>
101100 Visual Display Surfaces	\$295,112		\$295,112	
101400 Signage	\$78,920		\$78,920	
102100 Toilet Compartments and Cubicles	\$114,300		\$114,300	
102213 Wire Mesh Partitions	\$1,850		\$1,850	
102239 Folding Panel Partitions	\$35,100		\$35,100	
102400 Display cases	\$72,350		\$72,350	
102600 Wall And Corner Guards	\$20,400		\$20,400	
102606 Digitally Printed Protective Wallcovering	\$63,000		\$63,000	
102800 Toilet Accessories	\$88,310		\$88,310	
104400 Fire Protection Specialties	\$20,650		\$20,650	
104600 Privacy Curtains	\$3,000		\$3,000	
105100 Metal Lockers	\$394,180		\$394,180	
107113 Fixed Sun Screens	\$183,000		\$183,000	







W. Edward Balmer Elementary School  
Whitinsville, MA

07-Jun-19

GSF 167,352

60% Construction Documents Estimate

**CONSTRUCTION COST SUMMARY IN CSI FORMAT**

	NEW SCHOOL BUILDING	SITEWORK	TOTAL	Cost/SF
316600 Shoring/SOE				
<b>DIV. 32 EXTERIOR IMPROVEMENTS</b>		<b>\$5,026,883</b>	<b>\$5,026,883</b>	<b>\$30.04</b>
320000 Paving	\$2,448,555		\$2,448,555	
323000 Site Improvements	\$1,443,584		\$1,443,584	
329200 Landscaping	\$1,134,744		\$1,134,744	
<b>DIV. 33 UTILITIES</b>		<b>\$3,223,429</b>	<b>\$3,223,429</b>	<b>\$19.26</b>
330000 Civil Utilities	\$3,223,429		\$3,223,429	
<b>SUBTOTAL DIRECT (TRADE) COST</b>	<b>\$52,220,361</b>	<b>\$11,054,306</b>	<b>\$63,274,667</b>	<b>\$378.09</b>



W. Edward Balmer Elementary School  
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GFA 167,352

<b>CONSTRUCTION COST SUMMARY</b>					
<i>BUILDING SYSTEM</i>		<i>SUB-TOTAL</i>	<i>TOTAL</i>	<i>\$/SF</i>	<i>%</i>
<b>NEW BUILDING</b>					
<b>A10 FOUNDATIONS</b>					
A1010	Standard Foundations	\$1,333,338			
A1020	Special Foundations	\$0			
A1030	Lowest Floor Construction	\$1,933,089	<b>\$3,266,427</b>	\$19.52	6.3%
<b>A20 BASEMENT CONSTRUCTION</b>					
A2010	Basement Excavation	\$0			
A2020	Basement Walls	\$0	<b>\$0</b>	\$0.00	0.0%
<b>B10 SUPERSTRUCTURE</b>					
B1010	Upper Floor Construction	\$4,445,809			
B1020	Roof Construction	\$2,238,594	<b>\$6,684,403</b>	\$39.94	12.8%
<b>B20 EXTERIOR CLOSURE</b>					
B2010	Exterior Walls	\$7,688,061			
B2020	Windows	\$2,095,992			
B2030	Exterior Doors	\$175,070	<b>\$9,959,123</b>	\$59.51	19.1%
<b>B30 ROOFING</b>					
B3010	Roof Coverings	\$2,219,207			
B3020	Roof Openings		<b>\$2,219,207</b>	\$13.26	4.2%
<b>C10 INTERIOR CONSTRUCTION</b>					
C1010	Partitions	\$3,716,656			
C1020	Interior Doors	\$1,275,274			
C1030	Specialties/Millwork	\$2,071,964	<b>\$7,063,894</b>	\$42.21	13.5%
<b>C20 STAIRCASES</b>					
C2010	Stair Construction	\$428,950			
C2020	Stair Finishes	\$104,812	<b>\$533,762</b>	\$3.19	1.0%
<b>C30 INTERIOR FINISHES</b>					
C3010	Wall Finishes	\$913,999			
C3020	Floor Finishes	\$1,409,851			
C3030	Ceiling Finishes	\$1,448,727	<b>\$3,772,577</b>	\$22.54	7.2%
<b>D10 CONVEYING SYSTEMS</b>					
D1010	Elevator	\$152,950	<b>\$152,950</b>	\$0.91	0.3%
<b>D20 PLUMBING</b>					
D20	Plumbing	\$2,311,454	<b>\$2,311,454</b>	\$13.81	4.4%
<b>D30 HVAC</b>					
D30	HVAC	\$7,105,214	<b>\$7,105,214</b>	\$42.46	13.6%
<b>D40 FIRE PROTECTION</b>					
D40	Fire Protection	\$923,770	<b>\$923,770</b>	\$5.52	1.8%



W. Edward Balmer Elementary School  
Whitinsville, MA

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60% Construction Documents Estimate

GFA 167,352

<b>CONSTRUCTION COST SUMMARY</b>					
<i>BUILDING SYSTEM</i>		<i>SUB-TOTAL</i>	<i>TOTAL</i>	<i>\$/SF</i>	<i>%</i>
<b>NEW BUILDING</b>					
<b>D50 ELECTRICAL</b>					
D5010 Complete System		\$5,197,730	<b>\$5,197,730</b>	\$31.06	10.0%
<b>E10 EQUIPMENT</b>					
E10 Equipment		\$733,654	<b>\$733,654</b>	\$4.38	1.4%
<b>E20 FURNISHINGS</b>					
E2010 Fixed Furnishings		\$2,296,196			
E2020 Movable Furnishings		NIC	<b>\$2,296,196</b>	\$13.72	4.4%
<b>F10 SPECIAL CONSTRUCTION</b>					
F10 Special Construction		\$0	<b>\$0</b>	\$0.00	0.0%
<b>F20 HAZMAT REMOVALS</b>					
F2010 Building Elements Demolition		\$0			
F2020 Hazardous Components Abatement		\$0	<b>\$0</b>	\$0.00	0.0%
<b>TOTAL DIRECT COST (Trade Costs)</b>			<b>\$52,220,361</b>	\$312.04	100.0%



W. Edward Balmer Elementary School  
Whitinsville, MA

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60% Construction Documents Estimate

GFA

167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW BUILDING**

**GROSS FLOOR AREA CALCULATION**

First Floor	72,910
Second Floor	45,825
Third Floor	48,617

<b>TOTAL GROSS FLOOR AREA (GFA)</b>	<b>167,352 sf</b>
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**A10 FOUNDATIONS**

**A1010 STANDARD FOUNDATIONS**

033000 CONCRETE

Strip Footings	196	CY
Foundation Walls	455	CY
Spread Footings	642	CY
Additional concrete at stepped footings	73	CY
Piers	103	CY
<b>Total Foundation Concrete</b>	<b>1,469</b>	<b>CY</b>

Strip footings

Formwork	4,324	sf	15.00	64,860
Re-bar	6,643	lbs.	1.20	7,972
Concrete material; 4,500 psi	196	cy	125.00	24,500
Placing concrete	196	cy	70.00	13,720

Foundation walls

Formwork	16,860	sf	18.00	303,480
Re-bar	33,720	lbs.	1.20	40,464
Concrete material; 4,500 psi	455	cy	125.00	56,875
Placing concrete	455	cy	70.00	31,850
Form shelf	1,920	lf	10.00	19,200

Spread Footings

Formwork	9,360	sf	17.00	159,120
Re-bar	69,576	lbs.	1.20	83,491
Concrete material; 4,500 psi	642	cy	125.00	80,250
Placing concrete	642	cy	70.00	44,940
Set anchor bolts grout plates	196	ea	150.00	29,400

Piers/Pilasters

Formwork	2,660	sf	20.00	53,200
Re-bar	7,725	lbs	1.15	8,884
Concrete material; 4,500 psi	103	cy	125.00	12,875
Placing concrete	103	cy	80.00	8,240
Additional concrete at footings along path of underground drain pipe	73	cy	750.00	54,750

070001 WATERPROOFING, DAMPPROOFING AND CAULKING

Damp proofing at brick shelf at gym	801	sf	3.00	2,403
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072100 THERMAL INSULATION

Insulation	7,888	sf	3.00	23,664
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312000 EARTHWORK

Earthwork foundations - bid	1	ls	209,200.00	209,200
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Strip footings

Excavation	1,435	cy	18.00	Early Bid
Store on site	1,435	cy	15.00	Early Bid
Backfill with onsite material	784	cy	18.00	Early Bid

Spread footings

Excavation	1,926	cy	20.00	Early Bid
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W. Edward Balmer Elementary School  
Whitinsville, MA

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60% Construction Documents Estimate

GFA

167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>NEW BUILDING</b>							
59	Additional excavation at lower footings along path of underground drain pipe	3,911	cy	18.00	Early Bid		
60	Store on site	5,837	cy	15.00	Early Bid		
61	Backfill with onsite material	5,122	cy	18.00	Early Bid		
62	<u>Miscellaneous</u>				Early Bid		
63	Temporary support/protection at 36" diameter pipe - 410 lf	1	ls	150,000.00	Early Bid		
64	Premium for rock blasting -10% of total excavation	727	cy	60.00	Early Bid		
65	Gravel fill beneath footings, 12"	514	cy	40.00	Early Bid		
66	Perimeter drain	1,920	lf	20.00	Early Bid		
67	Dewatering for foundation work (per Geotech report)	1	ls	25,000.00	Early Bid		
68	SUBTOTAL					1,333,338	
69							
70	<b>A1020 SPECIAL FOUNDATIONS</b>						
71	No work in this section						
72	SUBTOTAL						
73							
74	<b>A1030 LOWEST FLOOR CONSTRUCTION</b>						
75							
76	033000 CONCRETE						
77	<u>Slab on grade, 5" thick</u>						
78	Vapor barrier	74,336	sf	1.00	74,336		
79	Mesh reinforcing 15% lap	85,486	sf	1.10	94,035		
80	Concrete - 5" thick; 4,000 psi	1,214	cy	115.00	139,610		
81	Premium for blind side waterproofing	17,771	sf	7.50	NR		
82	Placing concrete	1,214	cy	45.00	54,630		
83	Finishing and curing concrete	74,336	sf	2.50	185,840		
84	Control joints - saw cut	74,336	sf	0.10	7,434		
85	<u>Elevator Pit</u>						
86	<u>Wall</u>						
87	Formwork	240	sf	20.00	4,800		
88	Re-bar	480	lbs.	150.00	72,000		
89	Concrete material; 3,000 psi	9	cy	115.00	1,035		
90	Placing concrete	9	cy	20.00	180		
91	20" Mat slab w/ sump pit	175	sf	35.00	6,125		
92	Thickened slab at CMU walls	341	lf	25.00	8,525		
93	Slab depression premium	800	lf	25.00	20,000		
94	Sitework underslab utilities - bid	1	ls	226,500.00	226,500		
95	Underslab drainage at B & C wings per supplement #4	55,472	sf	4.00	Early Bid		
96	Ramp to gym	75	sf	20.00	1,500		
97	Equipment pads	1	ls	15,000.00	15,000		
98	Concrete to stair treads at loading dock	35	lfr	190.00	6,650		
99							
100	033005 WATER VAPOR REDUCING ADMIXTURE						
101	Water vapor reducer admixture	1,214	cy	52.00	63,128		
102							
103	072100 THERMAL INSULATION						
104	Rigid insulation	74,336	sf	2.25	167,256		
105							
106	312000 EARTHWORK						
107	Earthwork Slab on Grade - Bid	1	ls	709,505.00	709,505		
108	Adjustment to bid for underslab drainage	1	ls	75,000.00	75,000		
109	<i>Removal of unsuitables under the building included in site</i>						
110	<u>Slab on grade</u>						
111	E+B for UG plumbing	1	ls	40,000.00	Early Bid		
112	Structural fill under the building	13,254	cy	30.00	Early Bid		
113	12" Structural fill	2,753	cy	30.00	Early Bid		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW BUILDING**

114	Compact sub-grade	74,336	sf	0.50	Early Bid		
115	SUBTOTAL					1,933,089	

<b>TOTAL - FOUNDATIONS</b>						<b>\$3,266,427</b>
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**A20 BASEMENT CONSTRUCTION**

**A2010 BASEMENT EXCAVATION**

No Work in this section

SUBTOTAL

**A2020 BASEMENT WALLS**

No Work in this section

SUBTOTAL

<b>TOTAL - BASEMENT CONSTRUCTION</b>						
--------------------------------------	--	--	--	--	--	--

**B10 SUPERSTRUCTURE**

15.0 lbs/sf

**B1010 FLOOR CONSTRUCTION**

1,254 tns Excluding roof screen steel

**033000 CONCRETE**

Concrete on Metal Deck

WWF reinforcement

108,753 sf 1.10 119,628

Concrete fill to metal deck; 4-1/2" normal weight

1,379 cy 130.00 179,270

Place and finish concrete

94,568 sf 2.00 189,136

Rebar to decks

28,370 lbs 1.20 34,044

Ferro clips at CMU fire wall; S1.33

30 lf 50.00 1,500

**033005 WATER VAPOR REDUCING ADMIXTURE**

Water vapor reducer admixture

1,379 cy 60.00 82,740

**051000 STRUCTURAL STEEL FRAMING**

Steel beams and bracing

538 tns 3,800.00 2,044,400

Steel columns

172 tns 3,800.00 653,600

Premium for HSS

265 tns 350.00 92,750

Misc. angles, plates, lintels etc - 15%

107 tns 3,800.00 406,600

Shear studs

18,914 ea 2.50 47,285

2", 20ga Metal floor deck

94,568 sf 3.90 368,815

Moment connections

21 ea 500.00 10,500

Full welds

95 ea 900.00 85,500

Expansion joints

150 lf 75.00 11,250

**078100 FIREPROOFING/FIRESTOPPING**

Columns, beams & underside of deck receive spray applied fireproofing per GC1.10/GC1.20

31,083 sf 3.50 108,791

Fire stopping floors

1 ls 10,000.00 10,000

SUBTOTAL

4,445,809

**B1020 ROOF CONSTRUCTION**

**033000 CONCRETE**

Concrete on metal deck at rooftop equipment & select low roof locations

WWF reinforcement

6,419 sf 1.10 7,061

Concrete fill to metal deck; 7" light weight

127 cy 175.00 22,225

Place and finish concrete

5,582 sf 2.00 11,164

Rebar to decks

1,926 lbs 1.20 2,311



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<b>NEW BUILDING</b>								
173	051000 STRUCTURAL STEEL FRAMING							
174	Steel beams/columns	363	tns	3,800.00	1,379,400			
175	Joists at gym roof - DLH series	17	tns	3,500.00	59,500			
176	Premium for HSS	20	tns	350.00	7,000			
177	Misc. angles, plates, lintels etc - 15%	57	tns	3,800.00	216,600			
178	Galv steel at roof screen framing, 55#/LF	25	tns	4,900.00	122,500			
179	Premium for AESS steel - exterior columns only					NR		
180	Acoustic deck at gym	6,400	sf	9.00	57,600			
181	3" type N galvanized metal roof deck, typical	81,407	sf	3.50	284,925			
182	Uplift bridging at gym roof	188	lf	50.00	9,400			
183	X-bridging at gym roof	3,055	lbs	2.00	6,110			
184	Expansion joints	75	lf	75.00	5,625			
185								
186	078100 FIREPROOFING/FIRESTOPPING							
187	Columns, beams & underside of deck receive spray applied fireproofing GCI.30	13,478	sf	3.50	47,173			
188	SUBTOTAL					2,238,594		
189								
190	<b>TOTAL - SUPERSTRUCTURE</b>						<b>\$6,684,403</b>	
191								
192								
193	<b>B20 EXTERIOR CLOSURE</b>							
194								
195	<b>B2010 EXTERIOR WALLS</b>	67,975	sf					
196								
197	040001 MASONRY							
198	Brick veneer	36,774	sf	38.00	1,397,412			
199	Ground face CMU veneer at gym A24/A4.14	400	sf	30.00	12,000			
200	Premium for brick pier construction type X1.11A	8,903	sf	3.00	26,709			
201	Premium for brick 8" soldier course	375	lf	5.00	1,875			
202	Brick to columns at entry vestibule #1214	682	sf	40.00	27,280			
203	Cast stone base	4,426	sf	62.00	274,412			
204	Stone cap at base	1,044	lf	75.00	78,300			
205	Stone cap above brick; profile A 6" deep	1,901	lf	60.00	114,060			
206	Stone cap above brick piers at upper level; profile B 9" deep	215	lf	75.00	16,125			
207	4" CMU at roof to wall flashing below brick veneer; R11/A3.50	301	sf	20.00	6,020			
208	12" CMU backup, reinforced @ Gym	5,625	sf	32.00	180,000			
209	Staging to exterior wall	42,282	sf	4.00	169,128			
210								
211	062000 FINISH CARPENTRY							
212	2x Hardwood insert each side of web at canopy support columns; 9'-2" high detail A26/A6.51	16	loc	1,200.00	19,200			
213								
214	101400 SIGNAGE							
215	Exterior signage	1	ls	10,000.00	10,000			
216								
217	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
218	Air barrier; spray barrier	67,975	sf	6.50	441,838			
219	Air barrier; spray barrier at soffit and cornice	17,614	sf	6.50	114,491			
220	Air barrier/flashing at windows	9,042	lf	6.75	61,034			
221	Miscellaneous sealants & flashings at closure	67,975	sf	1.00	67,975			
222								
223	072100 THERMAL INSULATION							
224	Insulation; 3" rigid at masonry	42,583	sf	3.00	127,749			
225	Insulation; 4" mineral wool at metal & phenolic panel	25,392	sf	4.15	105,377			
226	Insulation; 4" mineral wool at metal soffits	6,136	sf	4.15	25,464			
227								
228	075200 CLADDING							



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<b>NEW BUILDING</b>							
229	Metal composite material panel rain screen system with back ventilation @ roof level; LYMO architectural systems	12,950	sf	70.00	906,500		
230	Pre-finished phenolic panel rainscreen system (3 colors); Trespa "Meteon"	12,442	sf	68.00	846,056		
231	Prefinished MCM metal cornice; A6.70	1,913	lf	280.16	535,946		
232	Metal soffit panel at overhang and canopy soffits, including framing, sheathing, insulation (ATAS)	6,136	sf	65.00	398,840		
233	Insulated metal column covers at exterior 9'-2" high; A27/A6.60	2	loc	5,135.20	10,270		
234	Mockups; per specifications	1	ls	50,000.00	50,000		
235							
236	089200 LOUVERED EQUIPMENT ENCLOSURES						
237	Aluminum horizontal louvered roof screen Centria or similar	7,251	sf	55.00	398,805		
238							
239	090007 PAINTING						
240	Paint exposed exterior canopy support columns 9'-2" high - A26/A6.51	16	loc	250.00	4,000		
241							
242	092900 GYPSUM BOARD ASSEMBLIES						
243	12 GA. CFMF angle at roof cornice	1,913	lf	35.00	66,955		
244	2-1/2" CFMF between struct. Channels at cornice	3,028	sf	9.00	27,252		
245	3-1/2" CFMF horizontal z-girt at cornice	3,501	sf	6.00	21,006		
246	6" CFMF vertical z-girt behind cornice and fascia	5,617	sf	9.50	53,362		
247	Vertical z-girt at cornice roof edge and fascia	5,292	sf	9.50	50,274		
248	Framing system @ overhangs and canopies	6,136	sf	14.00	85,904		
249	6" metal stud backup	62,350	sf	9.50	592,325		
250	Gypsum Sheathing	62,350	sf	2.75	171,463		
251	Drywall lining to interior face of stud backup (furred partitions at inside of exterior walls taken below)	58,380	sf	3.30	192,654		
252	SUBTOTAL					7,688,061	
253							
254	<b>B2020 WINDOWS</b>	16,844	sf				
255							
256	061000 ROUGH CARPENTRY						
257	Wood blocking at openings	9,042	lf	12.00	108,504		
258							
259	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
260	Backer rod & double sealant	9,042	lf	9.00	81,378		
261							
262	080001 METAL WINDOWS						
263	Aluminum framed windows	1,185	sf	95.00	112,575		
264							
265	084313 ALUMINUM-FRAMED STOREFRONTS						
266	Storefront	13,929	sf	95.00	1,323,255		
267	Premium for operable hopper panels in storefront	155	loc	300.00	46,500		
268	Premium for 1" school guard coating at storefront SGS-1	790	sf	35.00	27,650		
269							
270	084413 GLAZED ALUMINUM CURTAINWALLS						
271	Curtainwall, double glazed (EFCO 5600 or equal) 7-1/2" system	1,700	sf	120.00	204,000		
272	Premium for spandrel glass; IG-6	718	sf	10.00	7,180		
273							
274	089100 LOUVERS						
275	Louvers	30	sf	65.00	1,950		
276							
277	107113 FIXED SUN SCREENS						
278	Pre-finished aluminum sunshades	732	lf	250.00	183,000		
279	SUBTOTAL					2,095,992	
280							
281	<b>B2030 EXTERIOR DOORS</b>						





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<b>NEW BUILDING</b>								
282								
283	061000 ROUGH CARPENTRY							
284	Wood blocking at openings	475	lf	11.00	5,225			
285								
286	072100 THERMAL INSULATION							
287	Fill frames with low rise insulation; details page A8.50	475	lf	6.00	2,850			
288								
289	079200 JOINT SEALANTS							
290	Backer rod & double sealant	475	lf	9.00	4,275			
291								
292	081110 HOLLOW METAL							
293	Frames, single	2	ea	450.00	900			
294	Frames, double	4	ea	600.00	2,400			
295	Type F - Single leaf hollow metal door	2	ea	500.00	1,000			
296	Type F - Double leaf hollow metal door	4	pr	1,000.00	4,000			
297								
298	084113 OVERHEAD DOORS							
299	Overhead door; 8' x 7'	1	ea	3,920.00	3,920			
300								
301	083513 FOLDING DOORS							
302	No items in this section							
303								
304	089000 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS							
305	Glazed aluminum entrance door and hardware in CW frame; 3'x7'	7	ea	4,000.00	28,000			
306	Glazed aluminum entrance door and hardware in CW frame; 6'x7'	11	pr	8,500.00	93,500			
307	Auto openers - allow	3	ea	5,000.00	15,000			
308								
309	087100 DOOR HARDWARE							
310	Hardware	10	leaf	1,200.00	12,000			
311								
312	090007 PAINTING							
313	Finish doors and frames	10	ea	200.00	2,000			
314	SUBTOTAL					175,070		
315								
316	<b>TOTAL - EXTERIOR CLOSURE</b>						<b>\$9,959,123</b>	
317								
318								
319	<b>B30 ROOFING</b>							
320								
321	<b>B3010 ROOF COVERINGS</b>							
322								
323	055000 MISC. METALS							
324	Roof ladder	4	ea	5,000.00	20,000			
325								
326	061000 ROUGH CARPENTRY							
327	Rough blocking	9,291	lf	8.00	74,328			
328	Rough blocking at mechanical penetrations	1	ls	5,000.00	5,000			
329								
330	070002 ROOFING AND FLASHING							
331	TPO roofing, 60mil, complete	74,546	sf	17.50	1,304,555			
332	Extend roof membrane over top and back of parapet	988	sf	11.00	10,868			
333	Self adhered base sheet at cornice backup	3,195	sf	6.00	19,170			
334	Stone ballast roofing, R1B & R3B, complete	12,273	sf	22.00	270,006			
335	Premium for tapered insulation	35,940	sf	2.00	71,880			
336	2 layers 3/4" PPT plywood at fascia backup	3,122	sf	9.00	28,098			
337	1/2" exterior grade plywood at cornice and fascia backup	5,771	sf	4.00	23,084			
338	1/2" exterior grade plywood at roof to wall flashing	1,697	sf	2.75	4,667			
339	Walkway pads	1,980	sf	12.00	23,760			
340	Roof to wall through wall flashing	1,697	lf	20.00	33,940			
341	Roof scupper; R27/A3.50	24	loc	350.00	8,400			



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<b>NEW BUILDING</b>								
342	Miscellaneous roof flashings & sealants	<b>86,819</b>	sf	0.75	65,114			
343								
344	<i>072100 THERMAL INSULATION</i>							
345	3" rigid insulation at cornice and fascia	<b>9,118</b>	sf	3.00	27,354			
346	3" rigid insulation at over top and back of parapet	<b>988</b>	sf	3.00	2,964			
347								
348	<i>075200 CLADDING PANELS</i>							
349	Preformed fascia/gravel stop edge detail at canopy/ ballast roofs/ parapet 18" high; Q27/A6.70	<b>1,704</b>	lf	85.00	144,840			
350	SUBTOTAL					2,138,028		
351								
352	<i>077200 ROOF ACCESSORIES</i>							
353	Roof hatch including access ladder	<b>1</b>	ea	4,000.00	4,000			
354	Elevator penthouse	<b>1</b>	ls	5,000.00	5,000			
355								
356	<i>086300 METAL FRAMED SKYLIGHTS</i>							
357	Sloped skylights	<b>414</b>	sf	150.00	62,100			
358								
359	<i>092900 GYPSUM BOARD ASSEMBLIES</i>							
360	Gypsum Sheathing at roof edge	<b>3,665</b>	sf	2.75	10,079			
361	SUBTOTAL					81,179		
362								
363	<b>TOTAL - ROOFING</b>							<b>\$2,219,207</b>
364								
365								
366	<b>C10 INTERIOR CONSTRUCTION</b>							
367								
368	<b>C1010 PARTITIONS</b>							
369								
370	<i>042000 MASONRY</i>							
371	D; 4" CMU	<b>80</b>	sf	20.00	1,600			
372	E1; 8" CMU, reinforced, 1 hr @ elevator shaft	<b>1,682</b>	sf	24.00	40,368			
373	G1; 12" CMU shear wall, reinforced, 1 hr @ gym	<b>2,131</b>	sf	32.00	68,192			
374	G2; 8" CMU shear wall, reinforced, 2 hr fire wall	<b>2,552</b>	sf	29.00	74,008			
375	H; 6" CMU	<b>446</b>	sf	22.00	9,812			
376								
377	<i>055000 MISCELLANEOUS METALS</i>							
378	Seismic clips	<b>86</b>	ea	140.00	12,040			
379	Misc. metals to CMU	<b>6,891</b>	sf	1.00	6,891			
380	Painted steel plate column covers at CMU wall locations; per J series details/A1.50	<b>1</b>	ls	5,000.00	5,000			
381	Support at fire door & overhead doors	<b>205</b>	lf	130.00	26,650			
382								
383	<i>061000 ROUGH CARPENTRY</i>							
384	Wood blocking at interiors	<b>167,352</b>	gsf	0.50	83,676			
385	Rough blocking at partitions	<b>34,920</b>	lf	3.00	104,760			
386								
387	<i>070001 WATERPROOFING, DAMPPROOFING AND CAULKING</i>							
388	Miscellaneous sealants at partitions	<b>199,027</b>	sf	0.30	59,708			
389								
390	<i>080001 METAL WINDOWS</i>							
391	Interior storefront	<b>1,208</b>	sf	75.00	90,600			
392	Interior curtainwall at stair 5, 1hr fire rated 7-1/2" frame	<b>1,050</b>	sf	250.00	262,500			
393	Premium for 5/16" school guard coating at SF-9, SF-31 & door 1102	<b>100</b>	sf	35.00	3,500			
394								
395	<i>080002 GLASS AND GLAZING</i>							
396	Glazing to borrowed lite HM frames	<b>1,022</b>	sf	35.00	35,770			
397	Wall mirror at PT	<b>25</b>	sf	40.00	1,000			
398	Premium for 1 hr glass at library open to above	<b>98</b>	sf	35.00	3,430			
399								
400	<i>081110 HOLLOW METAL DOOR FRAMES</i>							



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<b>NEW BUILDING</b>							
401	Glazed HM borrowed lite frames	1,022	sf	40.00	40,880		
402							
403	088300 MIRRORS						
404	Wall mirror at PT	25	sf	40.00	1,000		
405							
406	092900 GYPSUM BOARD ASSEMBLIES						
407	A; 6" Metal stud, 1 layer 5/8" e.s., insulation	100,826	sf	15.00	1,512,390		
408	A1; 6" Metal stud, 1 layer 5/8" e.s., insulation, 1 hr	7,024	sf	17.00	119,408		
409	A2; 6" Metal stud, 2 layers 5/8" e.s., insulation	834	sf	19.00	15,846		
410	B; 3-5/8" Metal stud, 1 layer 5/8" e.s., insulation	3,279	sf	13.00	42,627		
411	B1; 3-5/8" Metal stud, 1 layer 5/8" e.s., insulation (1 hr)	493	sf	15.00	7,395		
412	F - 2 1/2" Metal stud, 1 layer 5/8" o.s., insulation	17,698	sf	7.50	132,735		
413	F4; 3 5/8" Metal stud, 1 layer 5/8" o.s., insulation	36,287	sf	9.50	344,727		
414	F6; 6" Metal stud, 1 layer 5/8" o.s., insulation	24,574	sf	11.50	282,601		
415	F10; 1-5/8" Metal stud, 1 layer 5/8" o.s., insulation	200	sf	6.00	1,200		
416	S1 - 2 1/2" CH stud, 1 layer 1" GWB coreboard o/s, 1 layers 5/8" GWB o/s, insulation	7,666	sf	13.70	105,024		
417	S7 - 6" CH stud, 1 layer 1" GWB coreboard o/s, 2 layers 5/8" GWB o/s, insulation	146	sf	19.50	2,847		
418	Premium for abuse resistant GWB at all walls up to 10' per AGO.02	174,600	sf	0.50	87,300		
419	Premium for water-resistant GWB	3,696	sf	1.00	3,696		
419	Additional layer of GWB on FRT blocking at shower	99	sf	5.30	525		
420	Cleanup for drywall/logistics	1	ls	90,000.00	90,000		
421							
422	102213 WIRE MESH PARTITIONS						
423	Wire mesh partition at stair 2 level 3; 8' high	9	lf	150.00	1,350		
424	Wire mesh door; single	1	ea	500.00	500		
425							
426	102239 FOLDING PANEL PARTITIONS						
427	Modernfold partition btwn Platform & Gym	26	lf	1,350.00	35,100		
428							
429	SUBTOTAL					3,716,656	
430	<b>C1020 INTERIOR DOORS</b>						
431							
432	061000 ROUGH CARPENTRY						
433	Wood blocking at openings	5,664	lf	4.00	22,656		
434							
435	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
436	Backer rod & double sealant	5,664	lf	2.50	14,160		
437							
438	080002 GLASS AND GLAZING						
439	Glass in door, transoms & sidelights 5/16" S3 safety glazing	2,768	sf	38.00	105,184		
440	S-2 fire resistant safety glazing in glass openings in fire rated partitions	1	ls	20,000.00	20,000		
441	Premium for 5/16" school guard glazing at interior doors and frames at pre-k entrance and main entrance	66	sf	35.00	2,310		
442							
443	081110 HOLLOW METAL DOORS AND FRAMES						
444	Type F door, sgl leaf	2	ea	500.00	1,000		
445	Type F door, dbl leaf	3	pr	1,000.00	3,000		
446	Type F door, sgle mesh door	1	ea	750.00	750		
447	Frame type 1, single	7	ea	450.00	3,150		
448	Frame type 2, double	4	ea	600.00	2,400		
449	Frame type 3, single	149	ea	450.00	67,050		
450	Frame type 4, double	29	ea	600.00	17,400		
451	Frame type 5, single w/ sidelight	19	ea	750.00	14,250		
452	Frame type 6, single w/ transom & sidelight	88	ea	1,050.00	92,400		
453	Frame type 7, double w/ transom	8	ea	850.00	6,800		
454	Frame type 8, single w/ sidelight	1	ea	775.00	775		



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<b>NEW BUILDING</b>							
455							
456	081400 WOOD DOORS						
457	Type F, sgl leaf	142	ea	450.00	63,900		
458	Type F, dbl leaf	34	pr	900.00	30,600		
459	Type FG, sgl leaf, glazed upper & lower	84	ea	600.00	50,400		
460	Type FG, dbl leaf, glazed upper & lower	2	pr	1,200.00	2,400		
461	Type G, sgl leaf, glazed upper	1	ea	525.00	525		
462	Type N, sgl leaf w/ vision panel	36	ea	500.00	18,000		
463	Premium for 60 min fire rated doors	15	ea	100.00	1,500		
464	Premium for 90 min fire rated doors	7	ea	150.00	1,050		
465							
466	083000 OVERHEAD DOORS						
467	Overhead door; 17' x 10' at Servery	2	ea	11,900.00	23,800		
468							
469	083110 ACCESS DOORS AND FRAMES						
470	Access doors	1	ls	10,000.00	10,000		
471							
472	083513 FOLDING DOORS, GLAZED						
473	FD; Nana wall, 8' x 8' at Classrooms	10	ea	14,080.00	140,800		
474	FD; Nana wall, 12' x 8' at Media Center	1	ea	21,120.00	21,120		
475	HSD Folding wall doors; 15'-4" x 8', 90 min at fire wall, WON or equal	3	ea	23,408.00	70,224		
476							
477	089000 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS						
478	Glazed aluminum entrance door, frame and hardware, type FG, single leaf	3	ea	4,000.00	12,000		
479	Glazed aluminum entrance door, frame and hardware, type FG, double leaf	8	pr	8,000.00	64,000		
480	Auto openers - allow	3	ea	5,000.00	15,000		
481							
482	087100 DOOR HARDWARE						
483	Hardware	343	leaf	850.00	291,550		
484	Premium for STC 52 rated doors at Music rooms	7	ea	2,000.00	14,000		
485							
486	090007 PAINTING						
487	Finish doors and frames	343	ea	200.00	68,600		
488	Painted surface at door transoms at grade entrances; similar to K14/A9.52	84	sf	30.00	2,520		
489	SUBTOTAL					1,275,274	
490							
491	<b>C1030 SPECIALTIES / MILLWORK</b>						
492							
493	055000 MISCELLANEOUS METALS						
494	Miscellaneous metals throughout building	167,352	gsf	1.50	251,028		
495	Double handrail at platform ramp	35	lf	150.00	5,250		
496	Double ballet bar at PT	5	lf	150.00	750		
497	PT swing misc. steel beam	2	loc	2,000.00	4,000		
498							
499	061000 ROUGH CARPENTRY						
500	Backer panels in electrical closets	1	ls	2,500.00	2,500		
501	3/4" millwork grade plywood backup at lego wall	163	sf	4.00	652		
502							
503	064020 INTERIOR ARCHITECTURAL WOODWORK						
504	Library light well decorative acrylic sculptural elements; 3-form	2	ea	9,100.00	18,200		
505	Library decorative acrylic sculptural element above shelving; 3-form	2	ea	7,000.00	14,000		
506	Alcove seating at Corridor 1101; G23/A9.71	36	lf	350.00	12,600		
507	Built in upholstered benches at library; T19/A9.71	22	lf	800.00	17,600		
508	Built in upholstered benches at cafeteria; G6/A9.71	27	lf	800.00	21,600		
509	Book shelving joined to desks at media center 3 tier	19	lf	300.00	5,700		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>NEW BUILDING</b>							
510	Counter at general office/waiting	14	lf	900.00	12,600		
511	Desk at media center/Reading room including shelving at front	18	lf	1,200.00	21,600		
512	Vanity at gang bathroom corridor sinks				NIC		
513	Window seat at corridor	113	lf	350.00	39,550		
514	Countertop at corridor 3109	11	lf	250.00	2,750		
515	Stage nosing - 1x hardwood trim with bullnose; 9/A9.60	25	lf	50.00	1,250		
516	3-1/2" maple trim at lego wall	143	lf	35.00	5,005		
517	Hardwood window sill and apron	1,779	lf	50.00	88,950		
518	Plam cap at lockers; 15" deep	817	lf	50.00	40,850		
519	Plam sides at lockers; 15" deep	365	lf	50.00	18,250		
520							
521	064216 WOOD-VENEER PANELING						
522	Hardwood veneer plywood panel at Proscenium	444	sf	75.00	33,300		
523	Laminate front wall panel with MDF substrate and laser cut letters at entry to gang toilet rooms	98	sf	70.00	6,860		
524	Hardwood veneer plywood wainscoting at locations noted on DD supplement #4; details SK-DD-01	1,437	sf	75.00	107,775		
525	Chair rail above wainscoting at locations noted on DD supplement #4; details SK-DD-01	389	lf	30.00	11,670		
526	3/4" maple veneer plywood at lobby 1101 and corridor 1135 per details on A9.72	665	sf	75.00	49,875		
527	3/4" maple veneer plywood at cafeteria per details on A9.72	443	sf	75.00	33,225		
528							
529	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
530	Miscellaneous sealants throughout building	167,352	gsf	1.00	167,352		
531							
532	101100 VISUAL DISPLAY SURFACES						
533	Marker boards	6,908	sf	22.00	151,976		
534	Tack board	3,432	sf	20.00	68,640		
535	Tack strips at teaching walls and corridors	9,312	lf	8.00	74,496		
536							
537	102400 DISPLAY CASES						
538	Glass display case with bi-parting sliding glass doors on BB rail hardware, jewelry case lock at bottom	4	loc	6,000.00	24,000		
539	Glass display case at media center (shown dashed)	1	loc	10,000.00	10,000		
540	Recessed display cases with lockable sliding glass doors; Q19/A9.72	4	loc	9,587.50	38,350		
541							
542	101400 SIGNAGE						
543	Building directory	1	loc	3,000.00	3,000		
544	Room Signs	321	loc	120.00	38,520		
545	Acrylic back painted circle with grade symbol at corridor door transom	8	loc	100.00	800		
546	Acrylic cutout letters, back painted white	8	loc	200.00	1,600		
547	Other signage/graphics	1	ls	25,000.00	25,000		
548							
549	102110 TOILET COMPARTMENTS						
550	ADA, solid part-recycled plastic	12	ea	2,000.00	24,000		
551	Standard, solid part-recycled plastic	48	ea	1,800.00	86,400		
552	Urinal screen, solid part-recycled plastic	6	ea	650.00	3,900		
553							
554	102800 TOILET ACCESSORIES						
555	Combo paper towel dispenser & waste units	12	ea	380.00	4,560		
556	Trash receptacle units at pre-k	4	ea	250.00	1,000		
557	Framed mirrors	60	ea	200.00	12,000		
558	Grab bars	57	sets	200.00	11,400		
559	Sanitary napkin disposal units	84	ea	100.00	8,400		
560	Electric hand dryers at gang bathrooms	60	ea	750.00	45,000		
561	Folding shower seat	1	ea	350.00	350		



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**NEW BUILDING**

562	Shower curtain and rod	1	ea	200.00	200		
563	Shower grab bars	1	set	300.00	300		
564	Soap dispenser	51	ea	70.00	By owner		
565	Toilet paper dispensers	93	ea	150.00	By owner		
566	Paper towel dispensers	48	ea	150.00	By owner		
567	Paper towel dispensers at pre-k	4	ea	150.00	By owner		
568	Bench with changing table at SPED toilet 6' wide	1	ea	1,700.00	1,700		
569	Changing table	2	ea	800.00	1,600		
570	Janitors Closet Accessories	6	rms	300.00	1,800		
571							
572	104600 PRIVACY CURTAINS						
573	Curtain track in exam rooms	60	lf	50.00	3,000		
574							
575	104400 FIRE PROTECTION SPECIALTIES						
576	Fire extinguisher cabinets	56	ea	350.00	19,600		
577	AED cabinets	3	ea	350.00	1,050		
578							
579	105100 LOCKERS						
580	Double tier HDPE student lockers, 12"x15"x60"	604	ope	360.00	217,440		
581	Single tier HDPE lockers on level 2	439	ea	400.00	175,600		
582	Staff metal lockers	6	ope	190.00	1,140		
583							
584	102800 WALL PROTECTION						
585	Stainless steel corner guards at corridor 1153	2	ea	200.00	400		
586	Corner guards elsewhere	1	ls	20,000.00	20,000		
587	SUBTOTAL					2,071,964	
588							
589	<b>TOTAL - INTERIOR CONSTRUCTION</b>						<b>\$7,063,894</b>

**C20 STAIRCASES**

**C2010 STAIR CONSTRUCTION**

596	033000 CONCRETE						
597	Concrete to stairs	9	flt	2,100.00	18,900		
598							
599	055000 MISCELLANEOUS METALS						
600	Egress stairs 1,2,3,4 w/ mesh rails	9.0	flt	34,000.00	306,000		
601	Egress stairs 5 w/ glass infill panel rails	2	flt	50,000.00	100,000		
602	Steps at stair 2 roof penthouse	5	lf	30.00	150		
603							
604	055305 METAL GRATINGS AND FLOOR PLATES						
605	Metal grate at stair 2 roof penthouse	20	sf	75.00	1,500		
606	Handrail at stair 2 roof penthouse steps	12	lf	200.00	2,400		
607	SUBTOTAL					428,950	
608							
609	<b>C2020 STAIR FINISHES</b>						
610							
611	090005 RESILIENT FLOORS						
612	Rubber tile at stairs - landings	3,500	sf	15.00	52,500		
613	Rubber tile at stairs - treads	1,328	lft	19.06	25,312		
614							
615	090007 PAINTING						
616	Paint to staircases including underside	9	flt	3,000.00	27,000		
617	SUBTOTAL					104,812	
618							
619	<b>TOTAL - STAIRCASES</b>						<b>\$533,762</b>

**C30 INTERIOR FINISHES**

**C3010 WALL FINISHES**



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<b>NEW BUILDING</b>							
626	064020 INTERIOR ARCHITECTURAL WOODWORK						
627	FRP wall panels in janitor's closet	967	sf	14.00	13,538		
628	FRP at kitchen & storage	1,914	sf	14.00	NR		
629							
630	090002 TILE						
631	Wall tile at gang toilet rooms; 7'-8" high	9,312	sf	24.00	223,488		
632	Wall tile at single toilet rooms; 7'-8" high	7,464	sf	24.00	179,136		
633	Porcelain wall tile at Servery/Cafeteria area, full height	363	sf	24.00	8,712		
634	Porcelain wall tile at front of kitchen area, full height; kitchen area	2,600	sf	24.00	62,400		
635	Wall tile at corridor drinking fountains	196	sf	22.00	4,312		
636							
637	090007 PAINTING						
638	Paint to GWB	306,297	sf	0.80	245,038		
639	Paint to CMU	13,633	sf	1.25	17,041		
640	Paint to columns in media center	3	loc	75.00	225		
641	Green screen wall paint	145	sf	5.00	725		
642							
643	102601 WALL AND CORNER GUARDS						
644	Wall protection at corridor 1153	677	sf	10.00	6,770		
645							
646	098413 SOUND ABSORBING PANELS						
647	AWP-1; 1" acoustic fabric wrapped panel	152	sf	28.00	4,256		
648	AWP-2-5; 2" acoustic fabric wrapped panel	1,069	sf	32.00	34,208		
649	Gymnasium - acoustic panel	3,100	sf	16.50	51,150		
650							
651	102606 DIGITALLY PRINTED WALL COVERINGS						
652	DPW; Digitally printed protective wall coverings; Koroseal; locations per A9.62	1,800	sf	35.00	63,000		
653	SUBTOTAL					913,999	
654							
655	<b>C3020 FLOOR FINISHES</b>						
656							
657	033000 CONCRETE						
658	Sealed concrete	5,270	sf	2.50	13,175		
659							
660	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
661	Waterproofing membrane throughout all toilet rooms at elevated slab on deck; note 20/A1.71	3,050	sf	4.00	12,200		
662							
663	096000 INTERIOR ARCHITECTURAL WOODWORK						
664	Wood flooring at Platform	860	sf	24.00	20,640		
665							
666	090002 TILE						
667	Floor patching or self leveling compound allowance where necessary, per floor finish general note 15	2,230	sf	0.50	1,115		
668	Quarry tile 6x6	1,850	sf	26.00	48,100		
669	Compressed Quartz tile	380	sf	20.00	7,600		
670	Quarry tile base	340	lf	20.00	6,800		
671							
672	090005 RESILIENT FLOORS						
673	Floor patching or self leveling compound allowance where necessary, per floor finish general note 15	114,717	sf	0.75	86,038		
674	Sheet linoleum (including premium for patterns)	112,067	sf	7.00	784,469		
675	Luxury vinyl tile	110	sf	5.50	605		
676	Luxury vinyl tile - checkerboard pattern	360	sf	6.50	2,340		
677	Rubber flooring at art rooms	2,010	sf	12.00	24,120		
678	Rubber sheet at footgrille transition	18	lf	10.00	180		
679	Static dissipative tile 12x12	170	sf	12.00	2,040		
680	Resilient base	20,308	lf	2.50	50,770		
681							



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<b>NEW BUILDING</b>							
682	096100 ATHLETIC FLOORING						
683	Floor patching or self leveling compound allowance where necessary, per floor finish general note 15	6,865	sf	0.75	5,149		
684	Wood athletic flooring	5,995	sf	19.00	113,905		
685	Wood athletic flooring vented base	360	lf	7.50	2,700		
686	Resilient athletic floor; Taraflex sports M plus	870	sf	12.20	10,614		
687							
688	096700 FLUID APPLIED FLOORING						
689	Epoxy floor at toilet rooms with 6" integral base	5,640	sf	18.00	101,520		
690	Epoxy floors elsewhere (no integral base)	1,360	sf	16.00	21,760		
691							
692	096810 TILE CARPETING						
693	Floor patching or self leveling compound allowance where necessary, per floor finish general note 15	13,675	sf	0.75	10,256		
694	Carpet	9,405	sf	5.00	47,025		
695	Carpet at media center - including premium for patterning per A9.63	4,270	sf	7.00	29,890		
696	Carpet, waste	1,368	sf	5.00	6,840		
697	Area rugs	10,049	sf		NIC		
698	Moisture mitigation -admixture included w/ concrete slabs						
699	SUBTOTAL					1,409,851	
700							
701	<b>C3030 CEILING FINISHES</b>						
702							
703	095000 INTERIOR ARCHITECTURAL WOODWORK						
704	WD-1; linear wood slats w/ black felt scrim above; Armstrong woodworks grille	6,331	sf	40.00	253,240		
705	6" wood trim at wood ceiling to ACT transition; P12/A2.50	475	lf	30.00	14,250		
706	Wood veneer trim on mdf with 2-1/2" mtl studs at proscenium opening; detail 3/A2.50	229	sf	55.00	12,595		
707							
708	090003 ACOUSTICAL TILE						
709	ACP-1, 2x4 Armstrong Calla	82,435	sf	5.00	412,175		
710	ACP-1A, 2x2 Armstrong Calla	32,373	sf	5.80	187,763		
711	ACP-2; 2x4	225	sf	5.00	1,125		
712	ACP-2A; 2x2 Armstrong Calla at Quiet room	318	sf	5.80	1,844		
713	ACP-4; 2x4 Armstrong optima healthzone	2,340	sf	6.50	15,210		
714	ACP-6; 2x4 Armstrong serpentina waves at proscenium; white and maple unperforated finish; curved metal clouds	539	sf	60.00	32,340		
715	ACP-6; 2x4 Armstrong serpentina waves - curved metal clouds at cafeteria; micro perforated with acoustical fill	2,158	sf	50.00	107,900		
716	ACP-6; 2x4 Armstrong serpentina waves - curved metal clouds at corridor 1135 and vestibule 1136; micro perforated with acoustical fill	700	sf	50.00	35,000		
717							
718	090007 PAINTING						
719	Paint to GWB ceilings	15,760	sf	1.50	23,640		
720	Paint ceiling tile and grid black in Green screen & video room	200	sf	2.00	NR		
721	Paint to exposed ceilings including at gym	8,925	sf	2.50	22,313		
722							
723	092900 GYPSUM BOARD ASSEMBLIES						
724	GWB ceiling	3,075	sf	15.00	46,125		
725	GWB ceiling to underside of stair runs/landings	2,339	sf	18.00	42,102		
726	GWB cap above cafeteria bumpouts and deep window sills	243	sf	15.00	3,645		
727	Premium for sound isolation ceiling type B at general office/waiting	615	sf	22.00	13,530		
728	GWB soffits - horizontal	5,954	sf	15.00	89,310		
729	GWB soffits - vertical	6,731	sf	20.00	134,620		
730							





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**NEW BUILDING**

731	098400	SOUND ABSORBING PANELS					
732		Direct attached tectum panels between structure at gym per note on A2.23 (60% of ceiling)	3,597	sf	18.00	Removed from contract	
733		SUBTOTAL					1,448,727

<b>TOTAL - INTERIOR FINISHES</b>							<b>\$3,772,577</b>
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**D10 CONVEYING SYSTEMS**

740	055000	MISCELLANEOUS METALS					
741		Pit ladder	1	ea	2,500.00	2,500	
742		Sill angle	18	lf	25.00	450	
744	142000	ELEVATOR					
745		Hydraulic elevator; 3 stop; 3,500 lbs	1	ea	150,000.00	150,000	
746		SUBTOTAL					152,950

<b>TOTAL - CONVEYING SYSTEMS</b>							<b>\$152,950</b>
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**D20 PLUMBING**

**D20 PLUMBING, GENERALLY**

Equipment

755		Gas fired domestic HW heater 500 MBH with storage	2	ea	28,000.00	56,000	
756		Hot water pump 1.5 GPM	1	ea	1,200.00	1,200	
757		Water meter assembly	1	ea	3,500.00	3,500	
758		Reduced pressure backflow preventer	1	ea	3,000.00	3,000	
759		Connection to gas valve	1	ea	1,200.00	1,200	
760		Mixing valve	1	ea	4,500.00	4,500	
761		Expansion tank	2	ea	2,000.00	4,000	
762		Grease trap	1	ea	3,500.00	3,500	
763		Floor drains	12	ea	650.00	7,800	
764		Roof drains	78	ea	750.00	58,500	
765		Elevator sump pump	1	ea	3,500.00	3,500	
766		Gas solenoid control panel	1	ea	2,500.00	2,500	
767		Hot water heater flues	1	ls	2,000.00	2,000	
768		Exterior grease trap system	1	ls	10,000.00	10,000	

Plumbing Fixtures & Specialties

770		Water closet	87	ea	1,200.00	104,400	
771		Lavatory	57	ea	950.00	54,150	
772		Classroom sink	30	ea	975.00	29,250	
773		Stainless steel sink	9	ea	975.00	8,775	
774		Art room sinks interceptor	4	ea	1,100.00	4,400	
775		Urinal	12	ea	1,400.00	16,800	
776		Drinking fountain	13	ea	2,500.00	32,500	
777		Janitor sink	5	ea	975.00	4,875	

Domestic Water Type L Copper Pipe

779		Domestic water pipe with fittings & hangers	12,000	lf	40.00	480,000	
780		Domestic water pipe insulation	12,000	lf	9.00	108,000	

Sanitary Waste And Vent Pipe w/ Hangers

782		Sanitary waste pipe with fittings & hangers	10,500	lf	44.00	462,000	
783		Kitchen waste pipe with fittings & hangers	1,150	lf	46.00	52,900	

Storm Drainage, Hubless Cast Iron Pipe

785		Storm water pipe with fittings & hangers	3,700	lf	48.00	177,600	
786		Pipe insulation on horizontal runs	3,700	lf	12.00	44,400	

Gas And Fuel Distribution Pipe

788		Gas pipe with fittings & hangers	1,050	lf	110.00	115,500	
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**NEW BUILDING**

789	<u>Miscellaneous</u>							
790	Coordination & BIM	1	ls	62,000.00	62,000			
791	Coring, sleeves & firestopping	1	ls	15,000.00	15,000			
792	Commissioning support	1	ls	12,000.00	12,000			
793	Testing and sterilization	1	ls	10,000.00	10,000			
793	Market adjustment	167,352	sf	2.00	334,704			
794	Fees & permits	1	ls	21,000.00	21,000			
795	SUBTOTAL					2,311,454		
796								
797	<b>TOTAL - PLUMBING</b>							<b>\$2,311,454</b>
798								
799								

<b>D30 HVAC</b>
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801							
802	<b>D30 HVAC, GENERALLY</b>						
803	<u>HVAC Equipment</u>						
804	Gas fired HW boiler 2500 MBH	3	ea	60,000.00	180,000		
805	Chemical treatment system	1	ls	15,000.00	15,000		
806	Expansion tank	1	ea	3,000.00	3,000		
807	Air separator	1	ea	2,000.00	2,000		
808	Radiant ceiling panel	3,470	lf	130.00	451,100		
809	Unit heater HW	25	ea	650.00	16,250		
810	Ductless AC unit with ACCU	10	ea	7,500.00	75,000		
811	<u>Pumps</u>						
812	Hot water pump 500 gpm	2	ea	12,500.00	25,000		
813	Boiler pump 240 GPM	3	ea	6,000.00	NIC		
814	<u>Air distribution</u>						
815	RTU's gas fired heating with DX cooling & ERW	75,940	cfm	15.00	1,139,100		
816	Kitchen make-up air unit	4,500	cfm	6.00	27,000		
817	Kitchen heating & ventilation unit	1,960	cfm	10.00	19,600		
818	VAV unit	141	ea	1,200.00	169,200		
819	VRF outdoor unit	10	ton	2,000.00	20,000		
820	VRF indoor unit	20	ea	2,800.00	56,000		
821	Branch controller	3	ea	4,000.00	12,000		
822	Displacement ventilation system	225	ea	700.00	157,500		
823	<u>Exhaust fans</u>						
824	Exhaust fans	11	ea	3,000.00	33,000		
825	<u>Sheet metal &amp; Accessories</u>						
826	Supply & return galvanized ductwork distribution system	131,000	lbs	11.50	1,506,500		
827	Duct insulation	79,000	sf	4.00	316,000		
828	Combustion air galvanized ductwork distribution system	2,600	lbs	10.25	W/ Plumbing		
829	Kitchen hood exhaust ductwork system	4,000	lbs	14.00	56,000		
830	Sound attenuators	22	ea	5,000.00	110,000		
831	Registers, grilles & diffusers	164	ea	125.00	20,500		
832	Sheet metal accessories	1	ls	50,000.00	50,000		
833	Mechanical louvers	1	ls	5,000.00	5,000		
834	<u>Piping</u>						
835	<u>Hot Water Piping</u>						
836	Hot water piping with fittings & hangers	16,500	lf	40.00	660,000		
837	<u>Refrigerant Piping</u>						
838	Refrigerant piping with fittings & hangers	7,200	lf	26.00	187,200		
839	<u>Condensate Drain Piping</u>						
840	Condensate drain piping with fittings & hangers	3,000	lf	20.00	60,000		
841	<u>Piping Insulation</u>						



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167,352

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
<b>NEW BUILDING</b>								
842	Piping insulation	26,700	lf	9.00	240,300			
843	<u>Automatic Temperature Controls</u>							
844	Automatic temperature controls DDC	167,352	sf	6.00	1,004,112			
845	<u>Balancing</u>							
846	System testing & balancing	167,352	sf	1.00	167,352			
847	<u>Miscellaneous</u>							
848	Work to extend stair 2 to roof	1	ls	9,000.00		NIC		
849	Coordination & BIM	1	ls	190,000.00	190,000			
850	Commissioning support	1	ls	25,000.00	25,000			
851	Coring, sleeves & fire stopping	1	ls	15,000.00	15,000			
852	Equipment start-up and inspection	1	ls	3,500.00	3,500			
853	Rigging & equipment rental	1	ls	60,000.00	60,000			
854	Vibration & seismic restraints	1	ls	28,000.00	28,000			
855	SUBTOTAL					7,105,214		
856								
857	<b>TOTAL - HVAC</b>							<b>\$7,105,214</b>
858								
859								
860	<b>D40 FIRE PROTECTION</b>							
861								
862	<b>D40 FIRE PROTECTION, GENERALLY</b>							
863	<u>Equipment &amp; valves</u>							
864	Double check valve assembly	1	ea	8,500.00	8,500			
865	Wet alarm check valve assembly	1	ea	4,000.00	4,000			
866	Fire department connection	2	ea	1,650.00	3,300			
867	Control valve & TS (each floor)	10	ea	2,500.00	25,000			
868	Fire hose valve	12	ea	700.00	8,400			
869	Sprinkler heads	1,482	ea	85.00	125,970			
870	<u>Sprinkler Piping</u>							
871	Main sprinkler piping with fittings & hangers	6,800	lf	40.00	272,000			
872	Branch sprinkler piping with fittings & hangers	13,300	lf	26.00	345,800			
873	Fire standpipes with fittings & hangers	5	ea	3,600.00	18,000			
874	Drain piping with fittings & hangers	2	ea	2,400.00	4,800			
875	Valves & Specialties	1	ls	40,000.00	40,000			
876	<u>Miscellaneous</u>							
877	Coordination & BIM	1	ls	20,000.00	20,000			
878	Hydraulic calculations	1	ls	8,000.00	8,000			
879	Coring, sleeves & firestopping	1	ls	15,000.00	15,000			
880	Shop drawings	1	ls	5,000.00	5,000			
881	Commissioning of system	1	ls	12,000.00	12,000			
882	Fees & permits	1	ls	8,000.00	8,000			
883	SUBTOTAL					923,770		
884								
885	<b>TOTAL - FIRE PROTECTION</b>							<b>\$923,770</b>
886								
887								
888	<b>D50 ELECTRICAL</b>							
889								
890	<b>D5010 ELECTRICAL SYSTEMS</b>							
891	<u>Gear &amp; Distribution</u>							
892	<u>Normal Power</u>							
893	Meter Sockets	1	ea	400.00	400			
894	CT/PT cabinet	1	ea	3,500.00	3,500			
895	3000A 277/480V main switchboard	1	ea	75,000.00	75,000			
896	225A 277/480V panelboard	8	ea	2,400.00	19,200			
897	100A 277/480V panelboard	8	ea	1,400.00	11,200			
898	45KVA K-13 type transformer	18	ea	8,000.00	144,000			
899	225A 208/120V triple tub panelboard	5	ea	7,200.00	36,000			



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<b>NEW BUILDING</b>							
900	225A 208/120V double tub panelboard	9	ea	4,800.00	43,200		
901	225A 208/120V panelboard	2	ea	2,400.00	4,800		
902	100A 208/120V panelboard	2	ea	1,400.00	2,800		
903	100A fused disconnect switch	15	ea	1,000.00	15,000		
904	SPD	43	ea	750.00	32,250		
905	225A feed	1,280	lf	45.00	57,600		
906	100A feed	2,200	lf	20.00	44,000		
907	90A feed	1,800	lf	18.00	32,400		
908	Grounding	1	ls	20,000.00	20,000		
909	<u>Emergency power</u>						
910	250kW diesel generator w/125kW resistive load bank including fuel for testing	1	ea	100,000.00	100,000		
911	600A 277/480V ATS	1	ea	12,000.00	12,000		
912	100A 277/480V ATS	1	ea	3,800.00	3,800		
913	225A 277/480V panelboard	8	ea	2,400.00	19,200		
914	100A 277/480V panelboard	1	ea	1,400.00	1,400		
915	112.5 KVA K-13 type transformer	3	ea	15,400.00	46,200		
916	45KVA dry type transformer	2	ea	5,200.00	10,400		
917	400A 208/120V quadruple panelboard	4	ea	11,850.00	47,400		
918	225A 208/120V double tub panelboard	2	ea	4,800.00	9,600		
919	SPD	7	ea	750.00	5,250		
920	600A feed	60	lf	120.00	7,200		
921	400A feed	60	lf	80.00	4,800		
922	225A feed	100	lf	45.00	4,500		
923	200A feed	1,200	lf	40.00	48,000		
924	150A feed	60	lf	24.00	1,440		
925	100A feed	450	lf	20.00	9,000		
926	<u>UPS System</u>						
927	16kW UPS	2	ea	15,000.00	30,000		
928	225A 208/120V double tub panelboard	2	ea	4,800.00	9,600		
929	100A fused disconnect switch	2	ea	996.00	1,992		
930	70A feed	400	lf	20.00	8,000		
931	<i>Note: Risers and panelboard schedule do not match. Panelboard schedule used for estimate</i>						
932	<u>Photovoltaic system</u>						
933	PV equipment & installation						
934	Future PV system rough in including 1" & 2" conduit to roof	2	loc	5,000.00	10,000		
935	<u>Equipment Wiring</u>						
936	BC 20A feed, connection & 30A NFSS	3	ea	935.00	2,805		
937	Boiler 20A feed, connection & TS	3	ea	715.00	2,145		
938	Gas fired domestic HW heater 500 MBH with storage feed and connection	2	ea	1,250.00	2,500		
939	Chiller 60A feed, connection & 60A FSS WP	1	ea	2,780.00	2,780		
940	CP 20A feed, connection & TS	1	ea	1,095.00	1,095		
941	DCU 20A feed, connection & 30A FSS	10	ea	1,420.00	14,200		
942	DCU 30A feed, connection & 30A FSS	10	ea	1,465.00	14,650		
943	DWH 20A feed, connection & TS	2	ea	1,095.00	2,190		
944	EF 20A feed, connection & TS	6	ea	1,095.00	6,570		
945	EUH 20A feed, connection & 30A NFSS	1	ea	1,320.00	1,320		
946	GF 20A feed & connection	1	ea	1,020.00	1,020		
947	HV 20A feed, connection & 30A NFSS	1	ea	1,320.00	1,320		
948	KEF 20A feed, connection & 30A NFSS	1	ea	1,510.00	1,510		
949	MAU 20A feed, connection & 30A NFSS	1	ea	1,520.00	1,520		
950	Hot water pump 500 gpm feed and connection	2	ea	1,100.00	2,200		
951	Boiler pump 240 GPM feed and connection	3	ea	950.00	2,850		
952	Hot water pump 1.5 GPM feed and connection	1	ea	650.00	650		



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<b>NEW BUILDING</b>							
953	RP 20A feed, connection & TS	2	ea	1,095.00	2,190		
954	RTU 100A feed, connection & 100A FSS WP	8	ea	3,930.00	31,440		
955	RTU 30A feed, connection & 30A FSS WP	1	ea	1,820.00	1,820		
956	SV 20A feed, connection & TS	1	ea	905.00	905		
957	UH 20A feed, connection & TS	22	ea	1,290.00	28,380		
958	VAV 20A feed, connection & TS	136	ea	600.00	81,600		
959	VRF outdoor unit feed and connection	8	ton	940.00	7,520		
960	VRF indoor unit feed and connection	20	ea	940.00	18,800		
961	Chemical treatment system feed and connection	1	ls	2,500.00	2,500		
962	Kitchen:						
963	20A feed & connection	2	ea	500.00	1,000		
964	20A feed, connection & TS	13	ea	500.00	6,500		
965	20A feed, connection & 30A NFSS	6	ea	650.00	3,900		
966	20A feed, connection & 30A FSS	2	ea	650.00	1,300		
967	60A feed, connection & 60A FSS	1	ea	1,300.00	1,300		
968	70A feed, connection & 100A FSS	1	ea	1,400.00	1,400		
969	Elevator 125A feed, connection & 200A FSS	1	ea	3,500.00	3,500		
970	Elevator cab 20A feed, connection & 30A FSS	1	ea	1,500.00	1,500		
971	SUBTOTAL					1,188,012	
972							
973	<b>D5020 LIGHTING &amp; POWER</b>						
974	<u>Lighting &amp; Branch Power</u>						
975	Exit sign	67	ea	220.00	14,740		
976	J	11	ea	250.00	2,750		
977	LG3	32	ea	500.00	16,000		
978	LK24	26	ea	320.00	8,320		
979	LP4	111	ea	320.00	35,520		
980	LP8	402	ea	650.00	261,300		
981	LPD2	1	ea	400.00	400		
982	LPD3	1	ea	500.00	500		
983	LPG	29	ea	1,000.00	29,000		
984	LR2	17	ea	200.00	3,400		
985	LR4	166	ea	280.00	46,480		
986	LR4A	18	ea	300.00	5,400		
987	LR6	56	ea	400.00	22,400		
988	LR8	46	ea	550.00	25,300		
989	LR8A	3	ea	600.00	1,800		
990	LR10	6	ea	900.00	5,400		
991	LR24	57	ea	260.00	14,820		
992	LRD2	74	ea	400.00	29,600		
993	LRD3	5	ea	500.00	2,500		
994	LRD4	2	ea	600.00	1,200		
995	LS2	1	ea	280.00	280		
996	LS4	39	ea	350.00	13,650		
997	LS4A	2	ea	350.00	700		
998	LS8	47	ea	500.00	23,500		
999	LS8A	20	ea	550.00	11,000		
1000	LSV4	5	ea	300.00	1,500		
1001	LV4	8	ea	300.00	2,400		
1002	LWS	570	lf	120.00	68,400		
1003	PC1	12	ea	750.00	9,000		
1004	PC2	21	ea	750.00	15,750		
1005	RC1	342	ea	320.00	109,440		
1006	RC2	20	ea	320.00	6,400		
1007	RCW	6	ea	350.00	2,100		
1008	SL4	13	ea	750.00	9,750		



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<b>NEW BUILDING</b>							
1009	SL5	7	ea	650.00	4,550		
1010	Recessed fixture not labelled	21	ea	500.00	10,500		
1011	Media Center Track	26	lf	45.00	1,170		
1012	Media Center track heads	9	ea	450.00	4,050		
1013	<u>Lighting controls</u>						
1014	Networked lighting control system	1	ls	250,000.00	250,000		
1015	Single pole switch	7	ea	22.00	154		
1016	MTS	1	ea	650.00	650		
1017	Single pole low voltage switch	207	ea	25.00	5,175		
1018	Single pole switch wp	11	ea	32.00	352		
1019	Sk	8	ea	45.00	360		
1020	Occupancy sensor	282	ea	220.00	62,040		
1021	Photo sensor	88	ea	150.00	13,200		
1022	ALC	1	ea	1,500.00	1,500		
1023	<u>Branch devices</u>						
1024	Duplex receptacle	810	ea	23.00	18,630		
1025	Double duplex receptacle	430	ea	46.00	19,780		
1026	Double duplex receptacle in floor box	6	ea	46.00	276		
1027	GFI duplex receptacle	316	ea	38.00	12,008		
1028	Special purpose receptacle	37	ea	75.00	2,775		
1029	Cord reel	8	ea	600.00	4,800		
1030	2 gang floor box	6	ea	300.00	1,800		
1031	<u>Lighting and branch circuitry</u>						
1032	WP device plate	23	ea	16.00	368		
1033	Device plate	1,750	ea	4.00	7,000		
1034	Device box	3,334	ea	20.00	66,680		
1035	3/4" EMT	30,000	lf	6.50	195,000		
1036	#12 THHN	135,000	lf	0.75	101,250		
1037	Cat cabling	11,000	lf	2.00	22,000		
1038	12-2 MC cable	30,000	lf	3.85	115,500		
1039	12-3 MC cable	12,000	lf	4.60	55,200		
1040	1" conduit in slab	200	lf	9.00	1,800		
1041	Low voltage lighting control circuitry	15,000	lf	2.00	30,000		
1042	SUBTOTAL					1,809,268	
1043							
1044	<b>D5030 COMMUNICATION &amp; SECURITY SYSTEMS</b>						
1045	<u>Fire Alarm</u>						
1046	Fire alarm control panel	1	ea	30,000.00	30,000		
1047	Fire alarm remote annunciator	2	ea	1,200.00	2,400		
1048	Fire alarm terminal cabinet	2	ea	1,200.00	2,400		
1049	Knox box	2	ea	600.00	1,200		
1050	Exterior beacon	2	ea	300.00	600		
1051	Master box	1	ea	1,600.00	1,600		
1052	Bell	2	ea	320.00	640		
1053	Manual pull station	24	ea	100.00	2,400		
1054	Smoke/heat detector	129	ea	135.00	17,415		
1055	CO detector	21	ea	135.00	2,835		
1056	Duct smoke detector, allow	21	ea	400.00	8,400		
1057	Audio/visual device	35	ea	135.00	4,725		
1058	Audio/visual device with A, not scheduled, allow amber mass notification device	75	ea	150.00	11,250		
1059	Speaker light	81	ea	140.00	11,340		
1060	A ceiling, not scheduled, allow amber mass notification device	81	ea	135.00	10,935		
1061	Visual device	66	ea	120.00	7,920		
1062	FP equipment connection	17	ea	150.00	2,550		



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<b>NEW BUILDING</b>							
1063	Kitchen connection	1	ea	150.00	150		
1064	Elevator recall connection	2	ea	150.00	300		
1065	Gas detection monitor	9	ea	150.00	1,350		
1066	Wireguard	4	ea	35.00	140		
1067	Control/monitor module	61	ea	150.00	9,150		
1068	Device box	640	ea	20.00	12,800		
1069	3/4" EMT	6,500	lf	6.50	42,250		
1070	#14 THHN	19,000	lf	0.61	11,590		
1071	FA cable	3,200	lf	0.65	2,080		
1072	MC cable	22,000	lf	3.85	84,700		
1073	Testing and programming	1	ls	11,000.00	11,000		
1074	<u>Bi-Directional Amplification System</u>						
1075	BDA	1	ls	75,000.00	75,000		
1076	<u>Security System</u>						
1077	Head-end and mics. increases per engineer	1	ls	100,000.00	100,000		
1078	AI, video intercom/door release station	4	ea	750.00	3,000		
1079	CCTV camera	78	ea	750.00	58,500		
1080	CCTV camera WP	17	ea	950.00	16,150		
1081	Card reader	32	ea	350.00	11,200		
1082	Keypad	5	ea	350.00	1,750		
1083	Panic button	1	ea	120.00	120		
1084	Motion button	55	ea	120.00	6,600		
1085	Device box with conduit stub	192	ea	85.00	16,320		
1086	Security cabling	11,000	lf	1.25	13,750		
1087	<u>Telephone/Data/CATV</u>						
1088	Telecommunications rough in:						
1089	Telecommunications increase per engineers comments	1	ls	70,000.00	70,000		
1090	MDF fit out	1	ls	2,500.00	2,500		
1091	IDF fit out	3	ea	2,500.00	7,500		
1092	System rack	12	ea	2,000.00	24,000		
1093	Backboard	4	ea	500.00	2,000		
1094	Closet grounding	4	ea	350.00	1,400		
1095	4" conduit sleeves, allow	12	ea	150.00	1,800		
1096	4" conduit, allow 2-4" from MDF to each IDF	1,000	lf	22.00	22,000		
1097	Cable tray, allow	325	lf	35.00	11,375		
1098	1 gang box with 1" conduit	70	ea	95.00	6,650		
1099	1 gang box with 2-1" conduit	455	ea	160.00	72,800		
1100	1 gang box with 1" & 1.25" conduit	216	ea	200.00	43,200		
1101	WAP back box	104	ea	55.00	5,720		
1102	Telecommunications devices & cabling:						
1103	Telephone port	87	ea	18.00	1,566		
1104	1 port device	2	ea	18.00	36		
1105	2 port device	316	ea	36.00	11,376		
1106	3 port device	50	ea	54.00	2,700		
1107	AV, blank cover plate	216	ea	5.00	1,080		
1108	Call button	70	ea	18.00	1,260		
1109	WAP 2 port device	104	ea	300.00	31,200		
1110	Cat cabling	175,000	lf	1.25	218,750		
1111	School wide local area network switches, allow per engineers budget	1	ls	180,000.00	180,000		
1112	Digital signage system per engineers budget	1	ls	20,000.00	20,000		
1113	Computer network equipment					FF&E	
1114	Mobile computer carts and lockers					FF&E	
1115	Network printer equipment					FF&E	
1116	Cafeteria point of sale equipment					FF&E	
1117	Visitor management system					FF&E	



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<b>NEW BUILDING</b>								
1118	Wireless					FF&E		
1119	<u>PA/Clock System</u>							
1120	Head-end	1	ls	20,000.00	20,000			
1121	Clock	132	ea	120.00	15,840			
1122	Speaker ceiling mount	265	ea	120.00	31,800			
1123	Speaker with volume control	113	ea	160.00	18,080			
1124	Speaker wall mount	4	ea	150.00	600			
1125	Speaker back box	378	ea	65.00	24,570			
1126	Device box with conduit stub	136	ea	95.00	12,920			
1127	MC cable	8,000	lf	3.85	30,800			
1128	Speaker cabling	19,000	lf	1.10	20,900			
1129	<u>Audio/Visual systems</u>							
1130	AV equipment					By Owner		
1131	Instructional video presentation equipment					FF&E		
1132	Portable video presentation system equipment					FF&E		
1133	Rack, gym/café	1	ea			By Owner		
1134	HS, horn speaker	3	ea			By Owner		
1135	M, microphone	5	ea			By Owner		
1136	M2, microphone	1	ea			By Owner		
1137	PC, AV interface outlet	2	ea			By Owner		
1138	Projector	1	ea			By Owner		
1139	S4 Gym interface outlet	8	ea			By Owner		
1140	S4 Ceiling speaker	8	ea			By Owner		
1141	W, assisted listening and microphone antenna	1	ea			By Owner		
1142	WA, assisted listening and microphone antenna	2	ea			By Owner		
1143	Allowance for Gym system per engineers budget	1	ls	15,000.00	15,000			
1144	Rough-In conduit and backboxes only	32	ea	350.00	11,200			
1145	Classroom audio system	66	rooms	2,200.00	145,200			
1146	Cafeteria sound system per engineers budget	1	ls	25,000.00	25,000			
1147	<u>Gymnasium</u>							
1148	Scoreboard with feed and connection	2	ea	15,000.00	30,000			
1149	Backstop feed and connections	2	ea	1,500.00	3,000			
1150	Equipment feed and connections	3	ea	1,500.00	4,500			
1151	Sound system	1	ls	20,000.00	20,000			
1152	<u>Auditorium</u>							
1153	Dimmer system/ stage lighting	1	ls	35,000.00	35,000			
1154	Performance lighting rough-in & power	1	ls	15,000.00	15,000			
1155	TH1	12	ea			Included		
1156	TH2	6	ea			Included		
1157	Audio visual system equipment	1	ls	75,000.00	75,000			
1158	Audio/visual rough-in & power	1	ls	30,000.00	30,000			
1159	SUBTOTAL						1,919,833	
1160								
1161	<b>D5040 OTHER ELECTRICAL SYSTEMS</b>							
1162	<u>Miscellaneous</u>							
1163	Temp power and lights	167,352	sf	0.50	83,676			
1164	Commissioning support	1	ls	15,000.00	15,000			
1165	Coordination and studies	1	ls	50,000.00	50,000			
1166	Seismic restraints	1	ls	10,000.00	10,000			
1167	UL Master Label Lightning Protection System	167,352	sf	0.40	66,941			
1168	Fees & Permits	1	ls	55,000.00	55,000			
1169	SUBTOTAL						280,617	
1170								
1171	<b>TOTAL - ELECTRICAL</b>							<b>\$5,197,730</b>
1172								
1173								
1174	<b>E10 EQUIPMENT</b>							





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<b>NEW BUILDING</b>							
1175							
1176	<b>E10 EQUIPMENT, GENERALLY</b>						
1177							
1178	113013 APPLIANCES						
1179	Microwave	6	loc	800.00	4,800		
1180	Refrigerator - side by side	5	loc	2,000.00	10,000		
1181	Washer/dryer pair, locate in Recycling Room #1164	1	pr	5,000.00	5,000		
1182	Washer/dryer pair, locate in Custodial Storage #2115	1	pr	5,000.00	5,000		
1183	Defibrillator units	4	ea	1,500.00	6,000		
1184	Lego plate wall; B20/A9.71	163	sf	32.00	5,216		
1185							
1186	<u>FF&amp;E Items</u>						
1187	Ride-on floor scrubber machines ; (220 volt power)	2	ea			FF&E	
1188	Backpack vacuums	2	ea			FF&E	
1189	Man-lift/ scissor lift – max 32" wide x 6'-8" tall (Door opening sized)	1	ea			FF&E	
1190	Pallet jack – max 32" wide	1	ea			FF&E	
1191	Desk lifter/ jack/ mover	1	ea			FF&E	
1192	Floor buffer machines	2	ea			FF&E	
1193	Carpet Extractors	2	ea			FF&E	
1194	Rolling metal ladder-stairs - 6' standing height (re. Lowes)	2	ea			FF&E	
1195	Type IA Ladders – (1) 24' extension; (1) 18' extension; (1) 10' scissor type	3	ea			FF&E	
1196	Pottery wheel	2	ea			FF&E	
1197	Hoyer lift at rise toilet	1	ea			FF&E	
1198							
1199	111313 LOADING DOCK BUMPERS						
1200	Loading dock bumpers	1	ls	750.00	750		
1201							
1202	114000 FOOD SEERVICE EQUIPMENT						
1203	Food Service equipment (dated 5/14/19)	1	ls	499,435.00	499,435		
1204							
1205	115213 PROJECTION SCREENS						
1206	Projection screen at platform room facing Café 227" diagonal per specifications	1	ls	4,490.10	4,490		
1207	Projection screen at platform room facing Gym 272" diagonal per specifications	1	ls	5,610.60	5,611		
1208	Projection screen at media/library					none shown	
1209							
1210	116050 THEATRICAL EQUIPMENT						
1211	Stage curtain and rigging	1	ls	28,000.00	28,000		
1212							
1213	116623 GYM EQUIPMENT						
1214	Basketball backstops; swing up; electric operated	6	ea	10,000.00	60,000		
1215	Gym wall pads (north and south walls)	696	sf	18.00	12,528		
1216	Wall pads at de-esc rooms	588	sf	18.00	10,584		
1217	Gymnasium roll-up fabric divider; electrically operated	1	loc	30,240.00	30,240		
1422	Telescoping bleachers motorized; 300 person capacity	1	ls	39,000.00	39,000		
1218	Miscellaneous equipment; climbing wall, volley ball stanchions etc.	1	ls	2,000.00	2,000		
1219							
1220	118227 WASTE COMPACTORS						
1221	Waste compactor; per specifications	1	loc			Assumed FF&E	
1222							
1223	119513 KILN						
1224	Kiln	1	ea	5,000.00	5,000		
1225	SUBTOTAL						733,654
1226							



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW BUILDING**

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<b>TOTAL - EQUIPMENT</b>							<b>\$733,654</b>
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<b>E20 FURNISHINGS</b>
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**E2010 FIXED FURNISHINGS**

123200 CASEWORK

Art

Base cabinet with epoxy resin counter; per note 13/AQ1.23

**82** lf 500.00 41,000

TS 24

**4** ea 1,000.00 4,000

Upper cabinets - 32" high

**46** lf 285.00 13,110

Cafeteria

Recycling counter at cafeteria 7'-0" wide

**3** ea 600.00 1,800

Collaboration

2 tier wall shelving

**137** lf 120.00 16,440

3 tier wall shelving

**69** lf 160.00 11,040

Base cabinet with 4 drawers and counter

**10** lf 420.00 4,200

Base cabinet with plam counter

**68** lf 400.00 27,200

Open base shelving with counter 2 tier

**11** lf 360.00 3,960

TS 30 with markerboard surface on face of door

**12** ea 1,400.00 16,800

TS 33 with markerboard surface on face of door

**3** ea 1,600.00 4,800

TS 33 with peg board on inside of door and markerboard surface on face of door

**1** ea 1,800.00 1,800

TW 36

**1** ea 1,800.00 1,800

TW 36 marker board fronts, lockable

**14** ea 2,000.00 28,000

TW 39

**2** ea 2,000.00 4,000

Wall hung counter

**126** lf 250.00 31,500

Copy / Mail room

Base cabinet with plam counter

**15** lf 400.00 6,000

Island counter with base cabinet 4'-0" wide

**10** lf 750.00 7,500

Upper cabinets - 30" high

**3** lf 285.00 855

Upper mail slots at copy mail room

**12** lf 700.00 8,400

Connect 2220

Base cabinet with 5 drawers and counter

**2** lf 440.00 880

Base cabinet with plam counter

**16** lf 400.00 6,400

Laptop cart cabinet 36

**1** ea 1,700.00 1,700

Open base shelving with counter 2 tier

**19** lf 5,000.00 95,000

TS 36

**2** ea 1,500.00 3,000

Upper cabinets - 24" high

**3** lf 250.00 750

Upper cabinets - 32" high

**15** lf 285.00 4,275

Connect 3219

Base cabinet with 4 drawers and counter

**2** lf 420.00 840

Base cabinet with plam counter

**19** lf 400.00 7,600

Laptop cart cabinet 36

**1** ea 1,700.00 1,700

Open base shelving with counter 2 tier

**9** lf 360.00 3,240

Shallow base cabinet with plam counter

**8** lf 300.00 2,400

TS 33

**1** ea 1,400.00 1,400

TS 36

**2** ea 1,600.00 3,200

TS 42

**2** ea 2,000.00 4,000

TW 36

**1** ea 1,800.00 1,800

Upper cabinets - 24" high

**3** lf 250.00 750

Upper cabinets - 32" high

**18** lf 285.00 5,130

Custodial shop

Work bench

**12** lf 600.00 7,200

ELA

Island - base cabinet with solid surface countertop

**159** lf 550.00 87,450



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>NEW BUILDING</b>							
1283	<i>Ensemble</i>						
1284	Base cabinet with plam counter	12	lf	400.00	4,800		
1285	<i>Exam</i>						
1286	Base cabinet with plam counter	6	lf	400.00	2,400		
1287	TS 30	1	ea	1,200.00	1,200		
1288	TS 33	1	ea	1,400.00	1,400		
1289	Upper cabinets - 24" high	6	lf	250.00	1,500		
1290	Wall hung counter	4	lf	250.00	1,000		
1291	<i>IT office/repair</i>						
1292	2 tier wall shelving	19	lf	120.00	2,280		
1293	Base cabinet with plam counter	19	lf	400.00	7,600		
1294	<i>Kindergarten ; typical Q7/A1.51</i>	9	rms				
1295	2'-9"x56" Double cubbie	99	lf	750.00	74,250		
1296	Base cabinet with plam counter	99	lf	400.00	39,600		
1297	Laptop cart cabinet 36	9	ea	1,700.00	15,300		
1298	Open base shelving with counter 2 tier	99	lf	360.00	35,640		
1299	Open base shelving, 3 tier	27	lf	265.00	7,155		
1300	Shallow base cabinet with plam counter	72	lf	300.00	21,600		
1301	TS 36	9	ea	1,600.00	14,400		
1302	TW 36	9	ea	1,800.00	16,200		
1303	Upper cabinets - 24" high	27	lf	250.00	6,750		
1304	Upper cabinets - 32" high	90	lf	285.00	25,650		
1305	Upper cabinets above cubbies 32"	99	lf	230.00	22,770		
1306	<i>Maker space</i>						
1307	Base cabinet with 4 tier open shelving above	12	lf	700.00	8,400		
1308	Base cabinet with plam counter	28	lf	400.00	11,200		
1309	TS 33 with markerboard surface on face of door	6	ea	1,600.00	9,600		
1310	TS 33 with peg board on inside of door and markerboard surface on face of door	2	ea	1,800.00	3,600		
1311	Upper cabinets - 24" high	6	lf	250.00	1,500		
1312	Upper cabinets - 30" high	15	lf	285.00	4,275		
1313	Wall hung counter	7	lf	250.00	1,750		
1314	<i>Music</i>	2	rms				
1315	Base cabinet with plam counter	14	lf	400.00	5,600		
1316	Music instrument storage	48	lf	800.00	38,400		
1317	Open base shelving with counter 2 tier	68	lf	360.00	24,480		
1318	Upper cabinets - 32" high	14	lf	285.00	3,990		
1319	<i>OT 1134</i>						
1320	TW 48	2	ea	2,400.00	4,800		
1321	<i>Music practice</i>						
1322	TS 36	2	ea	1,600.00	3,200		
1323	<i>Pre-K ; typical F7/AQ1.50</i>	4	rms				
1324	2'-9"x56" Double cubbie	44	lf	750.00	33,000		
1325	Base cabinet with plam counter	40	lf	400.00	16,000		
1326	Laptop cart cabinet 36	4	ea	1,700.00	6,800		
1327	Open base shelving with counter 2 tier	40	lf	360.00	14,400		
1328	Shallow base cabinet with plam counter	52	lf	300.00	15,600		
1329	TS 36	4	ea	1,600.00	6,400		
1330	TW 33	4	ea	1,650.00	6,600		
1331	Upper cabinets - 24" high	12	lf	250.00	3,000		
1332	Upper cabinets - 32" high	32	lf	285.00	9,120		
1333	Upper cabinets above cubbies 32"	44	lf	230.00	10,120		
1334	<i>Pre-K rise</i>						
1335	2'-9"x56" Double cubbie	16	lf	750.00	12,000		
1336	Base cabinet with 6 drawers and counter	3	lf	460.00	1,380		
1337	Base cabinet with plam counter	15	lf	400.00	6,000		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>NEW BUILDING</b>							
1338	TS 36	2	ea	1,600.00	3,200		
1339	TW 36	1	ea	1,800.00	1,800		
1340	Upper cabinets - 24" high	3	lf	250.00	750		
1341	Upper cabinets - 32" high	14	lf	285.00	3,990		
1342	Upper cabinets above cubbies 32"	16	lf	230.00	3,680		
1343	<i>PT 1132</i>						
1344	3 tier wall shelving	10	lf	160.00	1,600		
1345	Open base shelving with counter 2 tier	18	lf	360.00	6,480		
1346	TS 48	3	ea	2,200.00	6,600		
1347	Upper cabinets - 24" high	2	lf	250.00	500		
1348	Upper cabinets - 32" high	2	lf	285.00	570		
1349	<i>Resource room</i>						
1350	2 tier wall shelving	11	lf	120.00	1,320		
1351	Base cabinet with plam counter	5	lf	400.00	2,000		
1352	Wall hung counter	11	lf	250.00	2,750		
1353	<i>Rise 2227</i>						
1354	Base cabinet with plam counter	29	lf	400.00	11,600		
1355	Open base shelving with counter 2 tier	8	lf	360.00	2,880		
1356	TS 36	2	ea	1,600.00	3,200		
1357	Upper cabinets - 24" high	3	lf	250.00	750		
1358	Upper cabinets - 32" high	18	lf	285.00	5,130		
1359	<i>Rise 3221</i>						
1360	Base cabinet with plam counter	18	lf	400.00	7,200		
1361	Laptop cart cabinet 36	1	ea	1,700.00	1,700		
1362	Open base shelving with counter 2 tier	17	lf	360.00	6,120		
1363	TS 36	2	ea	1,600.00	3,200		
1364	TS 39	1	ea	1,800.00	1,800		
1365	Upper cabinets - 24" high	15	lf	250.00	3,750		
1366	Upper cabinets - 32" high	14	lf	285.00	3,990		
1367	<i>Staff dining</i>						
1368	Base cabinet with 6 drawers and counter	3	lf	460.00	1,380		
1369	Base cabinet with plam counter	9	lf	400.00	3,600		
1370	Upper cabinets - 24" high	3	lf	250.00	750		
1371	Upper cabinets - 32" high	9	lf	285.00	2,565		
1372	<i>Storage</i>						
1373	5 tier wall shelving	13	lf	250.00	3,250		
1374	<i>Storage/copy</i>						
1375	5 tier wall shelving	10	lf	250.00	2,500		
1376	Base cabinet with plam counter	10	lf	400.00	4,000		
1377	<i>Student services vestibule/copy</i>						
1378	3 tier wall shelving	15	lf	160.00	2,400		
1379	Base cabinet with plam counter	18	lf	400.00	7,200		
1380	TS 33	2	ea	1,400.00	2,800		
1381	TS 36	5	ea	1,600.00	8,000		
1382	TW 36	3	ea	1,800.00	5,400		
1383	Upper cabinets - 32" high	18	lf	285.00	5,130		
1384	Wall hung counter	14	lf	250.00	3,500		
1385	<i>Student services</i>						
1386	2 tier wall shelving	106	lf	120.00	12,720		
1387	Wall hung counter	106	lf	250.00	26,500		
1388	<i>Title 1 office</i>						
1389	3 tier wall shelving	25	lf	160.00	4,000		
1390	TS 36	6	ea	1,600.00	9,600		
1391	TW 36	2	ea	1,800.00	3,600		
1392	Wall hung counter	25	lf	250.00	6,250		
1393	<i>Typical 2nd floor classroom ; A8/AQ1.55</i>	16	rms				



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
<b>NEW BUILDING</b>								
1394	Base cabinet with plam counter	288	lf	400.00	115,200			
1395	Laptop cart cabinet 36	16	ea	1,700.00	27,200			
1396	Open base shelving with counter 2 tier	176	lf	360.00	63,360			
1397	Open base shelving with counter, 3 tier	80	lf	385.00	30,800			
1398	TS 36	16	ea	1,600.00	25,600			
1399	TW 36	16	ea	1,800.00	28,800			
1400	Upper cabinets - 32" high	176	lf	285.00	50,160			
1401	Typical 3rd floor classroom ; J8/AQ1.55	24	rms					
1402	Base cabinet with plam counter	432	lf	400.00	172,800			
1403	Laptop cart cabinet 36	24	ea	1,700.00	40,800			
1404	Open base shelving with counter 2 tier	264	lf	360.00	95,040			
1405	Open base shelving with counter, 3 tier	120	lf	385.00	46,200			
1406	TS 36	24	ea	1,600.00	38,400			
1407	TW 36	24	ea	1,800.00	43,200			
1408	Upper cabinets - 32" high	264	lf	285.00	75,240			
1409	Mobile units					assume FF+E		
1410	Closet shelving	1	ls	10,000.00	10,000			
1411								
1412	012410 WINDOW TREATMENT							
1413	Window shades at interior doors, sidelights, storefront and borrowed light openings; light filtering	4,998	sf	7.00	34,986			
1414	Window shades at exterior glazing; light filtering and room darkening	10,454	sf	10.00	104,540			
1415	Premium for motorized shades		sf	20.00	none shown			
1416								
1417	124810 ENTRANCE FLOOR MAT AND FRAMES							
1418	Foot grilles	1,005	sf	55.00	55,275			
1419	Walk off mat	105	sf	12.00	1,260			
1420								
1421	126613 TELESCOPING BLEACHERS							
1423	SUBTOTAL					2,296,196		
1424								
1425	<b>E2020 MOVABLE FURNISHINGS</b>							
1426	All movable furnishings to be provided and installed by owner							
1427	SUBTOTAL						NIC	
1428								
1429	<b>TOTAL - FURNISHINGS</b>							<b>\$2,296,196</b>
1430								
1431								
1432	<b>F10 SPECIAL CONSTRUCTION</b>							
1433								
1434	<b>F10 SPECIAL CONSTRUCTION</b>							
1435	No items in this section							
1436	SUBTOTAL							
1437								
1438	<b>TOTAL - SPECIAL CONSTRUCTION</b>							
1439								
1440								
1441	<b>F20 SELECTIVE BUILDING DEMOLITION</b>							
1442								
1443	<b>F2010 BUILDING ELEMENTS DEMOLITION</b>							
1444	No items in this section							
1445	SUBTOTAL							
1446								
1447	<b>F2020 HAZARDOUS COMPONENTS ABATEMENT</b>							
1448	See main summary for HazMat allowance						See Summary	
1449	SUBTOTAL							
1450								
1451	<b>TOTAL - SELECTIVE BUILDING DEMOLITION</b>							

60% Construction Documents Estimate

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

<b>G</b>	<b>SITWORK</b>
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**G10 SITE PREPARATION & DEMOLITION**

1							
2							
3							
4							
5	Sitework preparation bid	1	ls	1,228,394.00	1,228,394		
6	Sitework earthwork bid	1	ls	833,440.00	833,440		
7	<u>Site Demolitions and Relocations</u>						
8	Site construction fence/barricades allowance	5,500	lf	25.00	Early Bid		
9	Site construction fence/barricades allowance phase allowance	2,640	lf	25.00	Early Bid		
10	Jersey barriers	1	ls	29,600.00	Early Bid		
11	Allowance for clearing & grubbing at North wood area	5	acres	6,500.00	Early Bid		
12	Clearing existing shrubs	500	sf	3.00	Early Bid		
13	Demolition of existing concrete sidewalks / pads / etc.	17,363	sf	1.25	Early Bid		
14	Demolition of existing bituminous concrete / crush and re use for base	107,450	sf	1.25	Early Bid		
15	Demolition of existing wooded fiber mulch	12,920	sf	1.00	Early Bid		
16	Sawcut existing pavement	70	lf	8.00	Early Bid		
17	Demolition of existing overhead electric and pole	525	lf	12.00	Early Bid		
18	Demolition of existing hydrant	2	ea	400.00	Early Bid		
19	Demolition of existing sewer line	815	lf	10.00	Early Bid		
20	Demolition of existing water line	1,400	lf	10.00	Early Bid		
21	Demolition of existing drainage lateral	52	lf	10.00	Early Bid		
22	Demolition of existing gas service line	300	lf	10.00	Early Bid		
23	Cut and cap gas service	1	loc	1,500.00	Early Bid		
24	Cut and cap water service	2	loc	1,500.00	Early Bid		
25	Cut and cap sewer service	1	loc	1,500.00	Early Bid		
26	Demolition of existing 2" metal guardrail	130	lf	10.00	Early Bid		
27	Demolition of existing backstop	1	loc	1,000.00	Early Bid		
28	Demolition of existing dugouts and footings	2	loc	1,200.00	Early Bid		
29	Demolition of existing gazebo and footings	1	loc	1,200.00	Early Bid		
30	Demolition of existing concessions stand and steps	1	loc	1,500.00	Early Bid		
31	Demolition of existing infield mix	19,550	sf	1.00	Early Bid		
32	Demolition of existing concrete feature	1	loc	500.00	Early Bid		
33	Demolition of existing trees	3	ea	1,000.00	Early Bid		
34	Demolition of existing benches	10	ea	150.00	Early Bid		
35	Demolition of existing sign	1	ea	500.00	Early Bid		
36	Demolition of existing bleachers	1	loc	750.00	Early Bid		
37	Demolition of existing bollards	3	ea	75.00	Early Bid		
38	Demolition of existing boulder	1	ea	200.00	Early Bid		
39	Demolition of existing concrete walls	90	lf	15.00	Early Bid		
40	Demolition of existing steps	80	lf	10.00	Early Bid		
41	Demolition of existing segmental retaining walls	225	lf	15.00	Early Bid		
42	Demolition of existing drain manhole	1	ea	250.00	Early Bid		
43	Demolition of existing catch basin	3	ea	200.00	Early Bid		
44	Demolition of existing flagpole	1	ea	500.00	Early Bid		
45	Demolition of existing 36" RCP drainage line	1,018	lf	20.00	Early Bid		
46	Demolition of existing fence	1,465	lf	10.00	Early Bid		
47	Remove existing rocks	15	ea	75.00	Early Bid		
48	Demolition of existing railings	110	lf	10.00	Early Bid		
49	Demolition of existing landscape timber wall	505	lf	10.00	Early Bid		
50	Demolition of existing play equipment	1	ls	3,500.00	Early Bid		
51	Misc. site demo - fencing, retaining walls, etc.	1	ls	25,000.00	Early Bid		
52	<u>Site Earthwork</u>				Early Bid		
53	Strip topsoil	11,448	cy	7.00	Early Bid		
54	Cut unsuitables under building	4,849	cy	10.00	Early Bid		
55	Cut	25,829	cy	10.00	Early Bid		
56	Fill w/ existing material; general; geotechnical report indicates existing material may be suitable for general fill	18,205	cy	14.00	Early Bid		

60% Construction Documents Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>SITWORK</b>							
57	Remove excess material off site; assumed clean material	12,473	cy	16.00	Early Bid		
58	Reconciled cost for ledge removal	1	ls	150,000.00	Early Bid		
59	Sheeting along retaining wall	1	ls	200,000.00	Early Bid		
60	Allowance for boulder removal	1	ls	50,000.00	Early Bid		
61	Fine grading	73,955	sy	1.25	Early Bid		
62	Silt fence/erosion control	4,094	lf	12.00	Early Bid		
63	Silt fence/erosion control	2,600	lf	12.00	Early Bid		
64	Construction entrances	1,250	sf	6.00	Early Bid		
65	Inlet protection	110	ea	325.00	Early Bid		
66	Erosion control maintenance	1	ls	30,000.00	Early Bid		
67	<u>Hazardous Waste Remediation</u>						
68	Contaminated soil allowance	1	ls	100,000.00	NIC		
69	SUBTOTAL					2,061,834	
70							
71	<b>G20 SITE IMPROVEMENTS</b>						
72	Sitework improvements earthwork bid	1	ls	1,684,347.00	1,684,347		
73	<u>Roadways and Parking Lots</u>	181,166	sf				
74	gravel base; 8" thick	4,496	cy	40.00	Early Bid		
75	gravel base; 4" thick	2,214	cy	40.00	Early Bid		
76	Asphalt paving; 4" thick	20,130	sy	28.00	Early Bid		
77	VGC	9,215	lf	39.00	Early Bid		
78	Flush VGC	66	lf	38.00	Early Bid		
79	Concrete curb	290	lf	22.00	Early Bid		
80	Cape Cod Berm - 2"	1,580	lf	14.00	Early Bid		
81	Single solid lines, 4" thick	234	spc	20.00	Early bid		
82	Single solid lines, 4" thick	8	spc	75.00	Early bid		
83	Other road markings	1	ls	7,500.00	Early bid		
84	Crosswalk	9	ea	1,200.00	Early bid		
85	Tactile warning surface	4	ea	350.00	1,400		
86	Curb cut	18	ea	350.00	Early Bid		
87	Signage	55	ea	350.00	Early Bid		
88	<u>Pedestrian paving</u>						
89	Bituminous concrete paving - play area / basketball court	5,900	sf	12.00	Early Bid		
90	Bituminous concrete paving - color seal coat and line striping; 2 surface colors & markings	5,900	sf	4.00	23,600		
91	gravel base; 12" thick	219	cy	40.00	Early Bid		
92	<u>Precast Pavers</u>						
93	Bituminous base material for precast pavers - 3"	1,150	sf	3.00	Early Bid		
94	Precast unit pavers	1,150	sf	20.00	23,000		
95	Paving band	225	lf	18.00	4,050		
96	Stone dust paths	810	sf	7.50	6,075		
97	Mulch paths	1,675	sf	4.00	NIC		
98	Concrete paving						
99	concrete sidewalk gravel base - 6"	941	cy	40.00	Early Bid		
100	concrete; 4" thick	50,787	sf	9.00	457,083		
101	Bit concrete walkway						
102	gravel base - 6"	31	cy	40.00	Early Bid		
103	bit concrete; 3" thick	1,700	sf	8.00	Early Bid		
104	HD Concrete paving						
105	HD concrete gravel base - 12"	7	cy	40.00	Early Bid		
106	HD concrete pads; 6" thick	200	sf	12.00	2,400		
107	Generator crushed stone bed	400	sf	6.00	Early Bid		
108	Playground - poured rubber play surface	13,700	sf	18.00	246,600		
109	<u>Site Masonry</u>						
110	Masonry seat walls	60	lf	425.00	25,500		
111	Masonry seat walls; skate deterrents	1	ls	5,000.00	5,000		
111	Masonry piers at ornamental fence along Centre street	7	ea	4,000.00	28,000		
112	Masonry veneer at entry signs / features	6	ea	20,000.00	120,000		
113	Segmental retaining wall	1	ls	156,040.00	Early Bid		

60% Construction Documents Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>SITEWORK</b>							
114	Guardrail at top of retaining wall	190	lf	65.00	12,350		
115	<u>Stairs, Retaining walls and Ramps</u>						
115	Concrete walls at loading dock	1	ls	48,000.00	48,000		
116	Concrete to stair treads	74	lfr	190.00	14,060		
117	Cheek walls	16	lf	200.00	3,200		
118	Ornamental metal hand railings w/ light - galv at stairs	30	lf	160.00	4,800		
119	<u>Fencing</u>						
120	Vinyl clad CLF - 4' high @ baseball	432	lf	40.00	17,280		
121	Vinyl clad CLF - 4' high	3,558	lf	40.00	142,320		
122	Vinyl clad CLF - 4' high gates, single	12	ea	800.00	9,600		
123	Vinyl clad CLF - 4' high gates, double	2	ea	1,600.00	3,200		
124	Ornamental Fencing - 4' high	312	lf	90.00	28,080		
125	Ornamental Fencing - 4' high gates	2	ea	2,500.00	5,000		
126	Ornamental Fencing - 6' high	582	lf	100.00	58,200		
127	Ornamental Fencing - 6' high gates	2	ea	8,000.00	16,000		
128	Vinyl clad CLF at basketball - 6'	190	lf	50.00	9,500		
129	Vinyl clad CLF - 6' high gates, single	1	ea	1,000.00	1,000		
130	Vinyl clad CLF - 6'	642	lf	50.00	32,100		
131	Wood fence type B- cedar	113	lf	150.00	16,950		
132	Wood fence type A- stockade	626	lf	150.00	93,900		
133	Wood and wire fence	172	lf	55.00	NIC		
134	Wood and wire fence gates, single	1	ea	800.00	NIC		
135	Wood and wire fence gates, double	1	ea	1,600.00	NIC		
136	Wood fence allowance	1,000	lf	75.00	75,000		
137	<u>Site Improvements</u>						
138	50' high flagpole	1	ea	10,000.00	10,000		
139	36" Pipe rail @ loading dock North wall	55	lf	150.00	8,250		
140	Utility Bollards	12	ea	800.00	9,600		
141	Trash receptacles	4	ea	1,750.00	7,000		
142	Bike Racks	20	ea	1,500.00	30,000		
143	Wood round seats	20	ea	600.00	NIC		
144	Benches	4	ea	2,800.00	11,200		
145	Café tables and chairs	15	ea	3,500.00	52,500		
146	Garden raised beds - field built	12	ea	1,200.00	NIC		
147	Garden ADA beds - field built	3	ea	1,200.00	NIC		
148	Utility Shed	360	sf	25.00	NIC		
149	Baseball backstop, bleachers & benches	1	loc	40,000.00	40,000		
150	Softball backstop, bleachers & benches	1	loc	25,000.00	25,000		
151	Basketball hoops	1	ea	2,500.00	2,500		
152	Poles with nylon sports net adjacent to baseball backstops; 24' high	240	lf	160.00	38,400		
153	Soccer Goals	12	ea	1,500.00	18,000		
154	Playground equipment (per D&W email 3/13/19)	1	ls	492,154.00	492,154		
155	<u>Landscaping + Sports Fields</u>						
156	gravel base; assume 12" thick	5,446	cy	35.00	Early Bid		
157	Baseball/softball fields; seed	68,000	sf	0.35	23,800		
158	Infield mix	17,000	sf	1.00	17,000		
159	Foul poles / pitcher mound / bases	2	loc	10,000.00	20,000		
160	Soccer fields; seed	62,042	sf	0.35	21,715		
161	Soil amend existing stockpiled soil; assumed amend (spec calls for new topsoil)	12,448	cy	30.00	373,440		
162	Planter beds topsoil - 18"	1,095	cy	50.00	54,750		
163	Upland Seed Mix	230,900	sf	0.25	57,725		
164	Wetland Seed Mix	33,540	sf	0.25	8,385		
165	Swale	1,100	lf	6.00	6,600		
166	<u>Evergreen Trees</u>						
167	Eastern Red Cedar 7' - 8' ht	30	ea	1,000.00	30,000		
168	White Spruce 10' - 12' ht	71	ea	1,500.00	106,500		
169	Green Giant Arborvitae 10' - 12' ht	13	ea	1,500.00	19,500		



60% Construction Documents Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>SITEWORK</b>							
	<u>Deciduous Trees</u>						
170	October Glory' Red Maple 3 - 3.5" cal	56	ea	1,000.00	56,000		
171	Autumn Gold' Maidenhair Tree 2.5 - 3.0" cal	3	ea	937.50	2,813		
172	Shademaster' Thornless Honeylocust 3 - 3.5" cal	76	ea	1,000.00	76,000		
173							
174	<u>Ornamental Trees</u>						
175	Allegheny Serviceberry 7' - 8'	8	ea	1,000.00	8,000		
176	Japanese Maple - Upright Green 2 - 2.5" cal	2	ea	750.00	1,500		
177	Seven Son Flower 7' - 8'	1	ea	1,000.00	1,000		
178	Arnold Promise' Witch Hazel 25gal	1	ea	1,000.00	1,000		
179	Donald Wyman' Crabapple 1.5 - 2" cal	20	ea	625.00	12,500		
180	Sugar Tyme' Crabapple 1.5 - 2" cal	1	ea	625.00	625		
181							
182	<u>Deciduous Trees</u>						
183	Rose Creek' Compact Abelia 3gal	68	ea	187.50	12,750		
184	Arnold Dwarf' Forsythia 3gal	50	ea	187.50	9,375		
185	Berry Poppins' Dwarf Winterberry 3gal	6	ea	187.50	1,125		
186	Mr Poppins' Dwarf Male Winterberry 3gal	2	ea	187.50	375		
187	California Privet 7gal	78	ea	375.00	29,250		
188	Gro-low Fragrant Sumac 2gal	162	ea	125.00	20,250		
189	Miss-Kim' Compact Lilac 5gal	11	ea	300.00	3,300		
190	Bailey Compact' Cranberrybush Viburnum 5gal	22	ea	300.00	6,600		
191							
192	<u>Evergreen Shrubs</u>						
193	Shamrock' Compact Inkberry 5gal	178	ea	300.00	53,400		
194	Blue Pacific' Shore Juniper 3gal	402	ea	187.50	75,375		
195	Green Sargent' Shore Juniper 3gal	18	ea	187.50	3,375		
196							
197	<u>Perennials, Groundcover &amp; Vines</u>						
198	Blue Ice' Compact Bluestar 1gal	68	ea	15.00	1,020		
199	Hay-Scented Fern 1gal	18	ea	15.00	270		
200	Native Trumpet Honeysuckle 2gal	4	ea	30.00	120		
201	Total planting for bioretention #1 & #2	1	ls	19,306.00	19,306		
202	Irrigation				not required		
203	SUBTOTAL					5,096,943	
204							
205	<b>G30 CIVIL MECHANICAL UTILITIES</b>						
206	<u>Water supply</u>						
207	Sitework Water Supply Bid	1	ls	395,750.00	395,750		
208	Connect to existing water	2	ea	6,000.00	Early Bid		
209	Corporation stop	3	ea	800.00	Early Bid		
210	Gate valves	15	ea	1,200.00	Early Bid		
211	Hose bib	1	ea	600.00	Early Bid		
212	Hydrant	2	ea	5,000.00	Early Bid		
213	2" copper	870	lf	45.00	Early Bid		
214	Yard hydrant in 2 x 2 concrete box	4	ea	3,000.00	Early Bid		
215	DI Water line - 6"	230	lf	80.00	Early Bid		
216	DI Water line - 10"	2,630	lf	130.00	Early Bid		
217							
218	<u>Storm Sewer</u>						
219	Sitework Bid Storm Sewer	1	ls	2,576,394.00	2,576,394		
220	Bio retention basins	12,545	sf	10.00	Early Bid		
221	Drain Manholes 4' dia	51	ea	4,500.00	Early Bid		
222	Drain Manholes 5' dia	4	ea	5,000.00	Early Bid		
223	Drain Manholes 5' dia bypass	2	ea	5,500.00	Early Bid		
224	Drain Manholes 6' dia	2	ea	5,800.00	Early Bid		
225	Drain Manholes - 6' Doghouse	1	ea	6,000.00	Early Bid		
226	Drain Manholes 8' dia	1	ea	7,500.00	Early Bid		
227	Catch Basins	60	ea	4,200.00	Early Bid		
228	Double Catch Basins	1	sf	7,500.00	Early Bid		
229	DCO	10	sf	2,600.00	Early Bid		
230	Area Basin	3	ea	1,750.00	Early Bid		
231	Area Drains	42	ea	1,750.00	Early Bid		
232	Swale inlet	7	ea	1,600.00	Early Bid		
233	Roof Drain connections	8	ea	600.00	Early Bid		

60% Construction Documents Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>SITEWORK</b>							
230	Reducer	1	ea	600.00	Early Bid		
231	WYE	8	ea	600.00	Early Bid		
232	FES - Flared End Sections	4	ea	1,250.00	Early Bid		
233	WQI - Water Quality Inlet	2	ea	4,500.00	Early Bid		
234	WQS - Water Quality Structures	4	ea	15,000.00	Early Bid		
235	OCS - Outlet Control Structures	3	ea	10,000.00	Early Bid		
236	Connect to existing drain	1	ea	3,500.00	Early Bid		
237	Connect to existing headwall	1	ea	2,500.00	Early Bid		
238	UD	2,561	lf	50.00	Early Bid		
239	Perf CPP - 6"	2,975	lf	48.00	Early Bid		
240	CPP - 6"	72	lf	48.00	Early Bid		
241	CPP - 8"	185	lf	52.00	Early Bid		
242	CPP - 12"	4,300	lf	55.00	Early Bid		
243	CPP - 15"	70	lf	60.00	Early Bid		
244	CPP - 18"	1,775	lf	65.00	Early Bid		
245	CPP - 24"	535	lf	80.00	Early Bid		
246	CPP - 30"	240	lf	90.00	Early Bid		
247	CPP - 36"	740	lf	115.00	Early Bid		
248	DI - 36"	325	lf	160.00	Early Bid		
249	Trench drain	15	lf	120.00	Early Bid		
250	<u>Underground Detention #2</u>				Early Bid		
251	Excavate and dispose on site for detention systems	3,087	cy	12.00	Early Bid		
252	Back-fill infiltration bed with 3/4" crushed stone wrapped in filter fabric	1,852	cy	50.00	Early Bid		
253	SC - 740 chambers	374	ea	650.00	Early Bid		
254	<u>Underground Detention #3</u>				Early Bid		
255	Excavate and dispose on site for detention systems	1,025	cy	12.00	Early Bid		
256	Back-fill infiltration bed with 3/4" crushed stone wrapped in filter fabric	615	cy	50.00	Early Bid		
257	SC - 740 chambers	150	ea	650.00	Early Bid		
258	<u>Underground Detention #4</u>				Early Bid		
259	Excavate and dispose on site for detention systems	826	cy	12.00	Early Bid		
260	Back-fill infiltration bed with 3/4" crushed stone wrapped in filter fabric	496	cy	50.00	Early Bid		
261	SC - 740 chambers	96	ea	650.00	Early Bid		
262	<u>Underground Detention #5</u>				Early Bid		
263	Excavate and dispose on site for detention systems	251	cy	12.00	Early Bid		
264	Back-fill infiltration bed with 3/4" crushed stone wrapped in filter fabric	151	cy	40.00	Early Bid		
265	SC - 740 chambers	36	ea	650.00	Early Bid		
266	<u>Sanitary Sewer</u>						
267	Sitework Bid Sanitary Sewer	1	ls	216,305.00	216,305		
268	Connect to existing sewer	1	ea	7,500.00	Early Bid		
269	Sanitary Sewer Manholes	10	sf	3,800.00	Early Bid		
270	E&B Grease tank	1	ea	4,000.00	Early Bid		
271	Sanitary Sewer line - 4"	10	lf	40.00	Early Bid		
272	Sanitary Sewer line - 6"	130	lf	45.00	Early Bid		
273	Sanitary Sewer line - 8"	1,340	lf	60.00	Early Bid		
274	<u>Gas and Telecom service</u>						
275	E&B trench for new lines, pipe and install by utilities						
276	New gas service from Centre street	1,000	lf	22.00	22,000		
277	New telecom service from Centre Street	590	lf	22.00	12,980		
278	SUBTOTAL					3,223,429	
279							
280	<b>G40 ELECTRICAL UTILITIES</b>						
281	Power riser	1	ea	2,000.00	2,000		
282	Primary ductbank AA 2-5" empty conduit	920	lf	45.00	41,400		
283	Pad mount transformer	1	ea		Utility co		
284	Secondary ductbank BB 4-4" with 2500A feed	240	lf	410.00	98,400		
285	Generator ductbank EE with feeders	230	lf	320.00	73,600		
286	Communication riser	1	ea	2,500.00	2,500		
287	Communication ductbank CC 4-4" empty conduit	790	lf	80.00	63,200		

60% Construction Documents Estimate

<i>CSI CODE</i>	<i>DESCRIPTION</i>	<i>QTY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>EST'D COST</i>	<i>SUB TOTAL</i>	<i>TOTAL COST</i>
<b>SITEWORK</b>							
288	Communication handhole	<b>3</b>	ea	1,200.00	3,600		
289	Site lighting circuitry: 2#8 & #10 in 1" c	<b>6,000</b>	lf	9.00	54,000		
290	Fixture SL1/3	<b>20</b>	ea	2,800.00	56,000		
291	Fixture SL2/3	<b>14</b>	ea	3,800.00	53,200		
292	Fixture SL3/4	<b>15</b>	ea	2,500.00	37,500		
293	Pole base grounding and bonding	<b>47</b>	ea	150.00	7,050		
294	Pull box	<b>1</b>	ls	450.00	450		
295	1" conduit from PB	<b>500</b>	lf	9.00	4,500		

60% Construction Documents Estimate

<i>CSI CODE</i>	<i>DESCRIPTION</i>	<i>QTY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>EST'D COST</i>	<i>SUB TOTAL</i>	<i>TOTAL COST</i>	
<b>SITEWORK</b>								
296	Civil:							
297	Excavation, DB AA, BB, EE, CC	<b>2,180</b>	lf	20.00	43,600			
298	Concrete, DB AA, BB, EE, CC	<b>2,180</b>	lf	25.00	54,500			
299	Excavation, site lighting & PB circuitry	<b>6,500</b>	lf	5.00	32,500			
300	Pad mount transformer pad	<b>1</b>	ea	2,200.00	2,200			
301	Power manhole	<b>2</b>	ea	4,500.00	9,000			
302	Pole base	<b>47</b>	ea	700.00	32,900			
303	SUBTOTAL					672,100		
304	<b>TOTAL - SITE DEVELOPMENT</b>							<b>\$11,054,306</b>
305								



W. Edward Balmer Elementary School  
Whitinsville, MA

07-Jun-19

## 60% Construction Documents Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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## WOOD CANOPY ALTERNATE

**A10 FOUNDATIONS****A1010 STANDARD FOUNDATIONS**

## 033000 CONCRETE

Added spread footings due to increase in column locations

Formwork	920	sf	14.00	12,880			
Re-bar	2,781	lbs.	1.50	4,172			
Concrete material; 4,000 psi	47	cy	115.00	5,405			
Placing concrete	47	cy	70.00	3,290			
Set anchor bolts grout plates	29	ea	150.00	4,350			
<u>Piers/Pilasters</u>							
Formwork	322	sf	20.00	6,440			
Re-bar	975	lbs	1.15	1,121			
Concrete material; 4,000 psi	13	cy	115.00	1,495			
Placing concrete	13	cy	80.00	1,040			

## 312000 EARTHWORK

Spread footings

Excavation	141	cy	20.00	2,820		
Store on site	141	cy	15.00	2,115		
Backfill with onsite material	128	cy	18.00	2,304		
Gravel fill beneath footings, 12"	21	cy	40.00	840		

SUBTOTAL

48,272

**TOTAL - FOUNDATIONS****\$48,272****B10 SUPERSTRUCTURE****B1010 FLOOR CONSTRUCTION**

## 051000 STRUCTURAL STEEL FRAMING

Steel columns	(16)	tns	4,150.00	(66,400)		
Galv steel knife plate base pedestal connection into spread footing at wood column	33	loc	550.00	18,150		
Galv steel gusset plate connection each side of wood column to beam	66	loc	500.00	33,000		
Metal deck	(2,835)	sf	3.50	(9,923)		

SUBTOTAL

(25,173)

**TOTAL - SUPERSTRUCTURE****(\$25,173)****B20 EXTERIOR CLOSURE****B2010 EXTERIOR WALLS**

## 062000 FINISH CARPENTRY

2x Hardwood insert each side of web at canopy support columns; 9'-2" high detail A26/A6.51	(16)	loc	1,200.00	(19,200)		
Douglas Fir wood canopy decking and glu lam structure material, per Smartlam quote dated 6/3/19	1	ls	108,041.81	108,042		
Installation of CLT decking	2,509	sf	30.00	75,270		
Glulam columns; 9'-4" high	33	loc	900.00	29,700		
Glulam main and infill beams	753	lf	90.00	67,770		



W. Edward Balmer Elementary School  
Whitinsville, MA

07-Jun-19

## 60% Construction Documents Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>WOOD CANOPY ALTERNATE</b>							
070001	<i>WATERPROOFING, DAMPPROOFING AND CAULKING</i>						
	Air barrier; spray barrier at soffit	<b>(3,146)</b>	sf	6.50	(20,449)		
072100	<i>THERMAL INSULATION</i>						
	Insulation; 4" mineral wool at metal soffits	<b>(3,146)</b>	sf	4.15	(13,056)		
075200	<i>CLADDING</i>						
	Metal soffit panel at overhang and canopy soffits, including framing, sheathing, insulation (ATAS	<b>(3,146)</b>	sf	79.00	(248,534)		
090007	<i>PAINTING</i>						
	Paint exposed exterior canopy support columns 9'-2" high - A26/A6.51	<b>(16)</b>	loc	250.00	(4,000)		
092900	<i>GYP SUM BOARD ASSEMBLIES</i>						
	Framing system @ overhangs and canopies	<b>(3,146)</b>	sf	included w/ soffit			
	SUBTOTAL					(24,457)	
<b>TOTAL - EXTERIOR CLOSURE</b>							<b>(\$24,457)</b>
<b>TOTAL - ALTERNATE DEDUCT</b>							<b>(\$49,630)</b>





# Northbridge Elementary School 60 % Construction Development Estimate Post - Reconciliation

June 07, 2019

**UNI**



**Estimate Totals**

Description	Amount	Totals	Rate	Cost per Unit	
<b>Direct Cost</b>	<b>67,502,778</b>	<b>67,502,778</b>		<b>403.358 /sf</b>	<b>85.32%</b>
Design Contingency	1,856,326		2.750 %		
Escalation	1,582,352		2.000 %		
Construction Contingency	1,186,764		1.500 %		
<b>Subtotal</b>	<b>4,625,442</b>	<b>72,128,220</b>			
<b>General Conditions &amp; Requirements</b>					
Staff/ General Conditions	5,364,384				
<b>Subtotal</b>	<b>5,364,384</b>	<b>77,492,604</b>			
<b>Permits &amp; Insurance Requirements</b>					
General Liability Insurance					
Performance & Payment Bonds					
Builders Risk Insurance					
Permits - By Town					
<b>Subtotal</b>		<b>77,492,604</b>			
CM Fee (OH&P)	1,625,000				
<b>Subtotal</b>	<b>1,625,000</b>	<b>79,117,604</b>			
PROJECT GSF 167,352					
<b>Total</b>		<b>79,117,604</b>		<b>472.762 /sf</b>	

**ALTERNATES:**

**Timber Canopy Alternate - Deduct (\$47,673.00)**

**Sod At U6 Fields Alternate - Add \$10,650.00**

**Sod At U8 Fields Alternate - Add \$22,500.00**

Description	Quantity	Unit Cost	Total	
			Unit Cost	Amount
<b>SUBSTRUCTURE</b>				
<b>FOUNDATIONS</b>				
Standard Foundations	167,352.00 sf	8.695/sf		1,455,051
Slab on Grade	167,352.00 sf	11.328/sf		1,895,707
<b>A10 FOUNDATIONS</b>		<b>20.022/sf</b>		<b>3,350,758</b>
167,352.00 sf				
<b>A SUBSTRUCTURE</b>				
			<b>20.022/sf</b>	<b>3,350,758</b>
167,352.00 sf				
<b>SHELL</b>				
<b>SUPERSTRUCTURE</b>				
Floor Construction	167,352.00 sf	25.557/sf		4,277,072
Roof Construction	167,352.00 sf	15.081/sf		2,523,765
<b>B10 SUPERSTRUCTURE</b>		<b>40.638/sf</b>		<b>6,800,837</b>
167,352.00 sf				
<b>EXTERIOR VERTICAL ENCLOSURES</b>				
Exterior Walls	167,352.00 sf	46.112/sf		7,716,946
Exterior Windows	167,352.00 sf	12.725/sf		2,129,522
Exterior Doors	167,352.00 sf	1.016/sf		170,093
<b>B20 EXTERIOR VERTICAL ENCLOSURES</b>		<b>59.853/sf</b>		<b>10,016,561</b>
167,352.00 sf				
<b>EXTERIOR HORIZONTAL ENCLOSURES</b>				
Roof Coverings	167,352.00 sf	12.461/sf		2,085,338
Roof Openings	167,352.00 sf	0.774/sf		129,485
<b>B30 EXTERIOR HORIZONTAL ENCLOSURES</b>		<b>13.235/sf</b>		<b>2,214,823</b>
167,352.00 sf				
<b>B SHELL</b>				
			<b>113.726/sf</b>	<b>19,032,220</b>
167,352.00 sf				
<b>INTERIORS</b>				
<b>INTERIOR CONSTRUCTION</b>				
Interior Partitions	167,352.00 sf	23.161/sf		3,876,103
Interior Doors	167,352.00 sf	7.68 /sf		1,285,209
Fittings	167,352.00 sf	11.381/sf		1,904,599

Description	Quantity	Total	
		Unit Cost	Amount
<b>C10 INTERIOR CONSTRUCTION</b>		<b>42.222/sf</b>	<b>7,065,911</b>
167,352.00 sf			
<b>STAIRS</b>			
Stair Construction	167,352.00 sf	3.06 /sf	512,170
Stair Finishes	167,352.00 sf	0.66 /sf	110,506
<b>C20 STAIRS</b>		<b>3.721/sf</b>	<b>622,676</b>
167,352.00 sf			
<b>INTERIOR FINISHES</b>			
Wall Finishes	167,352.00 sf	5.734/sf	959,644
Floor Finishes	167,352.00 sf	8.941/sf	1,496,250
Ceiling Finishes	167,352.00 sf	8.019/sf	1,342,001
<b>C30 INTERIOR FINISHES</b>		<b>22.694/sf</b>	<b>3,797,895</b>
167,352.00 sf			
<b>C INTERIORS</b>		<b>68.637/sf</b>	<b>11,486,482</b>
167,352.00 sf			
<b>SERVICES</b>			
<b>CONVEYING</b>			
Vertical Conveying Systems	167,352.00 sf	0.951/sf	159,153
<b>D10 CONVEYING</b>		<b>0.951/sf</b>	<b>159,153</b>
167,352.00 sf			
<b>PLUMBING</b>			
Plumbing Fixtures	167,352.00 sf	3.936/sf	658,651
Domestic Water Distribution	167,352.00 sf	1.983/sf	331,918
Sanitary Waste	167,352.00 sf	1.572/sf	263,161
Rain Water Drainage	167,352.00 sf	2.803/sf	469,061
Other Plumbing Systems	167,352.00 sf	3.113/sf	520,897
<b>D20 PLUMBING</b>		<b>13.407/sf</b>	<b>2,243,688</b>
167,352.00 sf			
<b>HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)</b>			
Heat Generating Systems	167,352.00 sf	1.51 /sf	252,750
Cooling Generating Systems	167,352.00 sf	0.454/sf	76,000
Distribution Systems	167,352.00 sf	8.097/sf	1,355,110
Other HVAC Systems And Equipment	167,352.00 sf	32.857/sf	5,498,649
<b>D30 HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)</b>		<b>42.919/sf</b>	<b>7,182,509</b>
167,352.00 sf			

Description	Quantity	Total	
		Unit Cost	Amount
<b>FIRE PROTECTION</b>			
Sprinklers	167,352.00 sf	0.765/sf	127,991
Other Fire Protection Systems	167,352.00 sf	4.75 /sf	794,986
<b>D40 FIRE PROTECTION</b>		<b>5.515/sf</b>	<b>922,977</b>
<b>167,352.00 sf</b>			
<b>ELECTRICAL</b>			
Electrical Service And Distribution	167,352.00 sf	11.798/sf	1,974,470
Lighting & Branch Wiring	167,352.00 sf	7.393/sf	1,237,310
D5031	167,352.00 sf	1.05 /sf	175,720
Fire Alarm Systems	167,352.00 sf	1.75 /sf	292,866
D5038	167,352.00 sf	1.369/sf	229,088
D5039	167,352.00 sf	5.486/sf	918,150
Other Electrical System	167,352.00 sf	1.965/sf	328,853
<b>D50 ELECTRICAL</b>		<b>30.812/sf</b>	<b>5,156,457</b>
<b>167,352.00 sf</b>			
<b>D SERVICES</b>		<b>93.604/sf</b>	<b>15,664,784</b>
<b>167,352.00 sf</b>			
<b>EQUIPMENT AND FURNISHINGS</b>			
<b>EQUIPMENT</b>			
Commercial Equipment	167,352.00 sf	3.211/sf	537,435
Institutional Equipment	167,352.00 sf	1.291/sf	216,000
<b>E10 EQUIPMENT</b>		<b>4.502/sf</b>	<b>753,435</b>
<b>167,352.00 sf</b>			
<b>FURNISHINGS</b>			
Fixed Furnishings	167,352.00 sf	13.525/sf	2,263,471
<b>E20 FURNISHINGS</b>		<b>13.525/sf</b>	<b>2,263,471</b>
<b>167,352.00 sf</b>			
<b>E EQUIPMENT AND FURNISHINGS</b>		<b>18.027/sf</b>	<b>3,016,906</b>
<b>167,352.00 sf</b>			
<b>SPECIAL CONSTRUCTION AND DEMOLITION</b>			
<b>SELECTIVE BUILDING DEMOLITION</b>			
Building Elements Demolition	167,352.00 sf	3.221/sf	539,033
Hazardous Components Abatement	167,352.00 sf	6.507/sf	1,088,926
<b>F20 SELECTIVE BUILDING DEMOLITION</b>		<b>9.728/sf</b>	<b>1,627,959</b>
<b>167,352.00 sf</b>			

Description	Quantity	Total	
		Unit Cost	Amount
<b>F SPECIAL CONSTRUCTION AND DEMOLITION</b>		<b>9.728/sf</b>	<b>1,627,959</b>
167,352.00 sf			
<b>SITWORK</b>			
<b>SITE PREPARATION</b>			
Site Clearing	167,352.00 sf	7.34 /sf	1,228,394
Site Earthwork	167,352.00 sf	4.98 /sf	833,440
<b>G10 SITE PREPARATION</b>		<b>12.32 /sf</b>	<b>2,061,834</b>
167,352.00 sf			
<b>SITE IMPROVEMENTS</b>			
Pedestrian Paving	167,352.00 sf	3.269/sf	547,097
Site Development	167,352.00 sf	21.09 /sf	3,529,494
Landscaping	167,352.00 sf	5.87 /sf	982,430
Landscaping	141,600.00 sf	1.688/sf	239,015
<b>G20 SITE IMPROVEMENTS</b>		<b>31.658/sf</b>	<b>5,298,035</b>
167,352.00 sf			
<b>SITE MECHANICAL UTILITIES</b>			
Water Supply	167,352.00 sf	2.365/sf	395,750
Sanitary Sewer	167,352.00 sf	1.293/sf	216,305
Storm Sewer	167,352.00 sf	15.395/sf	2,576,394
<b>G30 SITE MECHANICAL UTILITIES</b>		<b>19.052/sf</b>	<b>3,188,449</b>
167,352.00 sf			
<b>SITE ELECTRICAL UTILITIES</b>			
Site Electrical Utilities	167,352.00 sf	4.24 /sf	709,616
<b>G40 SITE ELECTRICAL UTILITIES</b>		<b>4.24 /sf</b>	<b>709,616</b>
167,352.00 sf			
<b>G SITWORK</b>		<b>67.271/sf</b>	<b>11,257,934</b>
167,352.00 sf			
<b>GENERAL</b>			
<b>GENERAL REQUIREMENTS</b>			
Temporary Facilities and Controls	167,352.00 sf	12.344/sf	2,065,736
<b>Z10 GENERAL REQUIREMENTS</b>		<b>12.344/sf</b>	<b>2,065,736</b>
167,352.00 sf			

**60% Construction Development Budget Estimate Uniformat** 2019\_06\_07 Reconciled

Description	Quantity	Total	
		Unit Cost	Amount
Z10 GENERAL REQUIREMENTS		12.344/sf	2,065,736
167,352.00 sf			
Z GENERAL		12.344/sf	2,065,736
167,352.00 sf			

**60% Construction Development Budget Estimate Uniformat** 2019\_06\_07 Reconciled

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
<b>A</b>	<b>SUBSTRUCTURE</b>			
<b>A10</b>	<b>FOUNDATIONS</b>			
A1010	Standard Foundations			
03-0000.000	CONCRETE			
03-1113.102	Forms, Place Footings			
10	Form And Place Strip Footings	3,335.00 sf	17.75 /sf	59,196
10	Form And Place Strip Footings At Loading Dock	95.00 sf	17.75 /sf	1,686
20	Form And Place BF Grade Beams	1,888.00 sf	17.75 /sf	33,512
22	Form And Place Interior Spread - F FTG'S	9,148.00 sf	17.75 /sf	162,377
	Forms, Place Footings		1.534/sf	256,772
	167,352.00 sf			
03-1113.110	Forms, Place Columns/Piers			
2	Form And Place Concrete Piers Square	278.00 sf	17.75 /sf	4,935
2	Form And Place Concrete Piers Square - Pipe	1,680.00 sf	17.75 /sf	29,820
2	Form And Place Concrete Piers Round	428.00 sf	17.75 /sf	7,597
	Forms, Place Columns/Piers		0.253/sf	42,352
	167,352.00 sf			
03-1113.180	Forms, Place Walls			
a 4	Form And Place Foundation Frost Walls/Low Walls	14,147.00 sf	17.75 /sf	251,109
a 4	Form And Place Foundation At Loading Dock	741.00 sf	17.75 /sf	13,153
	Forms, Place Walls		1.579/sf	264,262
	167,352.00 sf			
03-1113.635	Rigid Insulation			
20	Rigid Foundation Insulation 2.0" At Frost Wall	8,623.00 sf	3.00 /sf	25,869
	Rigid Insulation		0.155/sf	25,869
	167,352.00 sf			
03-2100.110	Rebar			
202	Rebar At Building Wall Footings	12.79 ton	2,200.00 /ton	28,138
202	Rebar At Building F Grade Beams	6.00 ton	2,200.00 /ton	13,200
202	Rebar At Interior Spread - F FTG'S	55.00 ton	2,200.00 /ton	121,000
202	Rebar At Concrete Piers Square	0.45 ton	2,200.00 /ton	990
210	Rebar At Concrete Piers Square - Pipe	3.60 ton	2,200.00 /ton	7,920
210	Rebar At Concrete Piers Round	0.90 ton	2,200.00 /ton	1,980
210	Rebar At Foundation Frost Walls/Low Walls	41.00 ton	2,200.00 /ton	90,200
210	Rebar At Loading Dock Foundation	1.75 ton	2,200.00 /ton	3,850
	Rebar		1.597/sf	267,278
	167,352.00 sf			
03-3000.100	Concrete			
40	4500 PSI Concrete At Building Wall Footings	173.25 cy	120.00 /cy	20,790
40	4500 PSI Concrete At Building F Grade Beams	78.75 cy	120.00 /cy	9,450
40	4500 PSI Concrete At Interior Spread - F FTG'S	638.00 cy	120.00 /cy	76,560
40	4500 PSI Concrete At Concrete Piers Square	7.00 cy	120.00 /cy	840

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
03-3000.100	Concrete			
40	4500 PSI Concrete At Concrete Piers Square Pipe	41.00 cy	120.00 /cy	4,920
40	4500 PSI Concrete At Concrete Piers Round	11.00 cy	120.00 /cy	1,320
40	4500 PSI Concrete At Foundation Frost Walls/Low Walls	470.00 cy	120.00 /cy	56,400
40	4500 PSI Concrete At Loading Dock Foundation	20.00 cy	120.00 /cy	2,400
40	Miscellaneous Shelves And Box Outs	16,178.00 sf	0.70 /sf	11,325
40	Engineering and layout	10.00 cd	2,250.00 /cd	22,500
40	Footing Pier Adjust New Draw	15.00 cy	980.00 /cy	14,700
40	Logistics, safety, cleanup and protection	167,352.00 sf	0.75 /sf	125,514
	Concrete		2.072/sf	346,719
	167,352.00 sf			
	CONCRETE		7.19 /sf	1,203,251
	167,352.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-1100.100	Damproofing			
2	Damproofing At Frost Walls - Top of Walls Only	1,200.00 sf	3.00 /sf	3,600
	Damproofing		0.022/sf	3,600
	167,352.00 sf			
	THERMAL & MOIST PROTECT		0.022/sf	3,600
	167,352.00 sf			
31-0000.000	EARTHWORK			
31-2316.215	Footing Excavation			
105	Earthwork Foundations - Bid	1.00 Bid	209,200.00 /Bid	209,200
105	Earthwork Foundations - Bid S Drawing Footing Elevations	1.00 Bid	39,000.00 /Bid	39,000
	Footing Excavation		1.483/sf	248,200
	167,352.00 sf			
	EARTHWORK		1.483/sf	248,200
	167,352.00 sf			
	A1010 Standard Foundations		8.695/sf	1,455,051
	167,352.00 sf			
A1030	Slab on Grade			
03-0000.000	CONCRETE			
03-0010.165	Concrete - Equipment Pads			
125	Interior Equipment Pads by Area SF - Allowance	400.00 sf	28.00 /sf	11,200



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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	Concrete - Equipment Pads		0.067/sf	11,200
	167,352.00 sf			
03-1113.102	Forms, Place Footings			
20	Form And Place Elevator Spread Footing/Slab	60.00 sf	22.00 /sf	1,320
	Forms, Place Footings		0.008/sf	1,320
	167,352.00 sf			
03-1113.180	Forms, Place Walls			
a 4	Form And Place Elevator Walls	280.00 sf	25.00 /sf	7,000
a 4	Form And Place Platform Stairs	50.00 lf	175.00 /lf	8,750
a 4	Form And Place Loading Dock Stairs	35.00 lf	175.00 /lf	6,125
	Forms, Place Walls		0.131/sf	21,875
	167,352.00 sf			
03-1113.630	Vapor Barrier			
12	Vapor Barrier Wlth Lap	83,677.23 sf	1.00 /sf	83,677
	Vapor Barrier		0.50 /sf	83,677
	167,352.00 sf			
03-1113.635	Rigid Insulation			
120	Rigid Insulation under Slab 2.0"	71,519.00 sf	2.50 /sf	178,798
	Rigid Insulation		1.068/sf	178,798
	167,352.00 sf			
03-1513.110	Waterstop			
6	Waterstop At Elevator	40.00 lf	12.00 /lf	480
	Waterstop		0.003/sf	480
	167,352.00 sf			
03-2100.110	Rebar			
208	SOG Rebar	71,519.00 sf	0.30 /sf	21,456
210	Rebar Elevator Spread Footing	0.64 ton	2,200.00 /ton	1,408
210	Rebar Elevator Walls	0.40 ton	2,200.00 /ton	880
210	Rebar Loading Dock	1.13 ton	2,200.00 /ton	2,486
	Rebar		0.157/sf	26,230
	167,352.00 sf			
03-2200.110	Wire Mesh			
110	WWF Reinforcement with Lap SOG	83,677.23 sf	0.90 /sf	75,310
110	WWF Reinforcement with Lap SOG Platform	982.00 sf	0.90 /sf	884
110	WWF Reinforcement with Lap SOG Loading Dock	182.00 sf	0.90 /sf	164
	Wire Mesh		0.456/sf	76,357
	167,352.00 sf			
03-3000.100	Concrete			
40	4000 PSI Concrete SOG And Haunch/Columns Infill	1,390.20 cy	115.00 /cy	159,873

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
03-3000.100	Concrete			
40	4000 PSI Concrete Platform SOG And Stairs/Ramp	22.00 cy	115.00 /cy	2,530
40	4000 PSI Concrete Elevator	16.00 cy	115.00 /cy	1,840
40	Barrier One Moisture Additive SOG	1,670.55 cy	52.00 /cy	86,869
45	4500 PSI Concrete Loading Dock Foundation SOG And Stairs	22.00 cy	125.00 /cy	2,750
	Concrete		<u>1.517/sf</u>	<u>253,862</u>
	167,352.00 sf			
03-3500.110	Finish Flatwork			
10	Place And Finish SOG	71,519.00 sf	3.00 /sf	214,557
10	Place And Finish SOG At Platform	840.00 sf	9.00 /sf	7,560
10	Place And Finish SOG At Loading Dock	346.00 sf	9.50 /sf	3,287
	Finish Flatwork		<u>1.347/sf</u>	<u>225,404</u>
	167,352.00 sf			
	CONCRETE		5.254/sf	879,202
	167,352.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-1200.100	Waterproofing			
2	Cementitious Waterproofing At Elevator Pit	1.00 ls	5,500.00 /ls	5,500
	Waterproofing		<u>0.033/sf</u>	<u>5,500</u>
	167,352.00 sf			
	THERMAL & MOIST PROTECT		0.033/sf	5,500
	167,352.00 sf			
31-0000.000	EARTHWORK			
31-2213.110	Site Grading			
120	Earthwork Slab On Grade - Bid	1.00 Bid	709,505.00 /Bid	709,505
	Site Grading		<u>4.24 /sf</u>	<u>709,505</u>
	167,352.00 sf			
	EARTHWORK		4.24 /sf	709,505
	167,352.00 sf			
33-0000.000	UTILITIES			
33-0550.010	Pipe Trenching			
2	Sitework Underslab Utilities UD - Bid	1.00 Bid	226,500.00 /Bid	226,500
2	Sitework Underslab Utilities - Bid	1.00 Bid	75,000.00 /Bid	75,000
	Pipe Trenching		<u>1.802/sf</u>	<u>301,500</u>
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>UTILITIES</i>		<i>1.802/sf</i>	<i>301,500</i>
	<i>167,352.00 sf</i>			
	<i>A1030 Slab on Grade</i>		<i>11.328/sf</i>	<i>1,895,707</i>
	<i>167,352.00 sf</i>			
	<b>A10 FOUNDATIONS</b>		<b>20.022/sf</b>	<b>3,350,758</b>
	<i>167,352.00 sf</i>			
	<b>A SUBSTRUCTURE</b>		<b>20.022/sf</b>	<b>3,350,758</b>
	<i>167,352.00 sf</i>			
<b>B</b>	<b>SHELL</b>			
<b>B10</b>	<b>SUPERSTRUCTURE</b>			
<i>B1010</i>	<i>Floor Construction</i>			
<i>03-0000.000</i>	<i>CONCRETE</i>			
<i>03-0010.165</i>	<i>Concrete - Equipment Pads</i>			
<i>125</i>	<i>Concrete - Equipment Pads</i>	<i>400.00 sf</i>	<i>28.00 /sf</i>	<i>11,200</i>
	<i>Concrete - Equipment Pads</i>		<i>0.067/sf</i>	<i>11,200</i>
	<i>167,352.00 sf</i>			
<i>03-0022.140</i>	<i>Concrete - Place &amp; Finish SOD</i>			
<i>100</i>	<i>Place &amp; Finish - SOMD 4.5" NW 2" 20 Ga W/6X6</i>	<i>90,671.00 sf</i>	<i>2.50 /sf</i>	<i>226,678</i>
	<i>- W2.1 W 2.1 WWF</i>			
	<i>Concrete - Place &amp; Finish SOD</i>		<i>1.354/sf</i>	<i>226,678</i>
	<i>167,352.00 sf</i>			
<i>03-2100.110</i>	<i>Rebar</i>			
<i>210</i>	<i>Rebar At SOD</i>	<i>90,671.00 sf</i>	<i>0.60 /sf</i>	<i>54,403</i>
	<i>Rebar</i>		<i>0.325/sf</i>	<i>54,403</i>
	<i>167,352.00 sf</i>			
<i>03-2200.110</i>	<i>Wire Mesh</i>			
<i>110</i>	<i>WWF Reinforcement with Lap W/6X6 - W2.1 W</i>	<i>106,085.07 sf</i>	<i>1.00 /sf</i>	<i>106,085</i>
	<i>2.1</i>			
	<i>Wire Mesh</i>		<i>0.634/sf</i>	<i>106,085</i>
	<i>167,352.00 sf</i>			
<i>03-3000.100</i>	<i>Concrete</i>			
<i>40</i>	<i>4000 PSI Concrete SOMD NW</i>	<i>1,399.00 cy</i>	<i>115.00 /cy</i>	<i>160,885</i>

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
03-3000.100	Concrete			
40	Barrier 1	1,399.00 cy	45.00 /cy	62,955
	Concrete		1.338/sf	223,840
	167,352.00 sf			
	CONCRETE		3.718/sf	622,205
	167,352.00 sf			
05-0000.000	METALS			
05-1200.110	Structural Steel			
a 01	Structural Steel, Bracing, Angles, Studs, Connections And Joist	829.00 ton	3,900.00 /ton	3,233,100
a 01	Fero Clips	76.00 ea	550.00 /ea	41,800
	Structural Steel		19.569/sf	3,274,900
	167,352.00 sf			
05-3100.114	Steel Floor Decking			
618	Metal Floor Deck - 2" 20 Ga	90,671.00 sf	3.00 /sf	272,013
	Steel Floor Decking		1.625/sf	272,013
	167,352.00 sf			
	METALS		21.194/sf	3,546,913
	167,352.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-8100.100	Fireproofing			
2	Fireproofing GC1.1B,G1,2B	32,225.00 sf	3.35 /sf	107,954
	Fireproofing		0.645/sf	107,954
	167,352.00 sf			
	THERMAL & MOIST PROTECT		0.645/sf	107,954
	167,352.00 sf			
	B1010 Floor Construction		25.557/sf	4,277,072
	167,352.00 sf			
B1020	Roof Construction			
03-0000.000	CONCRETE			
03-0022.140	Concrete - Place & Finish SOD			
100	Place & Finish - SOMD 7" LW W/6X6 - W2.1 W	5,520.00 sf	4.75 /sf	26,220
	2.1 WWF			
	Concrete - Place & Finish SOD		0.157/sf	26,220
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	Concrete - Place & Finish SOD		0.157/sf	26,220
	167,352.00 sf			
03-2100.110	Rebar			
212	Rebar At SOMD - Roof	5,520.00 sf	0.70 /sf	3,864
	Rebar		0.023/sf	3,864
	167,352.00 sf			
03-2200.110	Wire Mesh			
110	WWF Reinforcement with Lap Roof W/6X6 - W2.1 W 2.1	6,458.40 sf	1.00 /sf	6,458
	Wire Mesh		0.039/sf	6,458
	167,352.00 sf			
03-3000.100	Concrete			
I 40	4000 PSI LW Concrete SOMD Sound Atten	136.00 cy	148.00 /cy	20,128
	Concrete		0.12 /sf	20,128
	167,352.00 sf			
	CONCRETE		0.339/sf	56,670
	167,352.00 sf			
05-0000.000	METALS			
05-1200.110	Structural Steel			
a 01	Structural Steel, Bracing, Angles, Studs, Connections And Joist	437.00 ton	3,900.00 /ton	1,704,300
a 01	Structural Steel Canopy/Screen/MEP Framing - Support	79.00 ton	4,800.00 /ton	379,200
a 01	Fero Clips	38.00 ea	550.00 /ea	20,900
	Structural Steel		12.575/sf	2,104,400
	167,352.00 sf			
05-3100.110	Steel Roof Decking			
120	Metal Roof Deck 3" 20 ga.	73,529.00 sf	3.25 /sf	238,969
320	Metal Deck 3" 20 ga. - Cellular Acoustical	6,776.00 sf	11.50 /sf	77,924
	Steel Roof Decking		1.894/sf	316,893
	167,352.00 sf			
	METALS		14.468/sf	2,421,293
	167,352.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-8100.100	Fireproofing			
2	Fireproofing - Cementitious	13,672.00 sf	3.35 /sf	45,801

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Fireproofing</i>		0.274/sf	45,801
	167,352.00 sf			
	<i>THERMAL &amp; MOIST PROTECT</i>		0.274/sf	45,801
	167,352.00 sf			
	<i>B1020 Roof Construction</i>		15.081/sf	2,523,765
	167,352.00 sf			
	<b>B10 SUPERSTRUCTURE</b>		<b>40.638/sf</b>	<b>6,800,837</b>
	<b>167,352.00 sf</b>			
<b>B20</b>	<b>EXTERIOR VERTICAL ENCLOSURES</b>			
B2010	<i>Exterior Walls</i>			
04-0000.000	<i>MASONRY</i>			
04-0000.110	<i>Block 12" CMU Back - Up</i>			
212	Backup Wall 12" At 26' Type X4 / 9 And L.4 Lines	3,711.00 sf	34.00 /sf	126,174
212	Backup Wall 12" At 12' Type X4 Roof Level / 12, J.5 And L.4 Lines	1,579.00 sf	34.00 /sf	53,686
212	Backup Wall 12" At 6' Type X4 Roof Level / J.5 Between 9.6 And 11.2 Lines	312.00 sf	34.00 /sf	10,608
212	Build-up 4" CMU At Roof To Support Brick A3.50 Block 12" CMU Back - Up	1,474.00 sf	24.00 /sf	35,376
			1.35 /sf	225,844
	167,352.00 sf			
04-2113.140	<i>Brick</i>			
10	Brick Veneer - Wall Type X1.11,1.11a And X4.11	37,784.00 sf	34.50 /sf	1,303,548
	<i>Brick</i>		7.789/sf	1,303,548
	167,352.00 sf			
04-7200.120	<i>Architectural Cast Stone</i>			
020	Cast Unit Veneer Masonry	4,544.00 sf	60.00 /sf	272,640
020	Ground Face Veneer Masonry AT East Wall Gymnasium	420.00 sf	42.00 /sf	17,640
050	Stone Cap 5" w +- x 4" h +- At Brick Veneer A6.60	1,075.00 lf	70.00 /lf	75,250
050	Stone Cap 10" w +- x 4" h +- At Brick Veneer A6.60	2,081.00 lf	74.00 /lf	153,994
	<i>Architectural Cast Stone</i>		3.104/sf	519,524
	167,352.00 sf			
04-9590.110	<i>Staging</i>			
5	Masonry Staging	46,873.00 sf	3.50 /sf	164,056

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Staging</i>		0.98 /sf	164,056
	167,352.00 sf			
	<i>MASONRY</i>		13.223/sf	2,212,972
	167,352.00 sf			
05-0000.000	<i>METALS</i>			
05-4100.010	<i>LGMF Framing</i>			
080	LGMF At Masonry And Precast (43,748 - 5,602 Minus CMU Back - Up -Brick shelf 1200)	36,946.00 sf	11.00 /sf	406,406
080	LGMF At Metal Wall Panel	12,800.00 sf	11.00 /sf	140,800
080	LGMF At Prefinished Phenolic Panels	10,850.00 sf	11.00 /sf	119,350
080	LGMF At A6.70 Roof Edge Metal Soffit 1'-11-5/8"	3,870.00 sf	14.00 /sf	54,180
080	LGMF At A6.70 Prefinished Fascia At Overhang 3'-5" +-	6,490.00 sf	14.00 /sf	90,860
080	LGMF At Exterior Linear Metal Ceiling Southwest Canopy/Cafe Entry 1100	3,146.00 sf	14.00 /sf	44,044
080	LGMF At Exterior Metal Panel Ceilings Corridor 1136 /Gym Entry	316.00 sf	14.00 /sf	4,424
080	LGMF At Exterior Linear Metal Ceiling Lobby 1101 / Cafe Entry	1,892.00 sf	14.00 /sf	26,488
080	LGMF At Exterior Linear Metal Panel Ceiling Receiving 1158	36.00 sf	14.00 /sf	504
080	LGMF At Exterior Exterior Metal Panel Ceilings Entries/Stairs	200.00 sf	14.00 /sf	2,800
	<i>LGMF Framing</i>		5.317/sf	889,856
	167,352.00 sf			
05-5820.120	<i>Misc Steel</i>			
40	Column Covers At 8' +- Under Soffit 8" Exposed Con Col.	2.00 ea	5,800.00 /ea	11,600
140	Seismic Clips L5x5x5/16 x 1'6" Long At 4" OC Staggered / Expan Bolts	162.00 Ea	225.00 /Ea	36,450
140	Exterior Lintels	1,270.00 lf	28.00 /lf	35,560
	<i>Misc Steel</i>		0.50 /sf	83,610
	167,352.00 sf			
	<i>METALS</i>		5.817/sf	973,466
	167,352.00 sf			
06-0000.000	<i>ROUGH CARPENTRY</i>			
06-1610.110	<i>Sheathing At Walls</i>			
62	Sheathing At Masonry And Precast 41,886 - 5,602 Minus CMU Back - Up)	36,946.00 sf	3.00 /sf	110,838
62	Sheathing At Metal Wall Panel	12,800.00 sf	3.00 /sf	38,400
62	Sheathing At Prefinished Phenolic Panels	10,850.00 sf	3.00 /sf	32,550
62	Sheathing At At A6.70 Roof Edge Metal Soffit 1'-11-5/8"	3,870.00 sf	2.995 /sf	11,591
62	Sheathing At A6.70 Prefinished Fascia At Overhang 3'-5" +-	6,490.00 sf	2.995 /sf	19,438
62	Sheathing At Exterior Linear Metal Ceiling Southwest Canopy/Cafe Entry 1100	3,146.00 sf	2.995 /sf	9,422

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
06-1610.110	<i>Sheathing At Walls</i>			
62	Sheathing At Exterior Metal Panel Ceilings Corridor 1136 /Gym Entry	316.00 sf	2.995 /sf	946
62	Sheathing At Exterior Linear Metal Ceiling Entry Vestibule 1214 A2.11,A6.10	1,892.00 sf	2.995 /sf	5,667
62	Sheathing At Exterior Metal Panel Ceiling Receiving 1158	36.00 sf	2.995 /sf	108
62	Sheathing At Exterior Metal Panel Ceilings Entries/Stairs	200.00 sf	2.995 /sf	599
	<i>Sheathing At Walls</i>		<u>1.372/sf</u>	<u>229,558</u>
	167,352.00 sf			
	<b>ROUGH CARPENTRY</b>		1.372/sf	229,558
	167,352.00 sf			
06-2000.000	<b>FINISH CARPENTRY</b>			
06-2000.010	<i>Finish Carpentry</i>			
2	2" x 10" x 9'+-h Stained HDWD Incert ES Web SS Through Bolts A26/A6.51	342.00 lf	55.00 /lf	18,810
	<i>Finish Carpentry</i>			<u>18,810</u>
	<b>FINISH CARPENTRY</b>			18,810
07-0000.000	<b>THERMAL &amp; MOIST PROTECT</b>			
07-2113.230	<i>Insulation Board</i>			
2	3" Rigid Insulation At Masonry And Precast - Brick Shelf	38,146.00 sf	3.00 /sf	114,438
2	4" Mineral Wool Insulation At Metal Wall Panel	12,800.00 sf	4.00 /sf	51,200
2	4" Mineral Wool Insulation At Prefinished Phenolic Panels	10,850.00 sf	4.00 /sf	43,400
2	4" Mineral Wool Insulation At A6.70 Roof Edge Metal Soffit 1'-11-5/8"	3,870.00 sf	4.00 /sf	15,480
2	4" Mineral Wool Insulation At A6.70 Prefinished Fascia At Overhang 3'-5" +-	6,490.00 sf	4.00 /sf	25,960
2	4" Mineral Wool Insulation At Exterior Linear Metal Ceiling Southwest Canopy/Cafe Entry 1100	3,146.00 sf	4.00 /sf	12,584
2	4" Mineral Wool Insulation At Exterior Metal Panel Ceilings Corridor 1136 /Gym Entry	316.00 sf	4.00 /sf	1,264
2	4" Mineral Wool Insulation At Exterior Linear Metal Ceiling Entry Vestibule 1214 A2.11,A6.10	1,892.00 sf	4.00 /sf	7,568
2	4" Mineral Wool Insulation At Exterior Metal Panel Ceiling Receiving 1158	36.00 sf	4.00 /sf	144
2	4" Mineral Wool Insulation At Exterior Metal Panel Ceilings Entries/Stairs	200.00 sf	4.00 /sf	800
	<i>Insulation Board</i>		<u>1.63 /sf</u>	<u>272,838</u>
	167,352.00 sf			
07-2129.265	<i>Sprayed Insulation</i>			
201	3" Sprayed Foam Insulation (SF Inc Vert ) A6.10 Linear Metal Ceiling Entry Vestibule 1214	2,270.40 sf	4.00 /sf	9,082
201	3" Sprayed Foam Insulation (SF Inc Vert ) @ Cond Space Linear Metal Southwest Canopy	969.60 sf	4.00 /sf	3,878



Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Sprayed Insulation</i>		0.077/sf	12,960
	167,352.00 sf			
07-2700.100	<i>Air Barriers</i>			
10	Air Vapor Barrier At Masonry And Precast - Brick Shelf	38,146.00 sf	6.75 /sf	257,486
10	Air Vapor Barrier At Metal Wall Panel Basis - Basis ATAS International, Inc; Design Wall DWF	12,800.00 sf	6.75 /sf	86,400
10	Air Vapor Barrier At Prefinished Phenolic Panels	10,850.00 sf	6.75 /sf	73,238
10	Air Vapor Barrier At A6.70 Roof Edge Metal Soffit 1'-11-5/8" - Basis ATAS International, Inc; Design Wall DW	3,870.00 sf	6.75 /sf	26,123
10	Air Vapor Barrier At A6.70 Prefinished Fascia At Overhang 3'-5" +- Basis ATAS International, Inc; Design Wall DW	6,490.00 sf	6.75 /sf	43,808
10	Air Vapor Barrier At Exterior Linear Metal Ceiling Southwest Canopy/Cafe Entry 1100	3,146.00 sf	6.75 /sf	21,236
10	Air Vapor Barrier At Exterior Metal Panel Ceilings Corridor 1136 /Gym Entry	316.00 sf	6.75 /sf	2,133
10	Air Vapor Barrier At Exterior Linear Metal Ceiling Entry Vestibule 1214 A2.11,A6.10	1,892.00 sf	6.75 /sf	12,771
10	Air Vapor Barrier At Exterior Metal Panel Ceiling Receiving 1158	36.00 sf	6.75 /sf	243
10	Air Vapor Barrier At Exterior Metal Panel Ceilings Entries/Stairs	200.00 sf	6.75 /sf	1,350
10	Strip in AVB At Windows	9,304.00 sf	6.75 /sf	62,802
10	Strip in AVB At Doors	114.00 sf	6.75 /sf	770
	<i>Air Barriers</i>		3.516/sf	588,357
	167,352.00 sf			
07-4616.100	<i>Composite Wall Panel</i>			
2	Metal Wall Panel	12,800.00 sf	67.00 /sf	857,600
2	Metal Panel A6.70 Roof Edge Metal Soffit 1'-11-5/8"	3,870.00 sf	67.00 /sf	259,290
2	Metal Panel A6.70 Prefinished Fascia At Overhang 3'-5"	6,490.00 sf	67.00 /sf	434,830
2	Linear Metal Ceilings Southwest Canopy/Cafe Entry 1100	3,146.00 sf	70.00 /sf	220,220
2	Metal Panel Ceilings Corridor 1136 /Gym Entry	316.00 sf	67.00 /sf	21,172
2	Linear Metal Ceiling Entry Vestibule 1214 A2.11,A6.10	1,892.00 sf	70.00 /sf	132,440
2	Metal Panel Ceilings Receiving 1158	36.00 sf	67.00 /sf	2,412
2	Metal Panel Ceilings Building Entry / Stairs A3.10	200.00 sf	67.00 /sf	13,400
2	Prefinished Phenolic Panels	10,850.00 sf	68.00 /sf	737,800
	<i>Composite Wall Panel</i>		16.009/sf	2,679,164
	167,352.00 sf			
07-9200.200	<i>Exterior Caulking</i>			
2	Exterior Joint/Control Joint sealants - Ext Wall & MP/Linear Ceilings	77,746.00 Allo	1.00 /Allo	77,746
	<i>Exterior Caulking</i>		0.465/sf	77,746
	167,352.00 sf			
07-9513.100	<i>Expansion Covers</i>			
12	Exterior Expansion Joint Cover Assemblies	104.00 lf	225.00 /lf	23,400

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	Expansion Covers		0.14 /sf	23,400
	167,352.00 sf			
	THERMAL & MOIST PROTECT		21.837/sf	3,654,465
	167,352.00 sf			
08-0000.000	OPENINGS			
08-9200.100	Louvered Equipment Enclosures			
100	Roof Top Equipment Screen - Verta-A-Cade 301 (Basis of Design)	7,258.00 sf	55.00 /sf	399,190
	Louvered Equipment Enclosures		2.385/sf	399,190
	167,352.00 sf			
	OPENINGS		2.385/sf	399,190
	167,352.00 sf			
09-0000.000	FINISHES			
09-2000.010	Drywall Partitions			
100	Drywall At Interior LGMF	59,886.00 sf	3.50 /sf	209,601
	Drywall Partitions		1.252/sf	209,601
	167,352.00 sf			
09-9113.100	Painting- Exterior			
30	Paint Exterior Structural Steel	342.00 sf	12.00 /sf	4,104
30	Stained HDWD Incert 2" x 10" x 9'+-h ES Web	285.00 sf	8.00 /sf	2,280
	SS Through Bolts A26/A6.51			
	Painting- Exterior			6,384
	FINISHES		1.291/sf	215,985
	167,352.00 sf			
10-0000.000	SPECIALTIES			
10-1400.110	Signs - Exterior			
100	Signs - Building ID Allowance	1.00 ALLO W	12,500.00 /ALLO W	12,500
	Signs - Exterior		0.075/sf	12,500
	167,352.00 sf			
	SPECIALTIES		0.075/sf	12,500
	167,352.00 sf			
	B2010 Exterior Walls		46.112/sf	7,716,946
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>B2010 Exterior Walls</i>		46.112/sf	7,716,946
	167,352.00 sf			
<i>B2020</i>	<i>Exterior Windows</i>			
06-0000.000	ROUGH CARPENTRY			
06-0000.010	Carpentry			
2	Exterior Blocking At Storefront, Curtainwall and Windows	9,304.00 lf	15.00 /lf	139,560
2	Exterior Blocking At Prefinished Aluminum Sun Shades	134.00 loc	125.00 /loc	16,750
	Carpentry		0.934/sf	156,310
	167,352.00 sf			
	ROUGH CARPENTRY		0.934/sf	156,310
	167,352.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-9200.200	Exterior Caulking			
20	Exterior Caulking At Storefront, Curtainwall and Windows	9,304.00 lf	6.50 /lf	60,476
	Exterior Caulking		0.361/sf	60,476
	167,352.00 sf			
	THERMAL & MOIST PROTECT		0.361/sf	60,476
	167,352.00 sf			
08-0000.000	OPENINGS			
08-4100.100	Storefronts - Aluminum			
10	SF-1 Alum. Storefront 5-4w x 9-4h -- 69	3,435.00 sf	95.00 /sf	326,325
10	SF-2 Alum. Storefront 5-4w x 6-8h -- 64	2,276.00 sf	95.00 /sf	216,220
10	SF-3 Alum. Storefront 5-4w x 6-8h -- 31	2,170.00 sf	95.00 /sf	206,150
10	SF-4 Alum. Storefront 5-4w x 6-8h -- 30	2,100.00 sf	95.00 /sf	199,500
10	SF-5 Alum. Storefront 8-4w x 6-8h -- 4	222.00 sf	95.00 /sf	21,090
10	SF-7 (2)Pr. Drs. Alum Storefront 20 w x 10h -- 1	200.00 sf	95.00 /sf	19,000
10	SF-8 (1)Pr. Drs. Alum Storefront 12-2 w x 10h -- 1	120.00 sf	95.00 /sf	11,400
10	SF-10 Alum Storefront 20-6 w x 6-4h -- 1	130.00 sf	95.00 /sf	12,350
10	SF-11 Alum Storefront 17-4 w x 6-4h -- 1	110.00 sf	95.00 /sf	10,450
10	SF-12 Alum Storefront 23-4 w x 6-4h -- 1	148.00 sf	95.00 /sf	14,060
10	SF-13 Alum Storefront 23-4 w x 6-4h -- 2	296.00 sf	95.00 /sf	28,120
10	SF-14 Alum Storefront 23-4 w x 6-4h -- 1	148.00 sf	95.00 /sf	14,060
10	SF-15 Alum Storefront 23-4 w x 6-4h -- 1	148.00 sf	95.00 /sf	14,060
10	SF-16 Alum Storefront 36-6 w x 6-8h -- 1	243.00 sf	95.00 /sf	23,085
10	SF-17* Radius Alum Storefront 40 w x 7-4h -- 1	293.00 sf	95.00 /sf	27,835
10	SF-18* (1)Pr Drs Radius Alum Storefront 20 w x 7-2h -- 1	143.00 sf	95.00 /sf	13,585
10	SF-21 Alum Storefront Sng Dr 11-9 w x 10 -- 1	118.00 sf	95.00 /sf	11,210
10	SF-27 Alum Storefront 12-0 w x 7-4h -- 1	88.00 sf	95.00 /sf	8,360
10	SF-28 Alum Storefront 14-10 w x 4 h -- 1	59.00 sf	95.00 /sf	5,605
10	SF-29 Alum Storefront 27 w x 4 h -- 6	648.00 sf	95.00 /sf	61,560

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
<i>08-4100.100 Storefronts - Aluminum</i>				
10	SF-30 Alum Storefront 27 w x 4 h --3	324.00 sf	95.00 /sf	30,780
10	SF-31 Alum Storefront 13 w x 7-2 --1	93.00 sf	95.00 /sf	8,835
10	SF-32 (2) Pr Drs Alum Storefront 14-6 w x 9-4 h --1	135.00 sf	95.00 /sf	12,825
10	SF-33 (1)/(1)Sgl Pr Drs Alum Storefront 25-8 w x 9-4 h --1	240.00 sf	95.00 /sf	22,800
10	SF-34 (1)Sgl Dr Alum Storefront 10-11 w x 7-2 h	78.00 sf	95.00 /sf	7,410
10	SF-35 (1)Sgl Dr Alum Storefront 10-11 w x 7-2 h	78.00 sf	95.00 /sf	7,410
10	SF-36 Alum Storefront 10-10 w x 8 h -- 2	173.00 sf	95.00 /sf	16,435
10	SF-37 Alum Storefront 10-10 w x 8 h --2	173.00 sf	95.00 /sf	16,435
10	SF-38 (1)Pr Drs Alum Storefront 6-4 w x 9-4 h -- 5	296.00 sf	95.00 /sf	28,120
	<i>Storefronts - Aluminum</i>		<u>8.336/sf</u>	<u>1,395,075</u>
	167,352.00 sf			
<i>08-4400.110 Curtain Wall</i>				
1000	CW 1 10w x 42-8h [1ea]	427.00 sf	115.00 /sf	49,105
1000	CW 2 (1) Pr Drs 12hw x 42-8h [1ea]	512.00 sf	115.00 /sf	58,880
1000	CW 3 5w x 39-8h [2ea]	397.00 sf	115.00 /sf	45,655
1000	CW 4 19-06w x 20-08h [1ea]	403.00 sf	115.00 /sf	46,345
	<i>Curtain Wall</i>		<u>1.195/sf</u>	<u>199,985</u>
	167,352.00 sf			
<i>08-5113.100 Windows - Aluminum</i>				
10	W1 2-0 x 2-0 -- 10	40.00 sf	92.00 /sf	3,680
10	W2 2-8 x 2-8 -- 14	100.00 sf	92.00 /sf	9,200
10	W3 4 x 4 -- 16	256.00 sf	92.00 /sf	23,552
10	W4 6 x 6 -- 12	432.00 sf	92.00 /sf	39,744
10	W5 8 x 8 -- 1	64.00 sf	92.00 /sf	5,888
10	W6 3-4 x 6-0 -- 7	140.00 sf	92.00 /sf	12,880
10	W7 3w x 5-2 -- 2	31.00 sf	92.00 /sf	2,852
10	W8 5w x 6-4 -- 6	190.00 sf	92.00 /sf	17,480
	<i>Windows - Aluminum</i>		<u>0.689/sf</u>	<u>115,276</u>
	167,352.00 sf			
	OPENINGS		10.22 /sf	1,710,336
	167,352.00 sf			
<i>10-7000.000 EXTERIOR SPECIALITIES</i>				
<i>10-7113.000 Sun Control Devices</i>				
10	Prefinished Aluminum Sun Shades	736.00 lf	275.00 /lf	202,400
	<i>Sun Control Devices</i>		<u>1.209/sf</u>	<u>202,400</u>
	167,352.00 sf			
	EXTERIOR SPECIALITIES		1.209/sf	202,400
	167,352.00 sf			
	B2020 Exterior Windows		12.725/sf	2,129,522
	167,352.00 sf			

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
B2030	Exterior Doors			
05-0000.000	METALS			
05-5820.120	Misc Steel			
80	Channel Door Frame(s) - Ext. OH Door (8' W x 7' H+-)	1.00 ea	2,500.00 /ea	2,500
80	Overhead Support(s) - Ext. OH Door (8' W x 7' H+-)	1.00 ea	3,200.00 /ea	3,200
	Misc Steel		0.034/sf	5,700
	167,352.00 sf			
	METALS		0.034/sf	5,700
	167,352.00 sf			
06-0000.000	ROUGH CARPENTRY			
06-0000.010	Carpentry			
2	Exterior Door Blocking	92.00 lf	15.00 /lf	1,380
2	Exterior Door Blocking At Ext. at OH Door(s) (8' W x 7'H+-)	22.00 lf	15.00 /lf	330
	Carpentry		0.01 /sf	1,710
	167,352.00 sf			
	ROUGH CARPENTRY		0.01 /sf	1,710
	167,352.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-9200.200	Exterior Caulking			
10	Caulking Exterior Doors	92.00 lf	7.00 /lf	644
10	Caulking Exterior Overhead Coiling Doors	22.00 lf	7.00 /lf	154
	Exterior Caulking		0.005/sf	798
	167,352.00 sf			
	THERMAL & MOIST PROTECT		0.005/sf	798
	167,352.00 sf			
08-0000.000	OPENINGS			
08-1100.300	Doors - Hollow Metal Doors And Frames			
10	S2-1 (Roof Stair) HM Door,Frame, Hardware & Installation - Single	1.00 ea	2,500.00 /ea	2,500
10	1212 HM Door,Frame, Hardware & Installation - Single	1.00 ea	2,500.00 /ea	2,500
10	1131A HM Door,Frame, Hardware & Installation - Pair	1.00 pr	3,500.00 /pr	3,500
10	1158A HM Door,Frame, Hardware & Installation - Pair	1.00 pr	3,500.00 /pr	3,500
10	1158B HM Door,Frame, Hardware & Installation - Pair	1.00 pr	3,500.00 /pr	3,500

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Doors - Hollow Metal Doors And Frames</i>		<i>0.093/sf</i>	<i>15,500</i>
	<i>167,352.00 sf</i>			
08-3300.100	<i>Doors- Overhead</i>			
110	1155A Exterior Overhead Door (8' W x 7' H +-) Overhead Door Corporation; Series 596	1.00 ea	9,800.00 /ea	9,800
	<i>Doors- Overhead</i>		<i>0.059/sf</i>	<i>9,800</i>
	<i>167,352.00 sf</i>			
08-4200.100	<i>Storefront Entrances</i>			
001	1141 SF Entrance,hardware & Insallation - Single	1.00 ea	4,400.00 /ea	4,400
001	1214 SF Entrance,hardware & Insallation - Single	1.00 ea	4,400.00 /ea	4,400
001	1214B SF Entrance,hardware & Insallation - Single	1.00 ea	4,400.00 /ea	4,400
001	1222 SF Entrance,hardware & Insallation - Single	1.00 ea	4,400.00 /ea	4,400
001	1231B SF Entrance,hardware & Insallation - Single	1.00 ea	4,400.00 /ea	4,400
010	1246 SF Entrance,hardware & Insallation - Single	1.00 ea	4,400.00 /ea	4,400
010	1100 SF Entrance,hardware & Insallation - Pair	1.00 pr	8,800.00 /pr	8,800
010	1100A SF Entrance,hardware & Insallation - Pair	1.00 pr	8,800.00 /pr	8,800
010	1100B SF Entrance,hardware & Insallation - Pair	1.00 pr	8,800.00 /pr	8,800
010	1126B SF Entrance,hardware & Insallation - Pair	1.00 pr	8,800.00 /pr	8,800
010	1136 SF Entrance,hardware & Insallation - Pair	1.00 pr	8,800.00 /pr	8,800
010	1136A SF Entrance,hardware & Insallation - Pair	1.00 pr	8,800.00 /pr	8,800
010	1137A SF Entrance,hardware & Insallation - Pair	1.00 pr	8,800.00 /pr	8,800
010	1211 SF Entrance,hardware & Insallation - Pair	1.00 pr	8,800.00 /pr	8,800
010	1233B SF Entrance,hardware & Insallation - Pair	1.00 pr	8,800.00 /pr	8,800
010	S2-1B SF Entrance,hardware & Insallation - Pair	1.00 pr	8,800.00 /pr	8,800
010	S3-1B SF Entrance,hardware & Insallation - Pair	1.00 pr	8,800.00 /pr	8,800
010	S4-1B SF Entrance,hardware & Insallation - Pair	1.00 pr	8,800.00 /pr	8,800
	<i>Storefront Entrances</i>		<i>0.789/sf</i>	<i>132,000</i>
	<i>167,352.00 sf</i>			
	<i>OPENINGS</i>		<i>0.94 /sf</i>	<i>157,300</i>
	<i>167,352.00 sf</i>			
09-0000.000	<i>FINISHES</i>			
09-9113.100	<i>Painting- Exterior</i>			
30	Paint Exterior Door and Frame	2.00 ea	175.00 /ea	350
30	Paint Exterior Pair of Doors and Frame	3.00 pr	275.00 /pr	825
30	Paint Exterior OH Door Frame(s)	1.00 ea	275.00 /ea	275
	<i>Painting- Exterior</i>		<i>0.009/sf</i>	<i>1,450</i>
	<i>167,352.00 sf</i>			
	<i>FINISHES</i>		<i>0.009/sf</i>	<i>1,450</i>
	<i>167,352.00 sf</i>			
10-0000.000	<i>SPECIALTIES</i>			

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
10-1400.120	Signs - Interior			
110	Signage - GC1.1Provide 3" Vinyl #'s At Each Ext Door x2- Ext & Int Face(Where Dble or Bank Of Doors 1# Only)	19.00 ea	165.00 /ea	3,135
	Signs - Interior			<u>3,135</u>
	<b>SPECIALTIES</b>			<b>3,135</b>
	B2030 Exterior Doors		1.016/sf	170,093
	167,352.00 sf			
	<b>B20 EXTERIOR VERTICAL ENCLOSURES</b>		<b>59.853/sf</b>	<b>10,016,561</b>
	167,352.00 sf			
<b>B30</b>	<b>EXTERIOR HORIZONTAL ENCLOSURES</b>			
B3010	Roof Coverings			
06-0000.000	ROUGH CARPENTRY			
06-0000.010	Carpentry			
2	Vertical Roof Sheathing	916.00 sf	4.00 /sf	3,664
2	Roof Blocking	13,789.00 lf	15.00 /lf	206,835
	Carpentry		1.258/sf	<u>210,499</u>
	167,352.00 sf			
	ROUGH CARPENTRY		1.258/sf	210,499
	167,352.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-5300.100	Roofing - Membrane			
2	Roof R-1 And Flashing	73,892.00 sf	18.00 /sf	1,330,056
2	Roof Vertical	916.00 sf	18.00 /sf	16,488
2	Roof R-1B And Flashing	9,999.00 sf	24.00 /sf	239,976
2	Roof R-3B And Flashing	875.00 sf	24.00 /sf	21,000
2	Roof Expansion Joint	78.00 sf	225.00 /sf	17,550
2	Protection of completed roofing.	85,682.00 sf	0.20 /sf	17,136
2	Walkway Pads	2,040.00 sf	15.00 /sf	30,600
2	Protection of completed roofing.	85,682.00 sf	0.20 /sf	<u>17,136</u>
	Roofing - Membrane		10.098/sf	1,689,943
	167,352.00 sf			
07-6200.100	Flashing- Aluminum			
2	Roof Edge Metal	1,926.00 lf	22.00 /lf	42,372
2	1'-2" Fascia W/1'-6" Coping Flashing	1,926.00 lf	74.00 /lf	<u>142,524</u>
	Flashing- Aluminum		1.105/sf	184,896
	167,352.00 sf			

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	THERMAL & MOIST PROTECT		11.203/sf	1,874,839
	167,352.00 sf			
	B3010 Roof Coverings		12.461/sf	2,085,338
	167,352.00 sf			
B3020	Roof Openings			
05-0000.000	METALS			
05-5820.120	Misc Steel			
140	Metal Grating Roof Stair Access Form Stair 2 A6.17	26.00 sf	250.00 /sf	6,500
140	Metal Framing Roof Stair Access Form Stair 2	480.00 lbs	12.00 /lbs	5,760
140	Metal Railings Roof Stair Access Form Stair 2	12.00 lbs	175.00 /lbs	2,100
	Misc Steel		0.101/sf	14,360
	141,600.00 sf			
	METALS		0.101/sf	14,360
	141,600.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-7200.100	Roof Accessories			
12	Manufactured Curbs, Equipment Rails, and Pedestals.	1.00 Allow	25,000.00 /Allow	25,000
12	Roof Access Hatches	1.00 ea	2,500.00 /ea	2,500
12	1 Roof Access Ladders 9' +- J1.6 Line / A4.15	1.00 ea	3,600.00 /ea	3,600
12	2 Roof Access Ladders 9' +- W6.1 Line / A4.15	1.00 ea	3,600.00 /ea	3,600
12	3 Roof Access Ladders 14' +- Z2 Line / A4.15	1.00 ea	5,600.00 /ea	5,600
12	4 Roof Access Ladders 16' +- 10 Line / A4.15	1.00 ea	6,400.00 /ea	6,400
12	Elevator Hoistway Vent. [Basis-of-Design Manufacturer / Product: Greenheck, Model ESJ-401P Stationary Blade Louver Penthouse ]	1.00 ea	4,200.00 /ea	4,200
	Roof Accessories		0.304/sf	50,900
	167,352.00 sf			
	THERMAL & MOIST PROTECT		0.304/sf	50,900
	167,352.00 sf			
08-0000.000	OPENINGS			
08-6200.100	Skylights			
20	Skylight - Metal Framed	234.00 sf	175.00 /sf	40,950
20	Skylight - Metal Framed	133.00 sf	175.00 /sf	23,275
	Skylights		0.384/sf	64,225
	167,352.00 sf			



Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>OPENINGS</i>		<i>0.384/sf</i>	<i>64,225</i>
	<i>167,352.00 sf</i>			
	<i>B3020 Roof Openings</i>		<i>0.774/sf</i>	<i>129,485</i>
	<i>167,352.00 sf</i>			
	<b>B30 EXTERIOR HORIZONTAL ENCLOSURES</b>		<b>13.235/sf</b>	<b>2,214,823</b>
	<i>167,352.00 sf</i>			
	<b>B SHELL</b>		<b>113.726/sf</b>	<b>19,032,220</b>
	<i>167,352.00 sf</i>			
<b>C</b>	<b>INTERIORS</b>			
<b>C10</b>	<b>INTERIOR CONSTRUCTION</b>			
<i>C1010</i>	<i>Interior Partitions</i>			
<i>04-0000.000</i>	<i>MASONRY</i>			
<i>04-2200.080</i>	<i>Block- 8" CMU</i>			
102	E1 8" CMU 1 HR. Grouted Solid S0.02 [Includes Staging/Access]	1,450.00 sf	32.00 /sf	46,400
102	E1 8" CMU 1 HR. Elevator Machine Room	364.00 sf	28.00 /sf	10,192
102	G1 12" CMU 26' HT. - 1 HR Gym	2,130.00 sf	32.00 /sf	68,160
102	G1 6" CMU 25' HT.	452.00 sf	26.00 /sf	11,752
102	G1 4" CMU 25' HT.	156.00 sf	24.00 /sf	3,744
102	G2 12" CMU 43' HT. - 2 HR Sep Wall	3,401.00 sf	36.00 /sf	122,436
	<i>Block- 8" CMU</i>		<i>1.57 /sf</i>	<i>262,684</i>
	<i>167,352.00 sf</i>			
	<i>MASONRY</i>		<i>1.57 /sf</i>	<i>262,684</i>
	<i>167,352.00 sf</i>			
<i>05-0000.000</i>	<i>METALS</i>			
<i>05-5820.120</i>	<i>Misc Steel</i>			
10	Seismic Clips	54.00 ea	250.00 /ea	13,500
140	Support for Operable Partition	55.00 lf	200.00 /lf	11,000
140	Interior Lintels	1.00 ls	5,500.00 /ls	5,500
140	Misc interior	167,352.00 ls	0.30 /ls	50,206
	<i>Misc Steel</i>		<i>0.479/sf</i>	<i>80,206</i>
	<i>167,352.00 sf</i>			
	<i>METALS</i>		<i>0.479/sf</i>	<i>80,206</i>
	<i>167,352.00 sf</i>			

**60% Construction Development Budget Estimate Uniformat** 2019\_06\_07 Reconciled

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	METALS		0.479/sf	80,206
	167,352.00 sf			
06-0000.000	ROUGH CARPENTRY			
06-0000.010	Carpentry			
2	In Wall And Misc. Blocking	167,352.00 sf	1.25 /sf	209,190
2	Backer Boards At Elec/Tel/Data Carpentry	500.00 Sf	8.00 /Sf	4,000
			1.274/sf	213,190
	167,352.00 sf			
	ROUGH CARPENTRY		1.274/sf	213,190
	167,352.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-9200.100	Interior Caulking			
40	Caulking Interior Window Openings	2,220.00 lf	6.50 /lf	14,430
	Interior Caulking		0.086/sf	14,430
	167,352.00 sf			
07-9513.100	Expansion Covers			
12	Interior Expansion Joints	167,352.00 lf	0.40 /lf	66,941
	Expansion Covers		0.40 /sf	66,941
	167,352.00 sf			
	THERMAL & MOIST PROTECT		0.486/sf	81,371
	167,352.00 sf			
08-0000.000	OPENINGS			
08-1100.500	HM Frames			
100	BL1 5-4 w x 2-4 / HM Borrowed Lite Frames	5.00 ea	150.00 /ea	750
100	BL2 3 w x 4 / HM Borrowed Lite Frames	47.00 ea	180.00 /ea	8,460
100	BL3 4-8 w x 4 / HM Borrowed Lite Frames	9.00 ea	280.00 /ea	2,520
100	BL4 3w x 3 / HM Borrowed Lite Frames	4.00 ea	135.00 /ea	540
100	BL5 4 w x 4 / HM Borrowed Lite Frames	12.00 ea	200.00 /ea	2,400
	HM Frames		0.088/sf	14,670
	167,352.00 sf			
08-4100.100	Storefronts - Aluminum			
10	SF-06 Alum. Storefront And Glazing	64.00 sf	80.00 /sf	5,120
10	SF-09 Alum. Storefront Frames And Glazing	103.00 sf	80.00 /sf	8,240
10	SF-19 Alum. Storefront And Glazing	95.00 sf	80.00 /sf	7,600
10	SF-20 Alum. Storefront And Glazing 21 w x 10h	215.00 sf	80.00 /sf	17,200
10	SF-22 Alum. Storefront And Glazing 13-8 w x 10h	137.00 sf	80.00 /sf	10,960
10	SF-23 Alum. Storefront And Glazing 23-5 w x 10h	234.00 sf	80.00 /sf	18,720
10	SF-24 Alum. Storefront Frames And Glazing 9-0 w x 9-0h	81.00 sf	80.00 /sf	6,480

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
08-4100.100	Storefronts - Aluminum			
10	SF-25/26 Alum. Storefront Frames And Glazing 9-0 w x 6-0h	648.00 sf	80.00 /sf	51,840
	Storefronts - Aluminum		0.754/sf	126,160
	167,352.00 sf			
08-4400.110	Curtain Wall			
1000	CW 5 *FR 17-2 x 10 Frames And Glazing [STAIR 5]	172.00 sf	245.00 /sf	42,140
1000	CW 6 *FR 9-5 x 10 Frames And Glazing [STAIR 5]	188.00 sf	245.00 /sf	46,060
1000	CW 7 *FR 2-4 x 10h Frames And Glazing [STAIR 5]	47.00 sf	245.00 /sf	11,515
1000	CW 8 *FR 9-10 x 10 Frames And Glazing [STAIR 5]	98.00 sf	245.00 /sf	24,010
1000	CW 9 *FR 17-3 x 10 Frames And Glazing [STAIR 5]	173.00 sf	245.00 /sf	42,385
1000	CW 10 *FR 27-2 x 10 Frames And Glazing [STAIR 5]	543.00 sf	245.00 /sf	133,035
	Curtain Wall		1.788/sf	299,145
	167,352.00 sf			
08-8100.100	Glazing- Glass			
100	BL1 5-4 w x 2-4 / HM Borrowed Lite Glass & Glazing	55.00 sf	32.00 /sf	1,760
100	BL2 3 w x 4 / HM Borrowed Lite Glass & Glazing	564.00 sf	32.00 /sf	18,048
100	BL3 4-8 w x 4 / HM Borrowed Lite Glass & Glazing	112.00 sf	32.00 /sf	3,584
100	BL4 3w x 3 / HM Borrowed Lite Frames Glass & Glazing	36.00 sf	32.00 /sf	1,152
100	BL5 4w x 4 / HM Borrowed Lite Frames Glass & Glazing	192.00 sf	32.00 /sf	6,144
	Glazing- Glass		0.183/sf	30,688
	167,352.00 sf			
	OPENINGS		2.812/sf	470,663
	167,352.00 sf			
09-0000.000	FINISHES			
09-2000.010	Drywall Partitions			
100	A 14' HT- Non Rated w/ 6" Metal Studs 1 Layer of Gyp Each Side, Batt Insul.	102,325.00 sf	11.80 /sf	1,207,435
100	A 27'-6"HT- w/ 6" Metal Studs 1 Layer of Gyp Each Side, Batt Insul.	6,632.00 sf	12.50 /sf	82,900
100	A1 14' HT- 1 HR. w/ 6" Metal Studs 1 Layer of Gyp Each Side, Batt Insul.	1,992.00 sf	13.50 /sf	26,892
100	A2 14' HT- 2 HR. w/ 6" Metal Studs 2 Layers of Gyp Each Side, Batt Insul.	965.00 sf	16.00 /sf	15,440
100	B 14' HT- w/ 3 5/8" Metal Studs 1 Layer of Gyp Each Side, Batt Insul.	141.00 sf	10.80 /sf	1,523
100	F 14' HT- Non Rated w/ 2 1/2" Metal Stud, 1 Layer of Gyp, Batt Insul.	20,290.00 sf	7.00 /sf	142,030
100	F 27" HT- Non Rated w/ 2 1/2" Metal Stud, 1 Layer of Gyp, Batt Insul.	3,518.00 sf	7.50 /sf	26,385
100	F4 14' HT- 1 Layer Gyp. One Side w/ 3 5/8" Metal Studs, Batt Insul.	25,379.00 sf	8.75 /sf	222,066

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
09-2000.010	<i>Drywall Partitions</i>			
100	F4 14' HT- 1 Layer Gyp. One Side w/ 3 5/8" Metal Studs, No Batt	3,378.00 sf	8.25 /sf	27,869
100	F6 14' HT- Non Rated Furring w/ 6" Metal Stud, 1 Layer of Gyp, Batt Insul.	22,559.00 sf	9.80 /sf	221,078
100	A1 Stair 1 1 HR RATED SEPARATION 6" 1 +1	5,608.00 sf	13.85 /sf	77,671
100	F4 Stair 1 2-1/2" 1+0	2,731.00 sf	7.00 /sf	19,117
100	F6 Stair 2 6" 1+0	513.00 sf	10.00 /sf	5,130
100	S1 Stair SHAFTWALL 2-1/2" STUD 1 HR RATED W/ (1) LAYER 5/8" GYP BD (UL U415 SYSTEM A)	7,867.00 sf	24.00 /sf	188,808
100	Scaffolding/Lifts/Logistics	167,352.00 sf	0.75 /sf	125,514
100	Cleanup	167,352.00 sf	1.75 /sf	292,866
100	Install Hollow Metal Door Frames	305.00 sf	210.00 /sf	64,050
	<i>Drywall Partitions</i>		<u>16.413/sf</u>	<u>2,746,774</u>
	167,352.00 sf			
	<i>FINISHES</i>		16.413/sf	2,746,774
	167,352.00 sf			
10-0000.000	<i>SPECIALTIES</i>			
10-2226.100	<i>Partitions Folding</i>			
2	1137 Operable Partition at Platform - Manual (26w +- x 12'h +-) A5.14	312.00 sf	68.00 /sf	21,216
	<i>Partitions Folding</i>		<u>0.127/sf</u>	<u>21,216</u>
	167,352.00 sf			
	<i>SPECIALTIES</i>		0.127/sf	21,216
	167,352.00 sf			
	<i>C1010 Interior Partitions</i>		23.161/sf	3,876,103
	167,352.00 sf			
C1020	<i>Interior Doors</i>			
05-0000.000	<i>METALS</i>			
05-5820.120	<i>Misc Steel</i>			
80	Overhead Support(s) - OH Coiling Grille at Kitchen (17 'w x 10'h)	17.00 lf	275.00 /lf	4,675
80	Overhead Support(s) - OH Coiling Grille at Kitchen (17 w x 10'h)	17.00 lf	275.00 /lf	4,675
80	Overhead Support(s) - 1102 HSD Folding 15'-4w" x 8'h x 11-1/2"thk 90 Min	50.00 lf	275.00 /lf	13,750
80	Overhead Support(s) - 1202C FD Media 12'w x 8'h	12.00 lf	275.00 /lf	3,300
80	Overhead Support(s) - 1222B FD Kinder 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 1224B FD Kinder 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 2215A FD Alum. 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 2216A FD Alum. 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 2227A FD Alum. 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 2228A FD Alum. 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 3214A Alum. FD 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 3215A Alum. FD 8'w x 8'h	8.00 lf	275.00 /lf	2,200

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
05-5820.120	Misc Steel			
80	Overhead Support(s) - 3226A Alum. FD 8'w x 8'h	8.00 lf	275.00 /lf	2,200
80	Overhead Support(s) - 3227A Alum. FD 8'w x 8'h	8.00 lf	275.00 /lf	2,200
	Misc Steel		0.289/sf	48,400
	167,352.00 sf			
	METALS		0.289/sf	48,400
	167,352.00 sf			
07-0000.000	THERMAL & MOIST PROTECT			
07-9200.100	Interior Caulking			
30	Caulking Interior Doors	12,856.00 lf	6.096 /lf	78,372
	Interior Caulking		0.468/sf	78,372
	167,352.00 sf			
	THERMAL & MOIST PROTECT		0.468/sf	78,372
	167,352.00 sf			
08-0000.000	OPENINGS			
08-1100.300	Doors - Hollow Metal Doors And Frames			
10	HM Doors	0.00	NAM	
			E	
10	Door F - 3' X 7' HM -Single	2.00	ea	245.00 /ea
10	Door F - 3' X 7' HM -Single (90 MIN)	1.00	ea	300.00 /ea
10	Door F - 6' X 7' HM - Pair	6.00	pr	600.00 /pr
10	Door F - 6' X 7' HM - Pair (60 MIN.)	2.00	pr	650.00 /pr
10	Door F - 6' X 7' HM - Pair (90 MIN.)	1.00	pr	800.00 /pr
220	FRAMES	0.00	NAM	
			E	
220	Frame 1 - HM 3'-4" x 7'-4"	7.00	ea	220.00 /ea
220	Frame 1 - HM 3'-4" x 7'-4" (60 Min)	1.00	ea	250.00 /ea
220	Frame 2 - HM 6'-4" x 7'-4"	7.00	ea	250.00 /ea
220	Frame 3 - HM 3'-4" x 7'-2"	146.00	ea	220.00 /ea
220	Frame 3 - HM 3'-4" x 7'-2" (60 Min)	1.00	ea	250.00 /ea
220	Frame 3 - HM 3'-4" x 7'-2" (90 Min)	2.00	ea	275.00 /ea
220	Frame 4 - HM 6'-4" x 7'-2"	13.00	ea	220.00 /ea
220	Frame 4 - HM 6'-4" x 7'-2" (60 Min)	13.00	ea	250.00 /ea
220	Frame 4 - HM 6'-4" x 7'-2" (90 Min)	1.00	ea	275.00 /ea
220	Frame 5 - HM 4'-8" x 7'-2" w/Side Light	19.00	ea	500.00 /ea
220	Frame 6 - HM 5' x 8'-10" w/Side Light & Transom	88.00	ea	550.00 /ea
220	Frame 7 - HM 3'-4" x 8'-10" w/Transom	1.00	ea	500.00 /ea
220	Frame 7 - HM 7'-4" x 8'-10" w/Transom	7.00	ea	550.00 /ea
220	Frame 8 - HM 4'-10" x 7'-4" w/Side Light	1.00	ea	475.00 /ea
220	Frame 9 - HM 6'-4" x 9'-2" w/Transom	1.00	ea	475.00 /ea
	Doors - Hollow Metal Doors And Frames		0.672/sf	112,535
	167,352.00 sf			
08-1400.200	Doors - Wood			
102	WOOD DOORS			
102	Door F - 2'-10" x 7' Wood -Single	1.00	ea	500.00 /ea
102	Door F - 3' X 7' Wood -Single	130.00	ea	500.00 /ea
102	Door F - 3' X 7' Wood -Single (90 Min)	1.00	ea	575.00 /ea

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
08-1400.200	<i>Doors - Wood</i>			
102	Door F - 3' X 7' Wood -Single (STC 52)	5.00 ea	500.00 /ea	2,500
102	Door F - 6' x 7' Wood Pair	20.00 pr	900.00 /pr	18,000
102	Door F - 6' x 7' Wood Pair (60 Min)	12.00 pr	1,000.00 /pr	12,000
102	Door F - 7' x 7' Wood Pair	2.00 pr	1,000.00 /pr	2,000
102	Door FG - 3' x 7' Wood Single	81.00 ea	550.00 /ea	44,550
102	Door FG - 3' x 7' Wood Single (STC 52)	3.00 ea	575.00 /ea	1,725
102	Door FG - 6' x 7' Wood Pair	1.00 pr	1,100.00 /pr	1,100
102	Door FG - 7' x 7' Wood Pair	1.00 pr	1,100.00 /pr	1,100
102	Door G - 3' x 7' Wood Single	1.00 ea	500.00 /ea	500
102	Door N - 3' x 7' Wood Single	37.00 ea	500.00 /ea	18,500
	<i>Doors - Wood</i>		<u>1.004/sf</u>	<u>168,050</u>
	167,352.00 sf			
08-3500.100	<i>Doors- Coiling</i>			
50	OH Coiling Grille 17' x 10'-6"	2.00 ea	21,250.00 /ea	42,500
	<i>Doors- Coiling</i>		<u>0.254/sf</u>	<u>42,500</u>
	167,352.00 sf			
08-3513.230	<i>Acordian Folding Fire Door</i>			
60	1125 HSD Folding WON 15'-4w" x8'h x 11-1/2"thk 90 Min	122.64 sf	225.00 /sf	27,594
60	2112 HSD Folding WON 15'-4w" x8'h x 11-1/2"thk 90 Min	122.64 sf	225.00 /sf	27,594
60	31025 HSD Folding WON 15'-4w" x8'h x 11-1/2"thk 90 Min	122.64 sf	225.00 /sf	27,594
	<i>Acordian Folding Fire Door</i>		<u>0.495/sf</u>	<u>82,782</u>
	167,352.00 sf			
08-4200.100	<i>Storefront Entrances</i>			
150	1101 SF Entrance,hardware & Insallation - Single	1.00 ea	4,000.00 /ea	4,000
150	1101A SF Entrance,hardware & Insallation - Pair	1.00 ea	8,200.00 /ea	8,200
150	1214A SF Entrance,hardware & Insallation - Pair	1.00 ea	8,200.00 /ea	8,200
	<i>Storefront Entrances</i>		<u>0.122/sf</u>	<u>20,400</u>
	167,352.00 sf			
08-4450.100	<i>Curtain Wall Entrances</i>			
005	S5-1 *FR Stair 5 Pair Doors, Hardware 6w x 7h +-	1.00 pr	10,500.00 /pr	10,500
005	S5-1A *FR Stair 5 Pair Doors, Hardware 6w x 7h +-	1.00 pr	10,500.00 /pr	10,500
005	S5-2 *FR Stair 5 Pair Doors, Hardware 6w x 7h +-	1.00 pr	10,500.00 /pr	10,500
005	S5-3 *FR Stair 5 Pair Doors, Hardware 6w x 7h +-	1.00 pr	10,500.00 /pr	10,500
	<i>Curtain Wall Entrances</i>		<u>0.251/sf</u>	<u>42,000</u>
	167,352.00 sf			
08-7100.090	<i>Finish Hardware</i>			
10	FURNISH & INSTALL HARDWARE	0.00 NAM		
10	Hardware Material Install Single	272.00 ea	975.00 /ea	265,200
10	Hardware Material Install Pair	33.00 pr	1,800.00 /pr	59,400
10	Hardware Material Install Sound Assembly Single	8.00 ea	1,050.00 /ea	8,400

**60% Construction Development Budget Estimate Uniformat**      2019\_06\_07 Reconciled

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
08-7100.090	<i>Finish Hardware</i>			
10	Toilet 2247 DOOR SCHEDULE	1.00 ea	1,645.00 /ea	1,645
	<i>Finish Hardware</i>		2.00 /sf	334,645
	167,352.00 sf			
08-8100.100	<i>Glazing- Glass</i>			
100	Door Frame 5 Glass - 8SqFt ea = 19 Frames	152.00 sf	28.00 /sf	4,256
100	Door Frame 6 Glass - 16SqFt ea = 88 Frames	1,408.00 sf	28.00 /sf	39,424
100	Door Frame 7 Glass - 11SqFt ea = 8 Frames	88.00 sf	28.00 /sf	2,464
100	Door Frame 8 Glass - 8SqFt ea = 1 Frame	12.00 sf	28.00 /sf	336
100	Door Frame 9 Glass - 12SqFt ea	920.00 sf	28.00 /sf	25,760
100	Door N Glass - 1SqFt ea = 37 Doors	37.00 sf	28.00 /sf	1,036
100	Door G Glass - 5SqFt ea = 1 Door	5.00 sf	28.00 /sf	140
100	Door FG Glass - 8SqFt ea = 115 Doors	920.00 sf	28.00 /sf	25,760
100	Mirror 7648	26.00 sf	44.00 /sf	1,144
	<i>Glazing- Glass</i>		0.599/sf	100,320
	167,352.00 sf			
	OPENINGS		5.397/sf	903,232
	167,352.00 sf			
09-0000.000	<i>FINISHES</i>			
09-9123.200	<i>Painting- Interior</i>			
40	Paint Frame(s) - Single HM	272.00 ea	230.00 /ea	62,560
40	Paint Frame(s) - Double HM	33.00 ea	275.00 /ea	9,075
40	Paint Door(s) HM	21.00 ea	330.00 /ea	6,930
	<i>Painting- Interior</i>		0.469/sf	78,565
	167,352.00 sf			
	FINISHES		0.469/sf	78,565
	167,352.00 sf			
10-0000.000	<i>SPECIALTIES</i>			
10-2226.100	<i>Partitions Folding</i>			
2	1205A FD Alum. Media 12'w x 8'h	96.00 sf	240.00 /sf	23,040
2	1242B FD Alum. Kinder 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	1247A FD Alum. Kinder 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	2214A FD Alum. 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	3213A FD Alum. 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	3216A FD Alum. 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	2217A FD Alum. 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	2231A Alum. FD 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	2235A Alum. FD 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	3229A Alum. FD 8'w x 8'h	64.00 sf	240.00 /sf	15,360
2	3233A Alum. FD 8'w x 8'h	64.00 sf	240.00 /sf	15,360
	<i>Partitions Folding</i>		1.055/sf	176,640
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>SPECIALTIES</i>		1.055/sf	176,640
	167,352.00 sf			
	<i>C1020 Interior Doors</i>		7.68 /sf	1,285,209
	167,352.00 sf			
C1030	<i>Fittings</i>			
05-0000.000	<i>METALS</i>			
05-5820.120	<i>Misc Steel</i>			
10	Platform Rails (4 - 1 Upper One Lower Each Side) A7.12	80.00 lf	165.00 /lf	13,200
10	Ladder to Roof Hatch	1.00 ea	3,500.00 /ea	3,500
10	Ballet Bar	10.00 lf	125.00 /lf	1,250
10	1/8" Column Plate 1'-8"w x 32' A1.53 / Column Closures	1.00 ls	7,500.00 /ls	7,500
10	Bench Supports OT/PT Support	60.00 ea	175.00 /ea	10,500
10	Misc Metals Allowance	167,352.00 lf	1.50 /lf	251,028
	<i>Misc Steel</i>		1.715/sf	286,978
	167,352.00 sf			
	<i>METALS</i>		1.715/sf	286,978
	167,352.00 sf			
06-2000.000	<i>FINISH CARPENTRY</i>			
06-2000.010	<i>Finish Carpentry</i>			
2	Media Bench 5' +-	3.00 ea	2,200.00 /ea	6,600
2	Cafe Benches	4.00 ea	3,200.00 /ea	12,800
2	Window Seats Inspiration AQ1.51	12.00 ea	2,800.00 /ea	33,600
2	Media 3Form Wall Features 1	60.00 sf	175.00 /sf	10,500
2	Media 3Form Wall Features 2	60.00 sf	175.00 /sf	10,500
2	Media 3Form Wall Features 3	60.00 sf	175.00 /sf	10,500
2	Media 3Form Wall Features 4	60.00 sf	175.00 /sf	10,500
2	Lego Wall	286.00 sf	36.00 /sf	10,296
2	Window Sills & Aprons HRWD Shop Finished 7" +- w x 2-1/4"	1,925.00 lf	48.00 /lf	92,400
2	Media Center desk	1.00 ea	12,500.00 /ea	12,500
2	Plam Lockers	1.00 ea	49,000.00 /ea	49,000
	<i>Finish Carpentry</i>		1.549/sf	259,196
	167,352.00 sf			
	<i>FINISH CARPENTRY</i>		1.549/sf	259,196
	167,352.00 sf			
06-4100.000	<i>ARCHITECTURAL WOOD CASEWORK</i>			
06-4210.120	<i>Wood Veneer Panels</i>			
c 10	Wood Veneer Wainscot Per - Supplement #4	1,305.00 sf	80.00 /sf	104,400
c 10	Wood Veneer	2,605.00 sf	65.00 /sf	169,325



**60% Construction Development Budget Estimate Uniformat** 2019\_06\_07 Reconciled

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	Wood Veneer Panels		1.636/sf	273,725
	167,352.00 sf			
	ARCHITECTURAL WOOD CASEWORK		1.636/sf	273,725
	167,352.00 sf			
10-0000.000	SPECIALTIES			
10-1113.100	Chalkboards/Markerboards			
2	MB 4' x 5'	3,340.00 sf	22.00 /sf	73,480
2	MB 6' x 5'	90.00 sf	22.00 /sf	1,980
2	MB 8' x 5'	3,520.00 sf	22.00 /sf	77,440
2	TB 4' X 5'	1,960.00 sf	20.00 /sf	39,200
2	TB 6' X 5'	420.00 sf	20.00 /sf	8,400
2	TB 8' X 5'	440.00 sf	20.00 /sf	8,800
2	Tack Strip At 3" +-	9,000.00 lf	8.00 /lf	72,000
2	Wardrobe MB Surface	660.00 sf	22.00 /sf	14,520
	Chalkboards/Markerboards		1.768/sf	295,820
	167,352.00 sf			
10-1133.100	Display Cases			
10	Glass Display Cases 6' x 8' x 1'-7"	10.00 ea	8,500.00 /ea	85,000
	Display Cases		0.508/sf	85,000
	167,352.00 sf			
10-1400.120	Signs - Interior			
110	Building Directory - Signage Allowance	167,352.00 sf	0.55 /sf	92,044
	Signs - Interior		0.55 /sf	92,044
	167,352.00 sf			
10-2113.110	Toilet Partitions			
2	ADA Toilet Compartment (Solid Polymer Resin, Radiused Edges, Solid Color)	9.00 ea	1,800.00 /ea	16,200
2	Standard Toilet Compartment (Solid Polymer Resin, Radiused Edges, Solid Color)	45.00 ea	1,400.00 /ea	63,000
2	Urinal Screen (Solid Polymer Resin, Radiused Edges, Solid Color)	6.00 ea	375.00 /ea	2,250
	Toilet Partitions		0.487/sf	81,450
	167,352.00 sf			
10-2123.200	Curtains & Track			
2	Cubicle Curtains and Track	80.00 lf	75.00 /lf	6,000
	Curtains & Track		0.036/sf	6,000
	167,352.00 sf			
10-2613.100	Corner Guards			
2	CG Allowance	150.00 ea	175.00 /ea	26,250
	Corner Guards		0.157/sf	26,250
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Corner Guards</i>		<i>0.157/sf</i>	<i>26,250</i>
	<i>167,352.00 sf</i>			
10-2813.100	<i>Toilet Accessories</i>			
2	Waste Receptacle (WR)(20 Gallons 11.5" x 20.6")	44.00 ea	200.00 /ea	8,800
2	Mirrors, Framed (MIR, CLD-MIR, PK-MIR)	56.00 ea	450.00 /ea	25,200
2	Sanitary Napkin Disposal Unit (SND)	12.00 ea	95.00 /ea	1,140
2	Sanitary Napkin Double-Disposal Unit (SND)	24.00 ea	185.00 /ea	4,440
2	Shower Curtain Rod and Curtain (SC)	1.00 ea	386.00 /ea	386
2	Folding Shower Seat (FSS)	1.00 ea	575.00 /ea	575
2	Towel bar (TB)	1.00 ea	250.00 /ea	250
2	Robe Hook (RB HK)	1.00 ea	95.00 /ea	95
2	Hook Strip (HS)	1.00 ea	170.00 /ea	170
2	Baby Changing Table (CHGTB)	2.00 ea	785.00 /ea	1,570
2	Utility Shelf/Mop and Broom Holder (MH)	4.00 ea	225.00 /ea	900
2	Grab Bar 42"	79.00 ea	185.00 /ea	14,615
2	Grab Bar 36"	9.00 ea	155.00 /ea	1,395
2	OFOI Toilet Paper Dispenser (TPD)	92.00 Other s	55.00 /Other s	5,060
2	OFOI Paper Towel Dispenser (PTD)	44.00 Other s	375.00 /Other s	16,500
2	OFOI Soap Dispenser (SD)	50.00 Other s	55.00 /Other s	2,750
	<i>Toilet Accessories</i>		<i>0.501/sf</i>	<i>83,846</i>
	<i>167,352.00 sf</i>			
10-4413.100	<i>Fire Cabinets</i>			
30	Fire Extinguisher and Cabinet	39.00 ea	548.077 /ea	21,375
30	Fire Extinguisher at Mechanical Area(s)	14.00 Allow	225.00 /Allow	3,150
30	A.E.D. With Cabinet	2.00 ea	2,200.00 /ea	4,400
	<i>Fire Cabinets</i>		<i>0.173/sf</i>	<i>28,925</i>
	<i>167,352.00 sf</i>			
10-5100.100	<i>Lockers Metal</i>			
10	Double Tier HDPE Student Lockers 12" x 15" x 60"	300.00 ea	775.00 /ea	232,500
10	Single Tier HDPE Lockers Level 2	362.00 ea	420.00 /ea	152,040
10	Staff Metal Lockers	5.00 ea	165.00 /ea	825
	<i>Lockers Metal</i>		<i>2.303/sf</i>	<i>385,365</i>
	<i>167,352.00 sf</i>			
	<i>SPECIALTIES</i>		<i>6.482/sf</i>	<i>1,084,700</i>
	<i>167,352.00 sf</i>			
	<i>C1030 Fittings</i>		<i>11.381/sf</i>	<i>1,904,599</i>
	<i>167,352.00 sf</i>			
	<b>C10 INTERIOR CONSTRUCTION</b>		<b>42.222/sf</b>	<b>7,065,911</b>
	<b>167,352.00 sf</b>			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
<b>C10 INTERIOR CONSTRUCTION</b>			<b>42.222/sf</b>	<b>7,065,911</b>
	167,352.00 sf			
<b>C20 STAIRS</b>				
C2010	Stair Construction			
03-0000.000	CONCRETE			
03-0010.160	Concrete - Stairs And Landings			
105	Stair 1	2.00 Flt	2,200.00 /Flt	4,400
105	Stair 2 To Roof	3.00 Flt	2,200.00 /Flt	6,600
105	Stair 3	2.00 Flt	2,200.00 /Flt	4,400
105	Stair 4	2.00 Flt	2,200.00 /Flt	4,400
105	Stair 5	2.00 Flt	2,200.00 /Flt	4,400
	Concrete - Stairs And Landings		0.145/sf	24,200
	167,352.00 sf			
	CONCRETE		0.145/sf	24,200
	167,352.00 sf			
05-0000.000	METALS			
05-5113.100	Stairs & Ladders			
10	Stair 1	2.00 Flt	20,000.00 /Flt	40,000
10	Stair 2 To Roof	3.00 Flt	20,000.00 /Flt	60,000
10	Stair 3	2.00 Flt	20,000.00 /Flt	40,000
10	Stair 4	2.00 Flt	20,000.00 /Flt	40,000
10	Stair 5	2.00 Flt	20,000.00 /Flt	40,000
	Stairs & Ladders		1.315/sf	220,000
	167,352.00 sf			
05-5213.200	Handrails - Guardrails			
10	Stair 1 Wall Railings	108.00 lf	120.00 /lf	12,960
10	Stair 2 Wall Railings	152.00 lf	120.00 /lf	18,240
10	Stair 3 Wall Railings	108.00 lf	120.00 /lf	12,960
10	Stair 4 Wall Railings	108.00 lf	120.00 /lf	12,960
10	Stair 5 Wall Railings	100.00 lf	120.00 /lf	12,000
10	Stair 1 Wire Mesh Railings Type 2	80.00 lf	275.00 /lf	22,000
10	Stair 2 Wire Mesh Railings Type 2	102.00 lf	275.00 /lf	28,050
10	Stair 2 8' Wire Mesh With Mesh Door/Hardware	13.00 lf	750.00 /lf	9,750
10	Stair 4 Wire Mesh Railings Type 2	80.00 lf	275.00 /lf	22,000
10	Stair 5 Glass Railings Type 1	90.00 lf	500.00 /lf	45,000
10	Stair 2 Wire Mesh Railings Type 2	102.00 lf	275.00 /lf	28,050
10	Stair 3 Wire Mesh Railings Type 2	80.00 lf	275.00 /lf	22,000
10	Stair 4 Wire Mesh Railings Type 2	80.00 lf	275.00 /lf	22,000
	Handrails - Guardrails		1.601/sf	267,970
	167,352.00 sf			
	METALS		2.916/sf	487,970
	167,352.00 sf			

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>METALS</i>		2.916/sf	487,970
	167,352.00 sf			
	<i>C2010 Stair Construction</i>		3.06 /sf	512,170
	167,352.00 sf			
C2020	<i>Stair Finishes</i>			
09-0000.000	<i>FINISHES</i>			
09-6500.200	<i>Flooring- Resilient Stair</i>			
2	RFL Rubber Sheet Flooring At Stairs	3,050.00 sf	14.00 /sf	42,700
2	RRT Rubber Treads And Risers Stair 1	248.00 lf	22.00 /lf	5,456
2	RRT Rubber Treads And Risers Stair 2	378.00 lf	22.00 /lf	8,316
2	RRT Rubber Treads And Risers Stair 3	248.00 lf	22.00 /lf	5,456
2	RRT Rubber Treads And Risers Stair 4	248.00 lf	22.00 /lf	5,456
2	RRT Rubber Treads And Risers Stair 5	248.00 lf	22.00 /lf	5,456
2	RFL Rubber Sheet Flooring Minor Preparation	4,420.00 sf	0.75 /sf	3,315
2	RFL Rubber Sheet Flooring Initial Cleaning Per Manu. Require.	4,420.00 sf	0.80 /sf	3,536
2	RFL Rubber Sheet Flooring Protection Per Manu.Require.	4,420.00 sf	0.75 /sf	3,315
	<i>Flooring- Resilient Stair</i>		0.496/sf	83,006
	167,352.00 sf			
09-9123.200	<i>Painting- Interior</i>			
30	Paint Stair Well 1	2.00 Flt	2,500.00 /Flt	5,000
30	Paint Stair Well 2	3.00 Flt	2,500.00 /Flt	7,500
30	Paint Stair Well 3	2.00 Flt	2,500.00 /Flt	5,000
30	Paint Stair Well 4	2.00 Flt	2,500.00 /Flt	5,000
30	Paint Stair Well 5	2.00 Flt	2,500.00 /Flt	5,000
	<i>Painting- Interior</i>		0.164/sf	27,500
	167,352.00 sf			
	<i>FINISHES</i>		0.66 /sf	110,506
	167,352.00 sf			
	<i>C2020 Stair Finishes</i>		0.66 /sf	110,506
	167,352.00 sf			
	<b>C20 STAIRS</b>		<b>3.721/sf</b>	<b>622,676</b>
	<b>167,352.00 sf</b>			
<b>C30</b>	<b>INTERIOR FINISHES</b>			
C3010	<i>Wall Finishes</i>			
06-2000.000	<i>FINISH CARPENTRY</i>			
06-2000.010	<i>Finish Carpentry</i>			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
06-2000.010	<i>Finish Carpentry</i>			
2	FRP at Janitors Closet per A9.01 & A9.02 10' HT (ALT)	800.00 sf	12.00 /sf	9,600
	<i>Finish Carpentry</i>		<u>0.057/sf</u>	<u>9,600</u>
	167,352.00 sf			
	<i>FINISH CARPENTRY</i>		0.057/sf	9,600
	167,352.00 sf			
09-0000.000	<i>FINISHES</i>			
09-3116.100	<i>Tile- Quarry</i>			
2	T - Glazed Wall Tile 8" x 8"	3,780.00 sf	22.00 /sf	83,160
2	LVL 1 Tile Mix = T14-27% & T2-17% & T15-7% & T3-30% & T1-19%	9,202.00 sf	24.00 /sf	220,848
2	LVL 2 Tile Mix = T14-27% & T4-17% & T16-7% & T5-30% & T1-19%	4,056.00 sf	24.00 /sf	97,344
2	LVL 3 Tile Mix = T14-27% & T6-17% & T17-7% & T7-30% & T1-19%	4,074.00 sf	24.00 /sf	97,776
	<i>Tile- Quarry</i>			<u>499,128</u>
09-7216.110	<i>Wall Covering Vinyl</i>			
2	Wall Coverings	1,600.00 ls	38.00 /ls	60,800
	<i>Wall Covering Vinyl</i>		<u>0.363/sf</u>	<u>60,800</u>
	167,352.00 sf			
09-8400.100	<i>Acoustical Panels</i>			
2	Acoustical Wall Panels Gym	3,111.00 sf	17.00 /sf	52,887
2	Acoustical Wall Panels Cafeteria - Curved	111.00 sf	50.00 /sf	5,550
2	Acoustical Wall Cafeterial - Flat	940.00 sf	40.00 /sf	37,600
2	Acoustical Wall Panel Ensemble/Music/Practice	832.00 sf	40.00 /sf	33,280
	<i>Acoustical Panels</i>		<u>0.773/sf</u>	<u>129,317</u>
	167,352.00 sf			
09-9123.200	<i>Painting- Interior</i>			
10	Paint Walls	296,855.00 sf	0.80 /sf	237,484
10	Paint Walls CMU	8,400.00 sf	1.10 /sf	9,240
20	Paint Green Screen	150.00 sf	4.00 /sf	600
20	Paint Borrowed Lites HM	77.00 ea	175.00 /ea	13,475
	<i>Painting- Interior</i>		<u>1.558/sf</u>	<u>260,799</u>
	167,352.00 sf			
	<i>FINISHES</i>		5.677/sf	950,044
	167,352.00 sf			
	<i>C3010 Wall Finishes</i>		5.734/sf	959,644
	167,352.00 sf			
C3020	<i>Floor Finishes</i>			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
09-0000.000	FINISHES			
09-3116.100	Tile- Quarry			
2	Quarry Tile	2,243.00 sf	24.00 /sf	53,832
2	Quarry Tile Base	425.00 lf	22.00 /lf	9,350
2	Quarry Tile Minor Preparation	2,243.00 sf	0.75 /sf	1,682
2	Quarry Tile Initial Cleaning Per Manu.Require	2,243.00 sf	0.30 /sf	673
2	Quarry Tile Protection With Red-Rosin Paper (Part 3)	2,243.00 sf	0.75 /sf	1,682
2	Quarry Tile Owner Exta Materials at 5% (Package,Deliver)	112.00 sf	24.00 /sf	2,688
2	Quarry Base Owner Exta Materials at 5% (Package,Deliver)	21.00 lf	20.00 /lf	420
2	Quarry Tile Mock-up Minimum 25 sf In Place	25.00 sf	24.00 /sf	600
2	Quarry Base Mock-up Minimum 25 sf In Place	25.00 lf	20.00 /lf	500
	Tile- Quarry		0.427/sf	71,427
	167,352.00 sf			
09-6400.100	Flooring- Wood			
145	-- Gymnasium Wood Athletic Floor , Robbins, Inc, Bio-Channel Star	6,000.00 sf	18.75 /sf	112,500
145	Gymnasium Wood Athletic Floor Vented Base	320.00 lf	7.25 /lf	2,320
145	Floor Minor Preparation	6,000.00 sf	0.75 /sf	4,500
145	Gymnasium Wood Athletic Flooring Polish and Clean Per Manufactures Requirements	6,000.00 sf	0.50 /sf	3,000
145	Gymnasium Wood Athletic Flooring Protection With Red-Rosin Paper (Part 3)	6,000.00 sf	0.75 /sf	4,500
145	Gymnasium Wood Athletic Floor Owner Extra Materials at 5% (Package,Deliver)	300.00 sf	18.75 /sf	5,625
145	-- Platform Wood Strip and Plank Flooring - Sleeper System	874.00 sf	22.00 /sf	19,228
145	Platform Wood Strip and Plank Flooring Vented Base	140.00 lf	7.251 /lf	1,015
145	Floor Minor Preparation	874.00 sf	1.25 /sf	1,093
145	Platform Wood and Plank Flooring Polish and Clean Per Manufactures Requirements	874.00 sf	0.50 /sf	437
145	Platform Wood and Plank Flooring Protection With Red-Rosin Paper (Part 3)	874.00 sf	0.75 /sf	656
145	Platform Wood and Plank Flooring Owner Extra Materials at 5% (Package,Deliver)	44.00 sf	22.00 /sf	968
	Flooring- Wood		0.931/sf	155,841
	167,352.00 sf			
09-6500.100	Flooring- Resilient			
2	Luxury Vinyl Tile			
2	Luxury Vinyl Tile	473.00 sf	6.50 /sf	3,075
2	Luxury Vinyl Tile - Flooring Flooring Minor Preparation	473.00 sf	1.25 /sf	591
2	Luxury Vinyl Tile - Intial Cleaning Per Manu. Require	473.00 sf	0.50 /sf	237
2	Luxury Vinyl Tile - Protection per Manu. Require	473.00 sf	0.75 /sf	355
2	Owner Exta Materials At 5% (Package,Deliver)	24.00 sf	6.50 /sf	156
2	Resilient Athletic Flooring In Place Mock-up	25.00 sf	6.50 /sf	163
2	Resilient Athletic Flooring			
2	Resilient Athletic Flooring	874.00 sf	14.00 /sf	12,236
2	Resilient Athletic Flooring Minor Preparation	874.00 sf	1.25 /sf	1,093
2	Resilient Athletic Flooring Initial Cleaning Per Manu.Require	874.00 sf	0.50 /sf	437

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
09-6500.100	<i>Flooring- Resilient</i>			
2	Resilient Athletic Flooring Protection Per Manu.Require. Flooring	874.00 sf	0.75 /sf	656
2	Owner Exta Materials At 5% (Package,Deliver)	44.00 sf	14.00 /sf	616
2	Resilient Athletic Flooring In Place Mock-up	25.00 sf	14.00 /sf	350
2	SDT - 1 Flooting			
2	SDT -1 Flooring	546.00 sf	11.00 /sf	6,006
2	SDT -1 Flooring Flooring Minor Preparation	546.00 sf	1.25 /sf	683
2	SDT -1 Flooring Flooring Initial Cleaning Per Manu.Require	546.00 sf	0.50 /sf	273
2	SDT -1 Flooring Flooring Protection Per Manu.Require. Flooring	546.00 sf	0.75 /sf	410
2	Owner Exta Materials At 5% (Package,Deliver)	28.00 sf	110.00 /sf	3,080
2	SDT - 1 Flooring 25SqFt Mock-Up	25.00 sf	11.00 /sf	275
2	Linoleum Flooring			
2	Linoleum - 1	89,192.00 sf	6.85 /sf	610,965
2	Linoleum - 2	3,628.00 sf	6.85 /sf	24,852
2	Linoleum - 3	4,628.00 sf	6.85 /sf	31,702
2	Linoleum - 4	5,869.00 sf	6.85 /sf	40,203
2	Linoleum - 5	4,296.00 sf	6.85 /sf	29,428
2	Linoleum Floor Minor Preparation	107,548.00 sf	0.75 /sf	80,661
2	Linoleum Flooring Initial Cleaning Per Manu.Require	107,548.00 sf	0.30 /sf	32,264
2	Linoleum Flooring Protection Per Manu.Require. Flooring	107,548.00 sf	0.35 /sf	37,642
2	Linoleum Mock-up Minimum 25 sf In Place	25.00 sf	6.85 /sf	171
2	Rubber Flooring			
2	Rubber Flooring	2,037.00 sf	14.00 /sf	28,518
2	Rubber Flooring Minor Preparation	2,037.00 sf	1.25 /sf	2,546
2	Rubber Flooring Initial Cleaning Per Manu.Require	2,037.00 sf	0.50 /sf	1,019
2	Rubber Flooring Protection Per Manu.Require. Flooring	2,037.00 sf	0.75 /sf	1,528
2	Owner Exta Materials At 5% (Package,Deliver)	1,167.00 sf	14.00 /sf	16,338
2	Rubber Flooring In Place Mock-up	25.00 sf	14.00 /sf	350
	<i>Flooring- Resilient</i>		<u>5.789/sf</u>	<u>968,875</u>
	167,352.00 sf			
09-6500.110	<i>Flooring Base</i>			
2	Resilient Base - 1	17,601.00 lf	3.35 /lf	58,963
2	Resilient Base -1 - Owner Exta Materials at 5% (Package,Deliver)	880.00 lf	2.25 /lf	1,980
2	Resilient Base - 2	411.00 lf	3.35 /lf	1,377
2	Resilient Base - 2 Owner Exta Materials at 5% (Package,Deliver)	21.00 lf	2.25 /lf	47
	<i>Flooring Base</i>		<u>0.373/sf</u>	<u>62,367</u>
	167,352.00 sf			
09-6700.110	<i>Epoxy Flooring</i>			
10	Epoxy Applied Flooring	6,949.00 sf	14.50 /sf	100,761
10	Epoxy Applied Flooring Integral Base	685.00 sf	16.00 /sf	10,960
10	Epoxy Flooring Minor Preparation	6,949.00 sf	0.75 /sf	5,212
10	Epoxy Flooring Initial Cleaning Per Manu.Require	6,949.00 sf	0.30 /sf	2,085
10	Epoxy Flooring Protection Per Manu.Require. Flooring	6,949.00 sf	0.25 /sf	1,737
10	Owner Exta Materials At 5% (Package,Deliver)	382.00 sf	14.50 /sf	5,539
10	Epoxy Flooring In Place Mock-up	25.00 sf	14.50 /sf	363

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Epoxy Flooring</i>		0.757/sf	126,656
	167,352.00 sf			
09-6800.100	<i>Flooring - Carpet</i>			
f 10	Carpet Tile	13,075.00 sf	5.70 /sf	74,528
f 10	Floor Minor Preparation	13,075.00 sf	0.75 /sf	9,806
f 10	Floor Protection / Cover with not less than 6-mil thick polyethylene covering with taped joints	13,075.00 sf	0.35 /sf	4,576
f 10	Clean and Vacuum Carpet Surfaces Upon Completion of The Installation.	13,075.00 sf	0.18 /sf	2,354
f 10	Carpet Tile Mock-up Minimum 25 sf In Place	654.00 sf	5.70 /sf	3,728
f 10	Carpet Tile Owner Extra Materials at 5% (Package,Deliver)	25.00 sf	5.70 /sf	143
	<i>Flooring - Carpet</i>		0.568/sf	95,134
	167,352.00 sf			
09-9101.100	<i>Painting - Sealing Floors</i>			
120	Paint - Seal Concrete Slabs	5,800.00 sf	1.50 /sf	8,700
120	Floor Minor Preparation	5,800.00 sf	0.50 /sf	2,900
120	Floor Protection (Part 3)	5,800.00 sf	0.75 /sf	4,350
	<i>Painting - Sealing Floors</i>		0.095/sf	15,950
	167,352.00 sf			
	<i>FINISHES</i>		8.941/sf	1,496,250
	167,352.00 sf			
	<i>C3020 Floor Finishes</i>		8.941/sf	1,496,250
	167,352.00 sf			
C3030	<i>Ceiling Finishes</i>			
06-4100.000	<i>ARCHITECTURAL WOOD CASEWORK</i>			
06-4210.120	<i>Wood Veneer Panels</i>			
c 10	WD-1 Ceilings	6,256.00 sf	40.00 /sf	250,240
	<i>Wood Veneer Panels</i>		1.495/sf	250,240
	167,352.00 sf			
	<i>ARCHITECTURAL WOOD CASEWORK</i>		1.495/sf	250,240
	167,352.00 sf			
09-0000.000	<i>FINISHES</i>			
09-2000.014	<i>Drywall Ceilings</i>			
2499	GWB Ceilings And Flat Soffits	10,903.00 sf	15.00 /sf	163,545
2499	GWB Vertical Soffits	5,331.00 sf	15.00 /sf	79,965
	<i>Drywall Ceilings</i>		1.455/sf	243,510
	167,352.00 sf			



Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
09-5000.110	Ceilings - ACT			
2	ACP - 1	85,115.00 sf	5.00 /sf	425,575
2	ACP - 1A	33,229.00 sf	5.25 /sf	174,452
2	ACP - 1A Black Ceiling Tile Green Room	200.00 sf	5.25 /sf	1,050
2	ACP - 2A	332.00 sf	5.25 /sf	1,743
2	ACP - 4	2,656.00 sf	6.50 /sf	17,264
2	ACP - 6 Serpentina Waves / Cafe Curved	2,578.00 sf	60.00 /sf	154,680
2	Curved Metal Soffit At Platform	245.00 sf	70.00 /sf	17,150
	Ceilings - ACT		4.732/sf	791,914
	167,352.00 sf			
09-9123.200	Painting- Interior			
20	Paint GWB Ceilings/Soffits	16,234.00 sf	1.50 /sf	24,351
20	Paint Exposed Ceilings	10,662.00 sf	3.00 /sf	31,986
	Painting- Interior		0.337/sf	56,337
	167,352.00 sf			
	FINISHES		6.524/sf	1,091,761
	167,352.00 sf			
	C3030 Ceiling Finishes		8.019/sf	1,342,001
	167,352.00 sf			
	C30 INTERIOR FINISHES		22.694/sf	3,797,895
	167,352.00 sf			
	<b>C INTERIORS</b>		<b>68.637/sf</b>	<b>11,486,482</b>
	167,352.00 sf			
<b>D</b>	<b>SERVICES</b>			
<b>D10</b>	<b>CONVEYING</b>			
D1010	Vertical Conveying Systems			
03-0000.000	CONCRETE			
03-6110.100	Hand Grout Equip			
500	Grout Elevator Sill Angles	3.00 ea	250.00 /ea	750
	Hand Grout Equip		0.004/sf	750
	167,352.00 sf			
	CONCRETE		0.004/sf	750
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
05-0000.000	METALS			
05-5113.100	Stairs & Ladders			
102	Elevator Pit Ladder	1.00 ea	2,800.00 /ea	2,800
	Stairs & Ladders		0.017/sf	2,800
	167,352.00 sf			
05-5820.125	Misc. Steel			
22	Sill Angles	3.00 ea	583.333 /ea	1,750
22	Sump Pit Frame Grate	1.00 ea	950.00 /ea	950
22	Hoist Beam	1.00 ea	1,800.00 /ea	1,800
	Misc. Steel		0.027/sf	4,500
	167,352.00 sf			
	METALS		0.044/sf	7,300
	167,352.00 sf			
09-0000.000	FINISHES			
09-6500.100	Flooring- Resilient			
2	ELEVATOR RUBBER SHEET FLOORING	0.00 LOC		
2	RFL Rubber Sheet Flooring At Elevator	55.00 sf	18.00 /sf	990
2	RFL Rubber Sheet Flooring Minor Preparation At Elevator	55.00 sf	0.75 /sf	41
2	RFL Rubber Sheet Flooring Initial Cleaning Per Manu.Require At Elevator	55.00 sf	0.55 /sf	30
2	RFL Rubber Sheet Flooring Protection Per Manu.Require. At Elevator	55.00 sf	0.75 /sf	41
	Flooring- Resilient		0.007/sf	1,103
	167,352.00 sf			
	FINISHES		0.007/sf	1,103
	167,352.00 sf			
14-0000.000	CONVEYING SYSTEMS			
14-2000.100	Elevator Hydraulic			
2	Passenger Elevator(s) Holess Hydraulic, 3500 lbs, 100 fpm [Canton Elevator, Incorporated:]	3.00 stp	50,000.00 /stp	150,000
	Elevator Hydraulic		0.896/sf	150,000
	167,352.00 sf			
	CONVEYING SYSTEMS		0.896/sf	150,000
	167,352.00 sf			
	D1010 Vertical Conveying Systems		0.951/sf	159,153
	167,352.00 sf			

**60% Construction Development Budget Estimate Uniformat** 2019\_06\_07 Reconciled

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<b>D10 CONVEYING</b>		<b>0.951/sf</b>	<b>159,153</b>
	167,352.00 sf			
<b>D20</b>	<b>PLUMBING</b>			
D2010	Plumbing Fixtures			
22-0000.000	PLUMBING			
22-1000.000	Plumbing			
10	Fixtures	0.00	ITEM	
10	P-1, 1A, 1B (Water Closets)	87.00	ea	1,100.00 /ea 95,700
10	P-1A (Water Closet ADA)	0.00	Abov e	
10	P-1B (Small Lavatory)	0.00	Abov e	
10	P-2 (Lavatory)	17.00	ea	1,080.00 /ea 18,360
10	P-2A (Lavatory ADA)	26.00	ea	1,080.00 /ea 28,080
10	P-2B (Small Lavatory)	14.00	ea	980.00 /ea 13,720
10	P-3 (Urinal)	12.00	ea	700.00 /ea 8,400
10	P-3A (Urinal)	0.00	ea	
10	P-4 (Classroom Sink)	29.00	ea	1,250.00 /ea 36,250
10	P-4A (Hall Sink)	2.00	ea	1,250.00 /ea 2,500
10	P-4B (Dining Sink)	1.00	ea	1,250.00 /ea 1,250
10	P-4C (Sink)	14.00	ea	1,200.00 /ea 16,800
10	P-5 (Drinking Fountain)	13.00	ea	1,250.00 /ea 16,250
10	P-6 (Janitor Sink)	5.00	ea	1,200.00 /ea 6,000
10	P-8 (Shower)	1.00	ea	3,000.00 /ea 3,000
10	FD-1	13.00	ea	750.00 /ea 9,750
10	RD-1	32.00	ea	850.00 /ea 27,200
10	Rd-2	14.00	ea	850.00 /ea 11,900
10	RD-3	4.00	ea	850.00 /ea 3,400
10	OD-1	16.00	ea	850.00 /ea 13,600
10	OD-2	16.00	ea	850.00 /ea 13,600
10	OD-3	2.00	ea	850.00 /ea 1,700
10	HB	11.00	ea	550.00 /ea 6,050
10	Eco-Floor Cleanout	0.00	ea	
10	Storm	8.00	ea	800.00 /ea 6,400
10	Sanitary	5.00	ea	800.00 /ea 4,000
10	Electronic flush valves (WC's & Lav's)	162.00	ea	450.00 /ea 72,900
10	Kitchen Connections:	0.00	ITEM	
10	Water	30.00	ea	200.00 /ea 6,000
10	Waste	24.00	ea	250.00 /ea 6,000
10	Gas	9.00	ea	350.00 /ea 3,150
10	Equipment	0.00	ITEM	
10	DWH-1	1.00	ea	28,624.00 /ea 28,624
10	DWH-2	1.00	ea	28,624.00 /ea 28,624
10	XT-1	1.00	ea	480.00 /ea 480
10	XT-2	1.00	ea	480.00 /ea 480
10	RCP-1	1.00	ea	1,600.00 /ea 1,600
10	GI-1	1.00	ea	19,872.00 /ea 19,872
10	SI-2	2.00	ea	960.00 /ea 1,920
10	6" Back Flow Preventer	1.00	ea	4,816.00 /ea 4,816
10	Cold Water Meter	1.00	ea	3,500.00 /ea 3,500
10	Thermostatic Mixing Valve	1.00	ea	1,250.00 /ea 1,250
10	GAS SYSTEM	0.00	ITEM	
10	Gas Meter 6"	1.00	ea	3,500.00 /ea 3,500
10	GAS PIPING			
10	6" Under slab	25.00	lf	150.00 /lf 3,750
10	4"	173.00	lf	135.00 /lf 23,355
10	3"	410.00	lf	120.00 /lf 49,200

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
22-1000.000	Plumbing			
10	2-1/2"	135.00 lf	108.00 /lf	14,580
10	2"	316.00 lf	100.00 /lf	31,600
10	1-1/4"	20.00 lf	85.00 /lf	1,700
10	1"	98.00 lf	80.00 /lf	7,840
	Plumbing		3.936/sf	658,651
	167,352.00 sf			
	PLUMBING		3.936/sf	658,651
	167,352.00 sf			
	D2010 Plumbing Fixtures		3.936/sf	658,651
	167,352.00 sf			
D2020	Domestic Water Distribution			
22-0000.000	PLUMBING			
22-1000.000	Plumbing			
10	Domestic Water Distribution	0.00 ITEM		
10	Exhaust and Combustion Intake Piping, 6"	50.00 lf	300.00 /lf	15,000
10	Incoming 6" water from 10' outside the building incl. sleeves Type K & L	2.00 ls	5,000.00 /ls	10,000
10	Domestic water	0.00 ITEM		
10	4" Domestic Water	349.00 lf	124.00 /lf	43,276
10	3" Domestic Water	39.00 lf	81.00 /lf	3,159
10	2 1/2" Domestic Water	544.00 lf	67.00 /lf	36,448
10	2" Domestic Water	476.00 lf	47.00 /lf	22,372
10	1 1/2" Domestic Water	106.00 lf	36.00 /lf	3,816
10	1 1/4" Domestic Water	130.00 lf	31.00 /lf	4,030
10	1" Domestic Water	893.00 lf	25.00 /lf	22,325
10	3/4" Domestic Water	792.00 lf	20.00 /lf	15,840
10	1/2" Domestic Water	672.00 lf	18.00 /lf	12,096
10	- branch connections to fixtures	1,458.00 lf	22.00 /lf	32,076
10	Insulation on Piping	5,460.00 lf	8.00 /lf	43,680
10	Final connections to fixtures	339.00 ea	200.00 /ea	67,800
	Plumbing		1.983/sf	331,918
	167,352.00 sf			
	PLUMBING		1.983/sf	331,918
	167,352.00 sf			
	D2020 Domestic Water Distribution		1.983/sf	331,918
	167,352.00 sf			
D2030	Sanitary Waste			
22-0000.000	PLUMBING			
22-1000.000	Plumbing			
10	Sanitary Waste & Vent (Hubless Cast Iron)	0.00 ITEM		
10	5" Waste	421.00 lf	90.00 /lf	37,890
10	4" Waste	1,026.00 lf	83.00 /lf	85,158

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
22-1000.000	Plumbing			
10	Above Slab	0.00 ITEM		
10	4" Waste	487.00 lf	67.00 /lf	32,629
10	2" Waste	234.00 lf	33.00 /lf	7,722
10	- branch distribution piping & drop connection to fixtures (1-1/2")	1,912.00 lf	26.00 /lf	49,712
10	VTR; Vent through roof - 4"	3.00 ea	750.00 /ea	2,250
10	Final connections to fixtures	239.00 ea	200.00 /ea	47,800
	Plumbing		1.572/sf	263,161
	167,352.00 sf			
	PLUMBING		1.572/sf	263,161
	167,352.00 sf			
	D2030 Sanitary Waste		1.572/sf	263,161
	167,352.00 sf			
D2040	Rain Water Drainage			
22-0000.000	PLUMBING			
22-1000.000	Plumbing			
10	Under slab (trench/backfill excluded)	0.00 ITEM		
10	12" Storm	31.00 lf	150.00 /lf	4,650
10	10" Storm	257.00 lf	130.00 /lf	33,410
10	8" Storm	367.00 lf	120.00 /lf	44,040
10	6" Storm	158.00 lf	107.00 /lf	16,906
10	5" Storm	222.00 lf	90.00 /lf	19,980
10	4" Storm	531.00 lf	83.00 /lf	44,073
10	Elevator sump pump	1.00 ea	3,500.00 /ea	3,500
10	Above Slab	0.00 ITEM		
10	8" Storm	72.00 lf	140.00 /lf	10,080
10	6" Storm	806.00 lf	107.00 /lf	86,242
10	5" Storm	1,388.00 lf	80.00 /lf	111,040
10	4" Storm	1,420.00 lf	67.00 /lf	95,140
	Plumbing		2.803/sf	469,061
	167,352.00 sf			
	PLUMBING		2.803/sf	469,061
	167,352.00 sf			
	D2040 Rain Water Drainage		2.803/sf	469,061
	167,352.00 sf			
D2090	Other Plumbing Systems			
22-0000.000	PLUMBING			
22-1000.000	Plumbing			
2	Plumbing systems	167,352.00 sf	2.00 /sf	334,704
10	Water Treatment / testing/ Sign off /shutdowns	1.00 ls	12,500.00 /ls	12,500
10	Sub-trade on costs	1.00 ls	173,693.00 /ls	173,693

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Plumbing</i>		3.113/sf	520,897
	167,352.00 sf			
	<i>PLUMBING</i>		3.113/sf	520,897
	167,352.00 sf			
	<i>D2090 Other Plumbing Systems</i>		3.113/sf	520,897
	167,352.00 sf			
	<b>D20 PLUMBING</b>		<b>13.407/sf</b>	<b>2,243,688</b>
	<b>167,352.00 sf</b>			
<b>D30</b>	<b>HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)</b>			
<i>D3020</i>	<i>Heat Generating Systems</i>			
23-0000.000	<i>HVAC</i>			
23-0100.110	<i>HVAC</i>			
2	Heating equipment			
2	B-1,2 & 3, Boilers, 2500 MBH each, Lochinvar (FBN-2501)	7,500.00 mbh	25.00 /mbh	187,500
2	P-1 & 2, HHW Pump, 500 GPM	1,000.00 ea	25.00 /ea	25,000
2	Boiler intake flue - allow	27.00 lf	250.00 /lf	6,750
2	Boiler exhaust breeching - allow	27.00 lf	500.00 /lf	13,500
2	CF-1, Chemical Shot Feeder serving HHW, 5.0 GAL	1.00 ea	15,000.00 /ea	15,000
2	AS-1, Air Separator, 250 GPM, dosing	1.00 ea	2,000.00 /ea	2,000
2	ET-1, Expansion Tank, 80L Capacity	1.00 ea	3,000.00 /ea	3,000
	<i>HVAC</i>		1.51 /sf	252,750
	167,352.00 sf			
	<i>HVAC</i>		1.51 /sf	252,750
	167,352.00 sf			
	<i>D3020 Heat Generating Systems</i>		1.51 /sf	252,750
	167,352.00 sf			
<i>D3030</i>	<i>Cooling Generating Systems</i>			
23-0000.000	<i>HVAC</i>			
23-0100.110	<i>HVAC</i>			
2	Condenser Units	0.00 ITEM		
2	Condenser units for VRF units - allow	20.00 ea	2,800.00 /ea	56,000
2	VRFc-1 & 2 VRF Outdoor Units, 96 MBH	5.00 ton	2,000.00 /ton	10,000
2	Condenser units for DX cooling	5.00 ea	2,000.00 /ea	10,000
	<i>HVAC</i>		0.454/sf	76,000
	167,352.00 sf			

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	HVAC		0.454/sf	76,000
	167,352.00 sf			
	HVAC		0.454/sf	76,000
	167,352.00 sf			
	D3030 Cooling Generating Systems		0.454/sf	76,000
	167,352.00 sf			
D3040	Distribution Systems			
23-0000.000	HVAC			
23-0100.110	HVAC			
2	Air distribution			
2	RTU - 1	8,750.00 cfm	15.00 /cfm	131,250
2	RTU - 2	13,380.00 cfm	15.00 /cfm	200,700
2	RTU - 3	3,740.00 cfm	15.00 /cfm	56,100
2	RTU - 4 Serving North CR - Part A	11,090.00 cfm	15.00 /cfm	166,350
2	RTU-5 Serving South CR Part B	11,410.00 cfm	15.00 /cfm	171,150
2	RTU-6 Serving Administration	1,740.00 cfm	15.00 /cfm	26,100
2	RTU - 7 Serving Art & Music	12,430.00 cfm	15.00 /cfm	186,450
2	RTU-8 Serving Gym	7,280.00 cfm	15.00 /cfm	109,200
2	RTU - 9 Serving Cafe & Stage	6,300.00 cfm	15.00 /cfm	94,500
2	HV-1 w/1 Supply & 1 Return Fan, Natural gas heating coil	1,960.00 cfm	10.00 /cfm	19,600
2	MAU-1	4,500.00 cfm	6.80 /cfm	30,600
2	Sound Attenuators	22.00 ea	5,500.00 /ea	121,000
2	Extract fans	0.00 ITEM		
2	KEF-1	5,520.00 cfm	3.00 /cfm	16,560
2	EF-1	825.00 cfm	1.25 /cfm	1,031
2	EF-2	1,125.00 cfm	1.25 /cfm	1,406
2	EF-3	3,150.00 cfm	1.25 /cfm	3,938
2	EF-4 - Allow	1.00 ea	1,500.00 /ea	1,500
2	EF-5	2,400.00 cfm	1.25 /cfm	3,000
2	EF-6, 7, 8, 9, 10, 11 - Allow	6.00 ea	1,500.00 /ea	9,000
2	Grilles	4.00 ea	250.00 /ea	1,000
2	Supply Grilles 10 x 10	17.00 ea	275.00 /ea	4,675
	HVAC		8.097/sf	1,355,110
	167,352.00 sf			
	HVAC		8.097/sf	1,355,110
	167,352.00 sf			
	D3040 Distribution Systems		8.097/sf	1,355,110
	167,352.00 sf			
D3090	Other HVAC Systems And Equipment			
23-0000.000	HVAC			
23-0100.110	HVAC			
2	RTUs	18.00 ea	8,500.00 /ea	153,000

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
23-0100.110	HVAC			
2	MAU	1.00 ea	8,500.00 /ea	8,500
2	HV	2.00 ea	6,500.00 /ea	13,000
2	EF	12.00 ea	2,500.00 /ea	30,000
2	Pumps	3.00 ea	4,500.00 /ea	13,500
2	Energy Metering Allowance	1.00 ea	15,000.00 /ea	15,000
2	Radiant ceiling panels - quantity allowance	3,482.00 lf	125.00 /lf	435,250
2	VRFe indoor Units, PLFY	0.00 Above		
2	CP-1 Condensate pump for VRF Units --- INC ABOVE ---	0.00 Above		
2	Branch Circuit Controllers for VRFs above			
2	BC-1 serving VRFe 1-6	1.00 ea	5,000.00 /ea	5,000
2	BC-1 serving VRFe 7-12	1.00 ea	5,000.00 /ea	5,000
2	BC-1 serving VRFe 13-19	1.00 ea	5,000.00 /ea	5,000
2	Split AC unit	0.00 ITEM		
2	DCUe-1-8 Ductless Cooling Units, 320 CFM, Mitsubishi (PKA) served by DCUc-1, 2, 3, 7 & 8 Condenser units, Mitsubishi (PUY)	8.00 ea	6,000.00 /ea	48,000
2	DCUe-9 & 10 Ductless Cooling Units, 635 CFM, Mitsubishi (PKA) served by DCUc-9 & 10 Condenser units, Mitsubishi (Puz)	2.00 ea	12,000.00 /ea	24,000
2	Unit Heaters	0.00 ITEM		
2	UH, Unit Heaters	25.00 ea	700.00 /ea	17,500
2	EUH-1, Electric unit heaters, 5.0 KW, 17.1 MBH	1.00 ea	1,100.00 /ea	1,100
2	Air terminals	0.00 ITEM		
2	VAV units	141.00 ea	1,200.00 /ea	169,200
2	Pipe, Valves & Connections			
2	Heating piping			
2	6"	60.00 lf	80.00 /lf	4,800
2	4"	90.00 lf	73.00 /lf	6,570
2	3"	98.00 lf	58.00 /lf	5,684
2	2-1/2"	1,695.00 lf	49.00 /lf	83,055
2	2"	650.00 lf	34.00 /lf	22,100
2	1-1/2"	900.00 lf	27.00 /lf	24,300
2	1"	1,791.00 lf	25.00 /lf	44,775
2	3/4"	8,058.00 lf	20.00 /lf	161,160
2	Branch piping to unit heaters	404.00 lf	19.00 /lf	7,676
2	Branch piping to VAVs	2,218.00 lf	34.00 /lf	75,412
2	Branch Connection to Terminals	4,370.00 lf	34.00 /lf	148,580
2	Refrigerant Piping - VRF	0.00 ITEM		
2	Refrigerant Piping, RL/RS (from VRFe to Branch Selectors)	2,067.00 lf	30.00 /lf	62,010
2	Refrigerant Piping, RL/RS (from VRFc to Branch Selectors)	439.00 lf	30.00 /lf	13,170
2	Branch connections to terminals	230.00 lf	30.00 /lf	6,900
2	Secondary valve sets for VRF heat pumps	69.00 ea	600.00 /ea	41,400
2	Dx piping for IT cooling	0.00 ITEM		
2	Dx piping	3,000.00 lf	27.00 /lf	81,000
2	Secondary valve sets; including isolation, commissioning & non return valves	10.00 ea	600.00 /ea	6,000
2	Secondary control valves	10.00 ea	300.00 /ea	3,000
2	DX condensate	300.00 lf	27.00 /lf	8,100
2	Sheetmetal & Accessories	0.00 ITEM		
2	Ductwork - Galvanized	129,116.00 lbs	11.00 /lbs	1,420,276
2	Allowance for Stainless Steel Kitchen exhaust ductwork	4,050.00 lbs	20.00 /lbs	81,000
2	Accessories	0.00 ITEM		
2	Fire dampers for main supply extract risers (Assume)	2.00 ea	750.00 /ea	1,500
2	Volume Dampers, control dampers & access panels	1.00 ls	5,400.00 /ls	5,400
2	CVD	5.00 ea	800.00 /ea	4,000
2	Final Connections			



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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
23-0100.110	HVAC				
2	Dedicated plenum connections for VAVs, S/R Diffusers	452.00 ea	200.00 /ea		90,400
2	Displacement Diffusers	0.00 ITEM			
2	DD-1	143.00 ea	700.00 /ea		100,100
2	DD-7	28.00 ea	700.00 /ea		19,600
2	DD-8	7.00 ea	700.00 /ea		4,900
2	DD-X	28.00 ea	700.00 /ea		19,600
2	S-A Supply Air Diffusers	0.00 ITEM			
2	12 x 12	2.00 ea	200.00 /ea		400
2	9 x 9	4.00 ea	180.00 /ea		720
2	6 x 6	5.00 ea	170.00 /ea		850
2	R-1, Registers	0.00 ITEM			
2	24 x 24	1.00 ea	300.00 /ea		300
2	18 x 18	2.00 ea	250.00 /ea		500
2	16 x 16	56.00 ea	240.00 /ea		13,440
2	14 x 14	23.00 ea	220.00 /ea		5,060
2	10 x 10	8.00 ea	190.00 /ea		1,520
2	8 x 8	38.00 ea	175.00 /ea		6,650
2	R-2, Registers	0.00 ITEM			
2	36 x 12	8.00 ea	350.00 /ea		2,800
2	24 x 12	8.00 ea	320.00 /ea		2,560
2	22 x 10	4.00 ea	300.00 /ea		1,200
2	E-1 Exhaust Grilles	0.00 ITEM			
2	6 x 6	2.00 ea	225.00 /ea		450
2	8 x 8	64.00 ea	250.00 /ea		16,000
2	L-1 Intake Louver 36 x 36 (EHH-601)	1.00 ea	1,350.00 /ea		1,350
2	Insulation	0.00 ITEM			
2	Piping insulation	23,139.00 lf	8.00 /lf		185,112
2	Ductwork insulation	80,697.00 sf	4.00 /sf		322,788
2	Acoustic lining for duct systems NA	0.00 NA			
2	Fire wrap on kitchen exhaust ductwork	3,115.00 sf	18.00 /sf		56,070
	HVAC		24.579/sf		4,113,288
	167,352.00 sf				
23-0900.100	Controls				
20	Building Management Systems	0.00 ITEM			
20	RTU	135.00 pts	900.00 /pts		121,500
20	MAU/HV	30.00 pts	900.00 /pts		27,000
20	Extract Fans	24.00 pts	900.00 /pts		21,600
20	Condenser units	120.00 pts	900.00 /pts		108,000
20	Pumps	6.00 pts	900.00 /pts		5,400
20	New DDC head-end	1.00 ls	35,000.00 /ls		35,000
20	Secondary BMS	0.00 ITEM			
20	VRF Heat pump units	36.00 ea	600.00 /ea		21,600
20	VAVs	560.00 ea	600.00 /ea		336,000
20	RCPs	562.00 ea	600.00 /ea		337,200
20	Testing & Commissioning	1.00 ls	108,000.00 /ls		108,000
20	Sub-Trade Temp requirements & GC's	1.00 ls	264,061.00 /ls		264,061
	Controls		8.278/sf		1,385,361
	167,352.00 sf				
	HVAC		32.857/sf		5,498,649
	167,352.00 sf				
	D3090 Other HVAC Systems And Equipment		32.857/sf		5,498,649
	167,352.00 sf				

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>D3090 Other HVAC Systems And Equipment</i>		32.857/sf	5,498,649
	167,352.00 sf			
	<b>D30 HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)</b>		<b>42.919/sf</b>	<b>7,182,509</b>
	167,352.00 sf			
<b>D40</b>	<b>FIRE PROTECTION</b>			
<i>D4040</i>	<i>Sprinklers</i>			
21-0000.000	<i>FIRE SUPPRESSION</i>			
21-1300.120	<i>Sprinkler Systems</i>			
2	MACV: Main wet alarm check valve	1.00 ea	2,500.00 /ea	2,500
2	SCV- Supervised Control valve	1.00 ea	1,858.00 /ea	1,858
2	6" Back Flow Preventer	1.00 ea	4,816.00 /ea	4,816
2	6" Control Valve	5.00 ea	7,635.20 /ea	38,176
2	4" Control Valve	6.00 ea	5,356.80 /ea	32,141
2	Riser shut off valve	3.00 ea	2,250.00 /ea	6,750
2	FDC- Fire department connection	4.00 ea	1,500.00 /ea	6,000
2	FDV - Fire department Valve 2 1/2"	15.00 ea	1,500.00 /ea	22,500
2	FDVC - Fire department valve cabinet - 18" x18" x 10" (CROKER 1710) - 2 1/2"	15.00 ea	750.00 /ea	11,250
2	Incoming fire main from utility (10' from threshold of the building)	10.00 lf	200.00 /lf	2,000
	<i>Sprinkler Systems</i>		0.765/sf	127,991
	167,352.00 sf			
	<i>FIRE SUPPRESSION</i>		0.765/sf	127,991
	167,352.00 sf			
	<i>D4040 Sprinklers</i>		0.765/sf	127,991
	167,352.00 sf			
<i>D4090</i>	<i>Other Fire Protection Systems</i>			
21-0000.000	<i>FIRE SUPPRESSION</i>			
21-1300.120	<i>Sprinkler Systems</i>			
2	Fire standpipe - Risers	0.00 ITEM		
2	- 6" w/ 2 1/2" drain	4.00 ea	3,500.00 /ea	14,000
2	- 4" drain	6.00 ea	2,500.00 /ea	15,000
2	Fire standpipe - Horizontal	0.00 ITEM		
2	6" Pipe	501.00 lf	55.00 /lf	27,555
2	Sprinkler Heads	0.00 ITEM		
2	Sprinkler heads (assumed quantity)	1,400.00 ea	85.00 /ea	119,000
2	Upright Heads (Assumed Quantity)	48.00 lf	85.00 /lf	4,080
2	Side Wall	2.00 ea	85.00 /ea	170
2	not shown (Assumed 1 sprinkler head per 100sf)	56.00 ea	85.00 /ea	4,760
2	Sprinkler Piping Distribution	0.00 ITEM		
2	4" Piping	1,998.00 lf	50.00 /lf	99,900
2	3" Piping	170.00 lf	48.00 /lf	8,160

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
21-1300.120	<i>Sprinkler Systems</i>			
2	2-1/2" Piping	115.00 lf	45.00 /lf	5,175
2	2" Piping	4,594.00 lf	40.00 /lf	183,760
2	1-1/2" Piping	969.00 lf	30.00 /lf	29,070
2	1-1/4" Piping	3,045.00 lf	22.00 /lf	66,990
2	1' Piping	6,777.00 lf	20.00 /lf	135,540
2	Branch piping for head not shown(assume 10lf/per head @ 1-1/2")	565.00 lf	22.00 /lf	12,430
2	ANSUL System	0.00	Other s	
2	Hydraulic Calculations, Hydrant Flow Tests, As-builts	1.00 ls	5,000.00 /ls	5,000
2	Sub-trade temp requirements & GC's	1.00 ls	64,396.00 /ls	64,396
	<i>Sprinkler Systems</i>		4.75 /sf	794,986
	167,352.00 sf			
	<b>FIRE SUPPRESSION</b>		4.75 /sf	794,986
	167,352.00 sf			
	<i>D4090 Other Fire Protection Systems</i>		4.75 /sf	794,986
	167,352.00 sf			
	<b>D40 FIRE PROTECTION</b>		5.515/sf	922,977
	167,352.00 sf			
<b>D50</b>	<b>ELECTRICAL</b>			
D5010	<i>Electrical Service And Distribution</i>			
26-0000.000	<i>ELECTRICAL</i>			
26-0000.100	<i>Electrical</i>			
10	Main Switchboard, 480V, 3P 4W, 100KAIC	1.00 ls	60,000.00 /ls	60,000
10	- Main breaker,3000A 65 KAIC w/ ground fault protection	0.00	Above	
10	- Ground bus	0.00	Above	
10	- Surge Protection Device	0.00	Above	
10	- Digital monitoring meter, Power Logic CM4000 Series	0.00	Above	
10	- 112.5 KVA	1.00 ea	12,500.00 /ea	12,500
10	- T-5, 45kVA	16.00 ea	4,950.00 /ea	79,200
10	- T-4, 30kVA	2.00 ea	3,300.00 /ea	6,600
10	Disconnect Switches, 100A	15.00 ea	350.00 /ea	5,250
10	Panelboards, 480V, 3P/4W, 65KAIC w/ surge protection devices	0.00	ITEM	
10	- MHP2C, 225A, 84cts	1.00 ea	4,500.00 /ea	4,500
10	- MHP1A/1B/1B2/1C2/2B/3A/3B, 225A, 42cts	7.00 ea	4,500.00 /ea	31,500
10	- LP1A/1C2/2C/3A, 100A, 42cts	4.00 ea	2,000.00 /ea	8,000
10	- LP1B/1B2/2B/3B, 100A, 30cts	4.00 ea	2,000.00 /ea	8,000
10	Panelboards, 208V, 3P/4W, 10KAIC w/ surge protection devices	0.00	ITEM	
10	- Double tub panelboards, PP1B/1B2/2B, 225A, 126cts	3.00 ea	4,500.00 /ea	13,500

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
26-0000.100	Electrical			
10	- Double tub panelboards, PP1A/3A, MP2B/3B, MP1B/1B2/1C2, KP1C2, 225A, 84cts	8.00 ea	4,500.00 /ea	36,000
10	- Double tub panelboards, PP1C/1C2, MP1A/3A, 225A, 42cts	4.00 ea	4,500.00 /ea	18,000
10	- PP3B, 225A, 126cts	1.00 ea	4,500.00 /ea	4,500
10	- PP2C & MP2C, 125A assume	2.00 ea	2,500.00 /ea	5,000
10	FB-1, Field Box Panel, 100A @ Concession Bldg Feeders	1.00 ea	2,000.00 /ea	2,000
10	3000A; 7 Sets of 4#600Kcmil in (7) 4"C plus (1) 4"C spare w/ pull line	216.00 Above		
10	600A; To ATS-OS	25.00 lf	150.00 /lf	3,750
10	225A; 4#3/0 + #6 in 2-1/2"C	85.00 lf	56.25 /lf	4,781
10	225A; 4#250kcmil+#4G in 2-1/2"C - Al Conductor	755.00 lf	56.25 /lf	42,469
10	225A; 3#1/0+2#1(N)+1#1(IG)+1#6(EG) in 3"C	50.00 lf	56.25 /lf	2,813
10	125A; 3#2+#3/0(N)+1#2(IG)+1#8(EG)	25.00 lf	31.25 /lf	781
10	125A; 3#1/0+2#1(N)+1#1(IG)+1#6(EG)in 3"C	350.00 lf	31.25 /lf	10,938
10	100A; Under ground feeder to panel FB-1 @ concessional bldg	392.00 lf	25.00 /lf	9,800
10	100A; 3#2+#8EG in 1-1/4" C	1,983.00 lf	25.00 /lf	49,575
10	100A; 4#1+#6 in 1-1/2" C	825.00 lf	25.00 /lf	20,625
10	100A; To ATS-LS	25.00 lf	25.00 /lf	625
10	100A; 3#6+#10EG in 3/4"C	105.00 lf	25.00 /lf	2,625
10	Connection/Wiring to MMU units	1.00 ls	1,000.00 /ls	1,000
10	Conduit In above ---INC ABOVE---			
10	Mechanical / Equipment power			
10	HVAC			
10	Rooftop units, RTU-1 thru 9, 100A/3P	11.00 ea	7,500.00 /ea	82,500
10	Boilers, B-1/2/3, 20A/1P	3.00 ea	7,500.00 /ea	22,500
10	Branch controller, BC-1/2/3, 20A/1P	3.00 ea	1,500.00 /ea	4,500
10	KEF-1, 5520 CFM	1.00 ea	1,500.00 /ea	1,500
10	EF-1, Roof above Vestibule 3201, 825	1.00 ea	1,500.00 /ea	1,500
10	EF-, Roof above Toilers 3247,1125	1.00 ea	1,500.00 /ea	1,500
10	EF-3, Roof above Toilets 3248, 3150	1.00 ea	1,500.00 /ea	1,500
10	EF-4, Roof above CR 3104, Unsize	1.00 ea	1,500.00 /ea	1,500
10	EF-5, roof above toilet 3123, 2400	1.00 ea	1,500.00 /ea	1,500
10	EF-6, roof above corridor 1158, unsize	1.00 ea	1,500.00 /ea	1,500
10	EF-7/8/9/10/11, unsize fans from schedule	5.00 ea	1,500.00 /ea	7,500
10	- Condensate Pump, 20A/1P	1.00 ea	1,500.00 /ea	1,500
10	- Water pump, 7.5hp each	2.00 ea	3,500.00 /ea	7,000
10	Condensors	10.00 ea	1,500.00 /ea	15,000
10	Terminal Units			
10	Split AC Units	10.00 ea	1,500.00 /ea	15,000
10	Unit Heaters, 1/10hp each	25.00 ea	1,500.00 /ea	37,500
10	Electric Unit Heaters	1.00 ea	1,500.00 /ea	1,500
10	VRF heating/cooling units	20.00 ea	1,500.00 /ea	30,000
10	VRF outdoor unit	1.00 ea	1,500.00 /ea	1,500
10	VAV boxes	140.00 ea	350.00 /ea	49,000
10	Plumbing	0.00 ITEM		
10	Main H/W heater	2.00 ea	1,500.00 /ea	3,000
10	Recirculation pump, 1/8hp each	1.00 ea	750.00 /ea	750
10	Thermal switch with piolt light ---INC ABOVE---	0.00 Above		
10	Elevator sump pump	1.00 ea	750.00 /ea	750
10	Electronic Flush Valves	162.00 ea	280.00 /ea	45,360
10	Miscellaneous	0.00 ITEM		
10	Elevator motor connection	2.00 ea	1,500.00 /ea	3,000
10	Allowance for institutional equipment	10.00 ls	575.00 /ls	5,750
10	Emergency Service & Distribution	0.00 ITEM		
10	Diesel generator 250kW/312.5kVA, 277Y/480V, 3-Phase, 4-Wire, 0.8pf	250.00 kw	350.00 /kw	87,500
10	Acoustic enclosure allowance	1.00 ea	50,000.00 /ea	50,000
10	Aux/batt ch/ crank	1.00 ea	7,500.00 /ea	7,500

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Item	Description	Takeoff Qty	Unit Cost	Total	
				Unit Cost	Amount
26-0000.100	Electrical				
10	ESL Storm switch 3042 series model #SFD4-2005-2005-480-311-S-C w/ interlocked switched & Cam-lock connectors	1.00 ea	15,000.00 /ea		15,000
10	Automatic Transfer Switches	0.00 ITEM			
10	- ATS-OS, 600A	1.00 ea	60,000.00 /ea		60,000
10	- ATS-LS, 100A	1.00 ea	10,000.00 /ea		10,000
10	Uninterrupted Power Supply, 16kW, 20kVA	2.00 ea	23,200.00 /ea		46,400
10	Interior Distribution Transformers, 480V, K-13 rated	0.00 ITEM			
10	- T-5, 45kVA	6.00 ea	4,950.00 /ea		29,700
10	Distribution Panelboards, 480V, 3P/4W, 65KAIC w/ surge protection devices	0.00 ITEM			
10	- EHP1A/1B/2B/3B, ELP1C2/2A/3B, 225A, 42cts	7.00 ea	4,500.00 /ea		31,500
10	- ELP1B, 225A, 42cts	1.00 ea	4,500.00 /ea		4,500
10	Panelboards, 208V, 3P/4W, 10KAIC w/ surge protection devices	0.00 ITEM			
10	EP1C2, 400A, 84cts	1.00 ea	8,000.00 /ea		8,000
10	EP1A, 225A, 84cts	1.00 ea	8,000.00 /ea		8,000
10	EP1B/1B2/2B/2C/3B, 225A, 168cts	5.00 ea	8,000.00 /ea		40,000
10	Double tub panelboards, TEP2A/2C, 225A/2C, 225A, 84cts	2.00 ea	4,500.00 /ea		9,000
10	Feeders (MI Cable)	0.00 ITEM			
10	600A; description unknown	222.00 lf	150.00 /lf		33,300
10	225A; 4#3/0+1#6G in 2-1/2"C	25.00 lf	56.25 /lf		1,406
10	225A; 4#3/0+#6G in 2"C	25.00 lf	56.25 /lf		1,406
10	225A; 3#4+1/0 Neutral +1#8G in 2"C	50.00 lf	56.25 /lf		2,813
10	225A; description unknown	956.00 lf	56.25 /lf		53,775
10	150A; 3#350+#4EG in 3"C	75.00 lf	52.50 /lf		3,938
10	150A; description unknown	222.00 lf	37.50 /lf		8,325
10	125A; 3#1/0+2#1(N)+1#1(IG)+1#6(EG) in 3"C	25.00 lf	31.25 /lf		781
10	100A; 4#3/0&6G in 3"C	25.00 lf	25.00 /lf		625
10	100A; 3#2+#8EG in 1-1/4"C	216.00 lf	25.00 /lf		5,400
10	100A; description unknown	72.00 lf	25.00 /lf		1,800
10	4#4+#8G in 1-1/2"C	215.00 lf	25.00 /lf		5,375
10	3#3/0 & #6G in 2"C	25.00 lf	25.00 /lf		625
10	Conduit for above ---INC ABOVE---				
10	Convenience Power	0.00 ITEM			
10	Double Duplex Receptacle	463.00 ea	550.00 /ea		254,650
10	Duplex Receptacles	742.00 ea	280.00 /ea		207,760
10	Duplex Receptacles for computer use	26.00 ea	280.00 /ea		7,280
10	Duplex Receptacles, weatherproof	20.00 ea	300.00 /ea		6,000
10	Duplex Receptacle, 20A, Unistrut grid mtd , Hubbell Model	9.00 ea	300.00 /ea		2,700
10	Duplex Receptacle, GFI	217.00 ea	300.00 /ea		65,100
10	Flush Mtd poke thru device w/ (2) duplex receptacles & (3) comm. outlets	3.00 ea	750.00 /ea		2,250
10	Flush mounted 2hr rated poke thru w/1 double duplex receptacle & 3 communication devices	1.00 ea	1,000.00 /ea		1,000
10	Special Receptacles	35.00 ea	350.00 /ea		12,250
10	Single Receptacle	1.00 ea	180.00 /ea		180
10	Three function push button switch	2.00 ea	350.00 /ea		700
10	Control Panel	15.00 ea	500.00 /ea		7,500
10	Handicap Door Activate Switches - F&I by System Supplier	8.00 lf	3,000.00 /lf		24,000
10	Uni Strut p1000 w/plain finish, to be painted	198.00 lf	60.00 /lf		11,880
10	Junction Boxes	127.00 ea	250.00 /ea		31,750
10	Convenience Power Devices for Kitchen	0.00 ITEM			
10	Duplex Receptacle 20A	8.00 ea	280.00 /ea		2,240
10	Duplex Receptacles, GFC	8.00 ea	280.00 /ea		2,240
10	Double Duplex Receptacles, 20A	2.00 ea	280.00 /ea		560
10	EPO - Emergency Power Off	3.00 ea	2,000.00 /ea		6,000
10	Junction Box	21.00 ea	250.00 /ea		5,250
10	Special Receptacle	3.00 ea	350.00 /ea		1,050

**60% Construction Development Budget Estimate Uniformat**      2019\_06\_07 Reconciled

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
26-0000.100	<i>Electrical</i>			
10	Single Receptacle	39.00 ea	180.00 /ea	7,020
	<i>Electrical</i>		11.798/sf	1,974,470
	167,352.00 sf			
	<b>ELECTRICAL</b>		11.798/sf	1,974,470
	167,352.00 sf			
	<i>D5010 Electrical Service And Distribution</i>		11.798/sf	1,974,470
	167,352.00 sf			
D5020	<i>Lighting &amp; Branch Wiring</i>			
26-0000.000	<b>ELECTRICAL</b>			
26-0000.100	<i>Electrical</i>			
10	Lighting, inclusive of conduit, fitting and wiring (allowances included for fixture material prices)	0.00 ITEM		
10	LG3: 30" Acrylic Globe Fixture, 0-10V, Dimming Capable, G Lighting	32.00 ea	350.00 /ea	11,200
10	LK24; 2'X4' Fixture With Prismatic Acrylic Lens, Mct Series	24.00 ea	300.00 /ea	7,200
10	LP4; 4' Linear Direct / Indirect Fixture With Frosted Acrylic Diffuser. 0-10V Dimming Capable, Finelite, S16 Series	115.00 ea	440.00 /ea	50,600
10	LP8; 8' Linear Direct / Indirect Fixture With Frosted Acrylic Diffuser, 0-10V Dimming Capable, Finelite, S16 Series	422.00 ea	880.00 /ea	371,360
10	LPD2; 2' Diameter Round Direct/Indirect Pendant Fixture.	41.00 ea	660.00 /ea	27,060
10	LPD3; 3' Diameter Round Direct/Indirect Pendant Fixture.	29.00 ea	990.00 /ea	28,710
10	LPD4; 4' Diameter Round Direct/Indirect Pendant Fixture.0-10V Dimming Capable	12.00 ea	1,250.00 /ea	15,000
10	LPG; Pendant Hi-Bay Fixture. 0-10V Dimming Capable, With Wire Guard, Meteor, WSSeries	5.00 ea	500.00 /ea	2,500
10	LR10; 10' X 2"W Recessed Fixture. 0-10V Dimming Capable	5.00 ea	1,000.00 /ea	5,000
10	LR2; 2' X 2"W Recessed Fixture. 0-10V Dimming Capable. Ceiling Type, Finelite, HP-2 Series	18.00 ea	200.00 /ea	3,600
10	LR24; 2' X 4' Led Flat Panel. 0-10V Dimming Capable, Oracle, Flp1 Series	61.00 ea	300.00 /ea	18,300
10	LR4; 4' X 2"W Recessed Fixture. 0-10V Dimming Capable, Finelite, Hp-2 Series	165.00 ea	300.00 /ea	49,500
10	LR4A; 4' X 2"W Recessed Fixture. 0-10V Dimming Capable	27.00 ea	300.00 /ea	8,100
10	LR6; 6' X 2"W Recessed Fixture. 0-10V Dimming Capable	57.00 ea	400.00 /ea	22,800
10	LR8; 8' X 2"W Recessed Fixture. 0-10V Dimming	42.00 ea	500.00 /ea	21,000
10	LR8A; 8' X 2"W Recessed Fixture. 0-10V Dimming	3.00 ea	500.00 /ea	1,500
10	LRD2; 2' Diameter Round Recessed Fixture. 0-10V Dimming Capable	67.00 ea	660.00 /ea	44,220
10	LRD3; 3' Diameter Round Recessed Fixture. 0-10V Dimming Capable	5.00 ea	990.00 /ea	4,950
10	LRD4; 4' Diameter Round Recessed Fixture. 0-10V Dimming Capable	2.00 ea	1,250.00 /ea	2,500

**60% Construction Development Budget Estimate Uniformat** 2019\_06\_07 Reconciled

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
26-0000.100	<i>Electrical</i>			
10	LS2; 2' Surface Mounted Fixture With Acrylic Lens. 0-10V Dimming Capable, Elite, 2-Oc1-Led Series	1.00 ea	350.00 /ea	350
10	LS4; 4' Surface Mounted Fixture With Acrylic Lens. 0-10V Dimming Capable, Elite, 4-Oc1-Led Series	39.00 ea	440.00 /ea	17,160
10	LS8; 8' Surface Mounted Fixture With Acrylic Lens. 0-10V Dimming Capable, Elite, 8-Oc1-Led Series	56.00 ea	750.00 /ea	42,000
10	LS8A; 8' Surface Mounted Fixture With Acrylic Lens. 0-10V Dimming Capable, He Williams, Llms Series	20.00 ea	750.00 /ea	15,000
10	LSV4; 4' Wet Location Fixture With Acrylic Lens. 0-10V Dimming Capable, Birchwood, Vanessa Series	10.00 ea	350.00 /ea	3,500
10	LV4; no description given	8.00 ea	350.00 /ea	2,800
10	LWS; Continuous Linear Wall Slot Fixture	542.00 lf	110.00 /lf	59,620
10	PC1; 10" Cylinder Fixture With Semi-Specular Reflector, Cree, Esa Series	12.00 ea	500.00 /ea	6,000
10	RC1; 4" Round Downlight Fixture With Semi-Specular Reflector, Maxilume, Hh4 Series	355.00 ea	300.00 /ea	106,500
10	RC2; 4" Square Downlight Fixture With Semi-Specular Reflector, Maxilume, Hh4 Series	53.00 ea	300.00 /ea	15,900
10	RCW; 4" Round Wall Wash Fixture With Semi-Specular Reflector, Maxilume, Hh4 Series	6.00 ea	300.00 /ea	1,800
10	SL4; Led Wall Pack. 0-10V Dimming Capable	13.00 ea	250.00 /ea	3,250
10	SL5; Led Wall Pack. 0-10V Dimming Capable	7.00 ea	240.00 /ea	1,680
10	Track for light TH1 & TH2	60.00 ea	150.00 /ea	9,000
10	- TH1 light on track	12.00 ea	500.00 /ea	6,000
10	- TH2 light on track	6.00 ea	500.00 /ea	3,000
10	Exit signs	65.00 ea	350.00 /ea	22,750
10	Lighting fixture for elevator, Lightoiler 6770 or Hubbell #NVB15GG w/ 150W	3.00 ea	250.00 /ea	750
10	Labor to install fixtures/ supports IN ABOVE	2,513.00	Above	
10	Wiring and switches for fixtures IN ABOVE	2,513.00	Above	
10	Daylight dimming ballasts for fixtures IN ABOVE	251.00	Above	
10	RSH:4" Round Wall Wash Fixture w/Semi-Specular Reflector. 0-10V Dimming Capable	1.00 ea	300.00 /ea	300
10	SLV4:4' In-Grate Flag Pole Lighting. 0-10V Dimming Capable Birchwood	18.00 ea	500.00 /ea	9,000
10	Lighting controls	0.00	ITEM	
10	Occupancy Sensor	284.00 ea	500.00 /ea	142,000
10	Photocell Sensor	92.00 ea	500.00 /ea	46,000
10	Emergency Stop Switch	1.00 ea	350.00 /ea	350
10	Stage DMX Lighting Control	1.00 ea	25,000.00 /ea	25,000
10	NES; 24 Port Ethernet Switch	1.00 ea	2,500.00 /ea	2,500
	<i>Electrical</i>		7.393/sf	1,237,310
	167,352.00 sf			
	<b>ELECTRICAL</b>		7.393/sf	1,237,310
	167,352.00 sf			
	<i>D5020 Lighting &amp; Branch Wiring</i>		7.393/sf	1,237,310
	167,352.00 sf			

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>D5020 Lighting &amp; Branch Wiring</i>		7.393/sf	1,237,310
	167,352.00 sf			
<i>D5031</i>				
27-0000.000	COMMUNCIATIONS			
27-5000.000	Distributed Communications & Monitoring			
100	PA System - allow	167,352.00	Allow	175,720
	Distributed Communications & Monitoring		1.05 /sf	175,720
	167,352.00 sf			
	COMMUNCIATIONS		1.05 /sf	175,720
	167,352.00 sf			
	<i>D5031</i>		1.05 /sf	175,720
	167,352.00 sf			
<i>D5037 Fire Alarm Systems</i>				
28-0000.000	ELECTRONIC SAFETY & SECURITY			
28-4000.000	Life Saftey			
100	Fire Alarm System Complete	167,352.00	sf	292,866
100	FACP - Fire Alarm Control Panel - IN ABOVE	1.00	Abov	
100	FATC - Fire Alarm Terminal Cabinet - IN ABOVE	2.00	Abov	
100	ANN - Generator Remote Annunciator - IN ABOVE	2.00	Abov	
100	Flush mounted Sigcom Wireless 16 Zone Master box - IN ABOVE	1.00	Abov	
100	Elevator Recall Control Module - IN ABOVE	7.00	Abov	
100	Monitor Module - IN ABOVE	32.00	Abov	
100	Digital Dialer for trouble & supervisory - IN ABOVE	1.00	Abov	
100	Carbon Monoxide Detector - IN ABOVE	11.00	Abov	
100	Drill Key Switch	1.00	Abov	
100	Fire Alarm Graphic Map	115.00	Abov	
100	Photoelectric smoke detector	9.00	Abov	
100	Smoke Detector for elevator	3.00	Abov	
100	Heat Detector for Elevator	1.00	Abov	
100	Speaker/Visual ADA compliant Signal	66.00	Abov	
100	Speaker/Visual ADA compliant Signal, WG	38.00	Abov	
100	Isolation Module	2.00	Abov	



Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
28-4000.000	Life Saftey			
100	Knox box	1.00	Above	
100	Manual Pull Station	27.00	Above	
100	Pressure Switch	1.00	Above	
100	Flow Switch	9.00	Above	
100	Red fire alarm beacon, WP	1.00	Above	
100	Box Support Assembly	331.00	Above	
100	EMT 3/4" w/ fittings	8,275.00	Above	
100	FA Cable	24,825.00	Above	
100	FA Device Testing	331.00	Above	
	<i>Life Saftey</i>			
	167,352.00 sf			1.75 /sf
				292,866
	<i>ELECTRONIC SAFETY &amp; SECURITY</i>			
	167,352.00 sf			1.75 /sf
				292,866
	<i>D5037 Fire Alarm Systems</i>			
	167,352.00 sf			1.75 /sf
				292,866
D5038				
28-0000.000	<i>ELECTRONIC SAFETY &amp; SECURITY</i>			
28-3000.000	<i>Electronic Detection &amp; Alarm</i>			
100	Security systems allowances			
100	Rough in (empty conduit)	167,352.00	sf	0.25 /sf
100	Access Control System, Manufacturer; Avigilon			41,838
100	Access Control Panel	1.00	ea	5,000.00 /ea
100	Panel for intrusion detection system	1.00	ea	5,000.00 /ea
100	Network Video Recorder Panel	1.00	ea	20,000.00 /ea
100	Access Panel, allow	1.00	ea	350.00 /ea
100	Card Reader, Proximity	36.00	ea	350.00 /ea
100	Door Contact	29.00	ea	350.00 /ea
100	Electrified Hinge	29.00	ea	350.00 /ea
100	PIR sensor	64.00	ea	350.00 /ea
100	Keypad	5.00	ea	350.00 /ea
100	Push Button	1.00	ea	350.00 /ea
100	Fixed Dome Camera	76.00	ea	750.00 /ea
100	Video intercom/door release station	4.00	ea	350.00 /ea
100	Alarm panic button	1.00	ea	350.00 /ea
100	CB-Call Button	71.00	ea	350.00 /ea
100	Camera 180Deg	6.00	ea	750.00 /ea
100	Camera 270Deg	11.00	ea	750.00 /ea
100	Camera 150Deg	1.00	ea	750.00 /ea
100	Wall Speaker	4.00	ea	600.00 /ea
	<i>Electronic Detection &amp; Alarm</i>			
	167,352.00 sf			1.369/sf
				229,088

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Electronic Detection &amp; Alarm</i>		1.369/sf	229,088
	167,352.00 sf			
	<i>ELECTRONIC SAFETY &amp; SECURITY</i>		1.369/sf	229,088
	167,352.00 sf			
	<i>D5038</i>		1.369/sf	229,088
	167,352.00 sf			
<i>D5039</i>				
27-0000.000	COMMUNICATIONS			
27-2000.000	Data Communications			
100	Tel / Data			
100	Wire Management (Backbone cabling)	0.00	ITEM	
100	Wire management; vertical wire manager, cabletray, conduit and sleeves	167,352.00	sf	83,676
100	1#1/0-1"C Backbone Cable	342.00	lf	6,840
100	Grounding Busbar (#6AWG @ each IDF & MDF room)	4.00	ea	12,000
100	Tel/data outlets inc. conduit drop from cable tray			
100	- WAP; Wireless access point	109.00	ea	38,150
100	- Data Outlets, 2 ports	332.00	ea	116,200
100	- Tel/data outlet, 2ports (1) voice & (1) data outlets	49.00	ea	17,150
100	- Telephone data outlet, 2ports	13.00	ea	4,550
100	- Wall phone outlet	91.00	ea	31,850
100	Data outlets, 1 port	23.00	ea	5,750
100	Cabling & jacks (Category 6A, UTP, 8 conductor copper cable)			
100	- 2 port	332.00	ea	132,800
100	- 1 port	223.00	ea	44,600
100	Backbone & Equipment - allow			
100	Server Room & IDF Rooms			
100	Main equipment rack w/ (1) Phone system rack, (1) Telecom rack, (2) Server racks, (1) Video Surveillance rack & (1) Public address rack	1.00	Other s	
100	- Vertical cable managers	3.00	Above	
100	- Horizontal cable managers	3.00	Above	
100	- Patch Panels	3.00	Above	
100	- Data switches -	3.00	Above	
100	- Power Strip	3.00	Above	
100	Telecom rack @ each IDF room	3.00	Above	
100	- Vertical cable managers	8.00	Above	
100	- Horizontal cable managers	8.00	Above	
100	- Patch Panels	8.00	Above	
100	- Data switches	8.00	Above	

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
27-2000.000	Data Communications			
100	- Power Strip	8.00	Above	
100	CATV System - allow	167,352.00	sf	83,676
100	CATV rough-in, empty raceway , Series 11 Quad Shielded Coax cable		0.50 /sf	
100	Allowance for CATV fit-out; equipment, devices, wiring & testing			
100	Speech Reinforcement system, Lightspeed Topcat System	66.00	ea	132,000
100	Digital Antenna System	167,352.00	sf	75,308
100	Network Controller	1.00	Above	
100	Remote Device	3.00	Above	
100	Bi-Directional Amplifiers (BDA)	2.00	Above	
100	Allowance for antenna	2.00	Above	
100	Wiring for DAS System	1.00	Above	
100	Digital signage system	0.00	Others	
100	Audio visual allowances			
100	Audio junction box	32.00	ea	4,800
100	AV	0.00	ITEM	
100	Rough-in allowance only (Approximate locations).	644.00	ea	64,400
100	Power for AV	644.00	ea	64,400
	Data Communications		5.486/sf	918,150
	167,352.00 sf			
	COMMUNICATIONS		5.486/sf	918,150
	167,352.00 sf			
	D5039		5.486/sf	918,150
	167,352.00 sf			
D5090	Other Electrical System			
26-0000.000	ELECTRICAL			
26-0000.050	Electrical - Other			
20	Testing & bonding	1.00	ls	74,316
20	Sub-trade temps/ gcs	1.00	ls	154,126
20	Lighting Protection/Grounding	167,352.00	sf	100,411
	Electrical - Other		1.965/sf	328,853
	167,352.00 sf			
	ELECTRICAL		1.965/sf	328,853
	167,352.00 sf			
	D5090 Other Electrical System		1.965/sf	328,853
	167,352.00 sf			

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	D5090 Other Electrical System		1.965/sf	328,853
	167,352.00 sf			
	<b>D50 ELECTRICAL</b>		<b>30.812/sf</b>	<b>5,156,457</b>
	167,352.00 sf			
	<b>D SERVICES</b>		<b>93.604/sf</b>	<b>15,664,784</b>
	167,352.00 sf			
<b>E</b>	<b>EQUIPMENT AND FURNISHINGS</b>			
<b>E10</b>	<b>EQUIPMENT</b>			
E1010	Commercial Equipment			
11-0000.000	EQUIPMENT			
11-3000.110	Residential Food Equip			
10	Appliance Allowance	1.00	Allow 30,000.00 /Allow	30,000
10	Loading Dock Equipment	1.00	Is 2,200.00 /Is	2,200
10	Kiln	1.00	ea 5,800.00 /ea	5,800
	Residential Food Equip		0.227/sf	38,000
	167,352.00 sf			
11-4000.110	Food Service			
2	Food Service Budget - Crabtree McGrath	1.00	Is 499,435.00 /Is	499,435
	Food Service		2.984/sf	499,435
	167,352.00 sf			
	<b>EQUIPMENT</b>		<b>3.211/sf</b>	<b>537,435</b>
	167,352.00 sf			
	E1010 Commercial Equipment		3.211/sf	537,435
	167,352.00 sf			
E1020	Institutional Equipment			
11-0000.000	EQUIPMENT			
11-5200.100	Projection Screens - Projectors			
10	Projection Screens	2.00	ea 6,800.00 /ea	13,600
	Projection Screens - Projectors		0.081/sf	13,600
	167,352.00 sf			
11-6050.000	Stage Curtains			
010	Stage Curtain 32'-6"4 x 13' h	1.00	ea 28,000.00 /ea	28,000

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Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	Stage Curtains		0.167/sf	28,000
	167,352.00 sf			
11-6833.110	Athletic Equipment			
10	Divider Curtain	1,596.00 sf	20.00 /sf	31,920
10	Basketball Backboards and Hoop	6.00 ea	8,200.00 /ea	49,200
10	Floor Mounted Sleeves for Posts	1.00 ls	3,500.00 /ls	3,500
10	Scoreboards 35" x 144" by IPI Bison/Shot Clocks (SC450 by IPI Bison)	1.00 ea	14,000.00 /ea	14,000
10	Gym Wall Padding 24" x 72" (PEP Supp. #4)	939.00 sf	20.00 /sf	18,780
	Athletic Equipment		0.702/sf	117,400
	167,352.00 sf			
	EQUIPMENT		0.95 /sf	159,000
	167,352.00 sf			
12-0000.000	FURNISHINGS			
12-6600.100	Stands & Bleachers			
10	Telescoping Bleachers 3 Rows Motorized	300.00 ea	190.00 /ea	57,000
	Stands & Bleachers		0.341/sf	57,000
	167,352.00 sf			
	FURNISHINGS		0.341/sf	57,000
	167,352.00 sf			
	E1020 Institutional Equipment		1.291/sf	216,000
	167,352.00 sf			
	<b>E10 EQUIPMENT</b>		<b>4.502/sf</b>	<b>753,435</b>
	<b>167,352.00 sf</b>			
<b>E20</b>	<b>FURNISHINGS</b>			
E2010	Fixed Furnishings			
12-0000.000	FURNISHINGS			
12-2113.100	Shades - Blinds			
2	SW1	12,206.00 sf	10.00 /sf	122,060
2	SW3	4,998.00 sf	7.00 /sf	34,986
	Shades - Blinds		0.938/sf	157,046
	167,352.00 sf			
12-3000.130	Casework- Misc			
30	Pre-Kindergarden Class Rooms	0.00 LOC		
30	Pre-K - Base Cabinets w/P-Lam Countertops	121.00 lf	375.00 /lf	45,375
30	Pre-K - Base Open Shelving w/P-Lam Countertops	66.00 lf	325.00 /lf	21,450

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
12-3000.130	Casework- Misc			
30	Pre-K - Upper Cabinets	71.00 lf	250.00 /lf	17,750
30	Pre-K - Wardrobe	39.00 ea	1,550.00 /ea	60,450
30	Kindergarden Class Rooms	0.00 LOC		
30	K - Base Cabinets w/P-Lam Countertops	217.00 lf	375.00 /lf	81,375
30	K - Base Open Shelving w/P-Lam Countertops	83.00 lf	325.00 /lf	26,975
30	K - Upper Cabinets	125.00 lf	250.00 /lf	31,250
30	K - Wardrobe	63.00 ea	1,550.00 /ea	97,650
30	Class Rooms	0.00 LOC		
30	ClassRoom - Base Cabinets w/P-Lam Countertops	889.00 lf	375.00 /lf	333,375
30	Class Room - Base Open Shelving w/P-Lam Countertops	784.00 lf	325.00 /lf	254,800
30	Class Room - Upper Cabinets	462.00 lf	250.00 /lf	115,500
30	Class Room - Wardrobe	115.00 ea	1,550.00 /ea	178,250
30	Specialty Rooms	0.00 LOC		
30	Specialty Room - Base Cabinets w/P-Lam Countertop	612.00 lf	375.00 /lf	229,500
30	Specialty Room - Base Open Shelving w/P-Lam Countertop	193.00 lf	325.00 /lf	62,725
30	Specialty Room - Upper Cabinets	242.00 lf	250.00 /lf	60,500
30	Specialty Room - Wardrobe	78.00 ea	1,550.00 /ea	120,900
30	Specialty Room - Wall Mounted P-lam Countertop	413.00 lf	275.00 /lf	113,575
30	Specialty Room - Wall Mounted Shelving	453.00 lf	225.00 /lf	101,925
30	Specialty Room - Instrument Storage Cabinet	9.00 ea	800.00 /ea	7,200
30	Casework	1.00 ea	100,000.000 /ea	100,000
	Casework- Misc		12.313/sf	2,060,525
	167,352.00 sf			
12-4813.100	Floor Mats			
10	Walk-Off Mats/Grilles at Vestibules	1,020.00 sf	45.00 /sf	45,900
	Floor Mats		0.274/sf	45,900
	167,352.00 sf			
	<b>FURNISHINGS</b>		13.525/sf	2,263,471
	167,352.00 sf			
	<b>E2010 Fixed Furnishings</b>		13.525/sf	2,263,471
	167,352.00 sf			
	<b>E20 FURNISHINGS</b>		13.525/sf	2,263,471
	167,352.00 sf			
	<b>E EQUIPMENT AND FURNISHINGS</b>		18.027/sf	3,016,906
	167,352.00 sf			

**F SPECIAL CONSTRUCTION AND DEMOLITION**

**F20 SELECTIVE BUILDING DEMOLITION**

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
F2010	Building Elements Demolition			
02-0000.000	EXISTING CONDITIONS & DEMO			
02-4116.100	Building Demolition			
110	Demolition of Existing Structure(s) 01 10 00-1	71,871.00 sf	7.50 /sf	539,033
	Building Demolition		3.221/sf	539,033
	167,352.00 sf			
	EXISTING CONDITIONS & DEMO		3.221/sf	539,033
	167,352.00 sf			
	F2010 Building Elements Demolition		3.221/sf	539,033
	167,352.00 sf			
F2020	Hazardous Components Abatement			
02-0000.000	EXISTING CONDITIONS & DEMO			
02-8200.110	Asbestos Removal			
30	Asbestos Removal - Allowance 00 31 00.40	1.00 Allow	1,025,442.00 /Allow	1,025,442
30	UST Tank Soils - Contaminated Soil Allow	300.00 Bid	150.00 /Bid	45,000
	Carried in Bid Per Spec Site Bid			
30	UST Tank Removal - Site Bid	1.00 Bid	18,484.00 /Bid	18,484
	Asbestos Removal		6.507/sf	1,088,926
	167,352.00 sf			
	EXISTING CONDITIONS & DEMO		6.507/sf	1,088,926
	167,352.00 sf			
	F2020 Hazardous Components Abatement		6.507/sf	1,088,926
	167,352.00 sf			
	<b>F20 SELECTIVE BUILDING DEMOLITION</b>		<b>9.728/sf</b>	<b>1,627,959</b>
	167,352.00 sf			
	<b>F SPECIAL CONSTRUCTION AND DEMOLITION</b>		<b>9.728/sf</b>	<b>1,627,959</b>
	167,352.00 sf			

**G SITEWORK**

**G10 SITE PREPARATION**

G1010 Site Clearing

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
31-0000.000	EARTHWORK			
31-1100.100	Site Preparation			
10	Sitework Preparation Bid	1.00 Bid	1,228,394.00 /Bid	1,228,394
	Site Preparation		7.34 /sf	1,228,394
	167,352.00 sf			
	EARTHWORK		7.34 /sf	1,228,394
	167,352.00 sf			
	G1010 Site Clearing		7.34 /sf	1,228,394
	167,352.00 sf			
G1070	Site Earthwork			
31-0000.000	EARTHWORK			
31-2213.110	Site Grading			
110	Sitework Earthwork Bid	1.00 Bid	833,440.00 /Bid	833,440
	Site Grading		4.98 /sf	833,440
	167,352.00 sf			
	EARTHWORK		4.98 /sf	833,440
	167,352.00 sf			
	G1070 Site Earthwork		4.98 /sf	833,440
	167,352.00 sf			
	<b>G10 SITE PREPARATION</b>		<b>12.32 /sf</b>	<b>2,061,834</b>
	<b>167,352.00 sf</b>			
<b>G20</b>	<b>SITE IMPROVEMENTS</b>			
G2030	Pedestrian Paving			
32-0000.000	EXTERIOR IMPROVEMENTS			
32-1313.100	Site Concrete			
6	4" Concrete Paving	41,185.00 sf	9.90 /sf	407,732
8	4" Concrete Base at Pavers 4500PSI	1,370.00 sf	6.50 /sf	8,905
8	Concrete Stairs	2.00 ea	8,960.00 /ea	17,920
8	Concrete Walls Near Loading Split & Radius	40.00 cy	1,200.00 /cy	48,000
8	Concrete Walls At Seating	30.00 cy	980.00 /cy	29,400
	Site Concrete		3.059/sf	511,957
	167,352.00 sf			
32-1400.100	Site Pavers			
30	Unit Pavers w/ 1" setting bed	1,370.00 sf	22.00 /sf	30,140



**60% Construction Development Budget Estimate Uniformat**      2019\_06\_07 Reconciled

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	Site Pavers		0.18 /sf	30,140
	167,352.00 sf			
32-1713.120	Paving			
110	Tactile Warning Surfacing	250.00 sf	20.00 /sf	5,000
	Paving		0.03 /sf	5,000
	167,352.00 sf			
	EXTERIOR IMPROVEMENTS		3.269/sf	547,097
	167,352.00 sf			
	G2030 Pedestrian Paving		3.269/sf	547,097
	167,352.00 sf			
G2040	Site Development			
04-0000.000	MASONRY			
04-4000.010	Masonry			
2	Stone Masonry Seat Wall 2" Granite With SS Rail Skate Deter	192.00 sf	275.00 /sf	52,800
2	Brick Masonry Entry Features	115.00 lf	500.00 /lf	57,500
2	6'-6" Brick Pier	7.00 ea	5,500.00 /ea	38,500
	Masonry		0.889/sf	148,800
	167,352.00 sf			
	MASONRY		0.889/sf	148,800
	167,352.00 sf			
05-0000.000	METALS			
05-5820.120	Misc Steel			
10	Loading Dock Rails A7.12 ( 2 Double Rails)	20.00 lf	225.00 /lf	4,500
10	Guardrail At CIP Wall Loading Area	56.00 lf	275.00 /lf	15,400
10	Site Stair Rails SS	28.00 lf	225.00 /lf	6,300
10	Bollards	20.00 Allow	1,200.00 /Allow	24,000
	Misc Steel		0.30 /sf	50,200
	167,352.00 sf			
	METALS		0.30 /sf	50,200
	167,352.00 sf			
10-7000.000	EXTERIOR SPECIALITIES			
10-7500.100	Flagpoles			
130	Flagpole	1.00 ea	14,000.00 /ea	14,000

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	Flagpoles		0.084/sf	14,000
	167,352.00 sf			
	EXTERIOR SPECIALITIES		0.084/sf	14,000
	167,352.00 sf			
12-0000.000	FURNISHINGS			
12-9300.110	Site Furnishings			
120	Backless Aluminum Players Bench (21' each)	84.00 lf	400.00 /lf	33,600
120	Bike Rack w/ Expansion Bolts	16.00 ea	1,800.00 /ea	28,800
120	Cafe Table w/ 4 Attached seats	15.00 ea	3,500.00 /ea	52,500
120	Soccer Goals	12.00 ea	1,800.00 /ea	21,600
120	Bench w/ Stainless Steel Wedge Anchor Bolts	8.00 ea	3,400.00 /ea	27,200
120	Baseball/Softball Base	8.00 ea	250.00 /ea	2,000
120	Trash Receptacle	4.00 ea	1,700.00 /ea	6,800
120	4 Row Salvaged Bleacher	4.00 ls	1,500.00 /ls	6,000
120	Pitchers Rubber	2.00 ea	250.00 /ea	500
120	Basketball Goal	1.00 ea	8,800.00 /ea	8,800
120	KOPMAN # - Playground Equipment	1.00 ea	493,000.00 /ea	493,000
	3PK2/Playground Equipment 3-5 grades			
	Site Furnishings		4.068/sf	680,800
	167,352.00 sf			
	FURNISHINGS		4.068/sf	680,800
	167,352.00 sf			
31-0000.000	EARTHWORK			
31-2316.210	Structure Excavation			
105	Sitework Improvements Earthwork Bid	1.00 Bid	1,684,347.00 /Bid	1,684,347
	Structure Excavation		10.065/sf	1,684,347
	167,352.00 sf			
	EARTHWORK		10.065/sf	1,684,347
	167,352.00 sf			
32-0000.000	EXTERIOR IMPROVEMENTS			
32-0523.130	Exterior Concrete			
110	Concrete - Set For Bollards Supplied by Others	20.00 ea	500.00 /ea	10,000
110	Loading Area Separation & Radius Walls	40.00 cy	1,200.00 /cy	48,000
	Concrete - Footings - Walls			
	Exterior Concrete		0.347/sf	58,000
	167,352.00 sf			
32-1823.110	Athletic Surfaces			
20	Rubber Safety Surfacing	14,242.00 sf	18.50 /sf	263,477
20	Coating & Lines Play Surface Acrylic Color	5,500.00 sf	4.00 /sf	22,000
	Coating System With Line Paint Min Two Appl.			
	Coats			

**60% Construction Development Budget Estimate Uniformat**      2019\_06\_07 Reconciled

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Athletic Surfaces</i>		1.706/sf	285,477
	167,352.00 sf			
32-3113.110	<i>Ornamental Metal Fence</i>			
102	6' HT. Ornamental Fence	414.00 lf	110.00 /lf	45,540
102	4' HT. Ornamental Fence	323.00 lf	90.00 /lf	29,070
102	Double Gate at Ornamental Fence 4'	2.00 ea	5,400.00 /ea	10,800
102	Single Gate at Ornamental Fence 4'	1.00 ea	2,850.00 /ea	2,850
102	Single Gate at Ornamental Fence 6'	1.00 ea	3,250.00 /ea	3,250
	<i>Ornamental Metal Fence</i>		0.547/sf	91,510
	167,352.00 sf			
32-3113.200	<i>Fence Rails</i>			
4	4' HT. Vinyl-Clad Chain Link Fence	3,573.00 lf	55.00 /lf	196,515
4	6' HT. Vinyl-Clad Chain Link Fence	1,185.00 lf	65.00 /lf	77,025
4	6' Wood Fence 'A'	1,299.00 lf	70.00 /lf	90,930
4	8' Wood Fence 'B'	170.00 lf	125.00 /lf	21,250
4	8' Wood Fence 'B' Gates	2.00 ea	1,500.00 /ea	3,000
4	Single Gate at Vinyl-Clad Chain Link Fence 4'	14.00 ea	950.00 /ea	13,300
4	Double Gate at Vinyl-Clad Chain Link Fence 4'	2.00 ea	1,800.00 /ea	3,600
4	4'HT. Plastic Chain-Link Fence Topper at Baseball Field	432.00 lf	70.00 /lf	30,240
4	Vinyl-Clad Chain Link Main Backstop	76.50 lf	250.00 /lf	19,125
4	Vinyl-Clad Chain Link Backstop	73.50 lf	250.00 /lf	18,375
4	24' HT. Nylon Netting (PER Supp. #3)	200.00 lf	165.00 /lf	33,000
4	Foul Pole	4.00 ea	2,500.00 /ea	10,000
	<i>Fence Rails</i>		3.085/sf	516,360
	167,352.00 sf			
	<i>EXTERIOR IMPROVEMENTS</i>		5.685/sf	951,347
	167,352.00 sf			
	<i>G2040 Site Development</i>		21.09 /sf	3,529,494
	167,352.00 sf			
G2050	<i>Landscaping</i>			
32-0000.000	<i>EXTERIOR IMPROVEMENTS</i>			
32-9113.120	<i>Soil Preparation</i>			
10	Supply/Screen/Test/Ammend/Spread Loam	11,800.00 Bid	30.00 /Bid	354,000
10	Plant Soil	1,400.00 Bid	55.00 /Bid	77,000
	<i>Soil Preparation</i>		2.575/sf	431,000
	167,352.00 sf			
32-9219.110	<i>Lawns &amp; Grasses</i>			
5	Lawn Restoration	1.00 ls	15,000.00 /ls	15,000
5	Grass Native Mix	98,701.00 sf	0.30 /sf	29,610
5	Skinned Infield 4"(Adjusted PER. Supp. #3)	9,165.00 sf	0.50 /sf	4,583
5	Grass Lawn Mix	287,274.00 sf	0.30 /sf	86,182
5	Grass Infield at Softball Field (PER Supp. #3)	9,149.00 sf	0.50 /sf	4,575

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	<i>Lawns &amp; Grasses</i>		<i>0.836/sf</i>	<i>139,950</i>
	<i>167,352.00 sf</i>			
32-9313.110	<i>Groundcover Plants</i>			
110	AB Compact Bluestar (Perennials, Groundcover, Vines)	68.00 ea	25.00 /ea	1,700
110	DP Hay-Scented Fern (Perennials, Groundcover, Vines)	18.00 ea	25.00 /ea	450
110	LS Native Trumpet Honeyuckle (Perennials, Groundcover, Vines)	4.00 ea	45.00 /ea	180
110	Bioretention	1.00 ea	19,600.00 /ea	19,600
	<i>Groundcover Plants</i>		<i>0.131/sf</i>	<i>21,930</i>
	<i>167,352.00 sf</i>			
32-9343.110	<i>Trees</i>			
120	JV Eastern Red Cedar (Evergreen Trees)	30.00 ea	1,200.00 /ea	36,000
120	PG White Spruce (Evergreen Trees)	71.00 ea	1,700.00 /ea	120,700
120	TG Green Giant (Evergreen Trees)	13.00 ea	1,700.00 /ea	22,100
120	AR Red Maple (Deciduous Trees)	56.00 ea	1,200.00 /ea	67,200
120	GB Maidenhair Tree (Deciduous Trees)	3.00 ea	1,100.00 /ea	3,300
120	GT Thornless Honeylocust (Deciduous Trees)	76.00 ea	1,200.00 /ea	91,200
130	AL Allegheny Serviceberry (Ornamental Trees)	8.00 ea	1,200.00 /ea	9,600
130	AP Upright Green (Ornamental Trees)	2.00 ea	1,000.00 /ea	2,000
130	HM Seven Son Flower (Ornamental Trees)	1.00 ea	1,150.00 /ea	1,150
130	HX Witch Hazel (Ornamental Trees)	1.00 ea	1,200.00 /ea	1,200
130	MD Donald Crabapple (Ornamental Trees)	20.00 ea	1,700.00 /ea	34,000
130	MS Sugar Tyme Grabapple (Ornamental Trees)	1.00 ea	1,100.00 /ea	1,100
	<i>Trees</i>		<i>2.328/sf</i>	<i>389,550</i>
	<i>167,352.00 sf</i>			
	<i>EXTERIOR IMPROVEMENTS</i>		<i>5.87 /sf</i>	<i>982,430</i>
	<i>167,352.00 sf</i>			
	<i>G2050 Landscaping</i>		<i>5.87 /sf</i>	<i>982,430</i>
	<i>167,352.00 sf</i>			
G2080	<i>Landscaping</i>			
32-0000.000	<i>EXTERIOR IMPROVEMENTS</i>			
32-9333.110	<i>Shrubs &amp; Hedges</i>			
110	AX Compact belia (Deciduous Shrubs)	68.00 ea	200.00 /ea	13,600
110	FA Forsythia (Deciduous Shrubs)	50.00 ea	200.00 /ea	10,000
110	IV Dwarf Winterberry (Deciduous Shrubs)	6.00 ea	200.00 /ea	1,200
110	IV Male Winterberry (Deciduous Shrubs)	2.00 ea	200.00 /ea	400
110	LO California Privet (Deciduous Shrubs)	78.00 ea	425.00 /ea	33,150
110	RA Gr-Low Fragrance Sumac ( Deciduous Shrubs)	162.00 ea	120.00 /ea	19,440
110	SP Compact Lilac (Deciduous Shrub)	11.00 ea	325.00 /ea	3,575
110	VT Cranberrybush (Deciduous Shrubs)	22.00 ea	325.00 /ea	7,150
110	IG Inkberry (Evergreen Shrubs)	178.00 ea	350.00 /ea	62,300
110	JB Blue Pacific Shore Juniper (Evergreen Shrubs)	402.00 ea	210.00 /ea	84,420
110	JC Green Seargent Junioer	18.00 ea	210.00 /ea	3,780

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	Shrubs & Hedges		1.428/sf	239,015
	167,352.00 sf			
	<b>EXTERIOR IMPROVEMENTS</b>		1.428/sf	239,015
	167,352.00 sf			
	G2080 Landscaping		1.688/sf	239,015
	141,600.00 sf			
	<b>G20 SITE IMPROVEMENTS</b>		<b>31.658/sf</b>	<b>5,298,035</b>
	167,352.00 sf			
<b>G30</b>	<b>SITE MECHANICAL UTILITIES</b>			
G3010	Water Supply			
33-0000.000	UTILITIES			
33-1002.101 c 6	DI Push On Pipe Sitework Bid Water DI Push On Pipe	1.00 Bid	395,750.00 /Bid 2.365/sf	395,750 395,750
	167,352.00 sf			
	UTILITIES		2.365/sf	395,750
	167,352.00 sf			
	G3010 Water Supply		2.365/sf	395,750
	167,352.00 sf			
G3020	Sanitary Sewer			
33-0000.000	UTILITIES			
33-1004.901 8	SDR 35 Pipe Sitework Bid Sanitary Sewer SDR 35 Pipe	1.00 Bid	216,305.00 /Bid 1.293/sf	216,305 216,305
	167,352.00 sf			
	UTILITIES		1.293/sf	216,305
	167,352.00 sf			
	G3020 Sanitary Sewer		1.293/sf	216,305
	167,352.00 sf			

**60% Construction Development Budget Estimate Uniformat** 2019\_06\_07 Reconciled

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	G3020 Sanitary Sewer		1.293/sf	216,305
	167,352.00 sf			
G3030	Storm Sewer			
33-0000.000	UTILITIES			
33-1002.101	DI Push On Pipe			
c 36	Sitework Bid Storm Sewer	1.00 Bid	2,576,394.00 /Bid	2,576,394
	DI Push On Pipe		15.395/sf	2,576,394
	167,352.00 sf			
	UTILITIES		15.395/sf	2,576,394
	167,352.00 sf			
	G3030 Storm Sewer		15.395/sf	2,576,394
	167,352.00 sf			
	<b>G30 SITE MECHANICAL UTILITIES</b>		<b>19.052/sf</b>	<b>3,188,449</b>
	167,352.00 sf			
<b>G40</b>	<b>SITE ELECTRICAL UTILITIES</b>			
G4010	Site Electrical Utilities			
26-0000.000	ELECTRICAL			
26-0000.100	Electrical			
10	Ductbanks and feeders - Incoming secondary feeder to MSB from utility transformer in concrete encased ductbank w/ (3) 4" Schedule 40 PVC Conduit & (1) 4" spare Schedule 40 Conduit	179.00 lf	1,014.525 /lf	181,600
10	Site Lights	1.00 ls	208,755.00 /ls	208,755
	Electrical		2.333/sf	390,355
	167,352.00 sf			
	ELECTRICAL		2.333/sf	390,355
	167,352.00 sf			
32-0000.000	EXTERIOR IMPROVEMENTS			
32-1313.100	Site Concrete			
110	Transformer Pad	63.00 sf	25.00 /sf	1,575
110	Generator Pad	126.00 sf	28.00 /sf	3,528

**60% Construction Development Budget Estimate Uniformat** 2019\_06\_07 Reconciled

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
	Site Concrete		0.03 /sf	5,103
	167,352.00 sf			
	<b>EXTERIOR IMPROVEMENTS</b>		0.03 /sf	5,103
	167,352.00 sf			
33-0000.000	<b>UTILITIES</b>			
33-0550.010	Pipe Trenching			
8	Sitework Bid Utilities	1.00 Bid	314,158.00 /Bid	314,158
	Pipe Trenching		1.877/sf	314,158
	167,352.00 sf			
	<b>UTILITIES</b>		1.877/sf	314,158
	167,352.00 sf			
	G4010 Site Electrical Utilities		4.24 /sf	709,616
	167,352.00 sf			
	<b>G40 SITE ELECTRICAL UTILITIES</b>		4.24 /sf	709,616
	167,352.00 sf			
	<b>G SITEWORK</b>		<b>67.271/sf</b>	<b>11,257,934</b>
	<b>167,352.00 sf</b>			
<b>Z</b>	<b>GENERAL</b>			
<b>Z10</b>	<b>GENERAL REQUIREMENTS</b>			
Z1050	Temporary Facilities and Controls			
01-5000.000	<b>TEMPORARY FACILITIES AND CONTROLS</b>			
01-5000.010	Temp Requirements			
200	Temporary Facilities and Controls			
200	Training video	1.00 ls	1,200.00 /ls	1,200
200	Field Engineering/Building Layout (Survey and Control)	1.00 ls	7,000.00 /ls	7,000
200	Temporary Toilets	27.00 mos	1,500.00 /mos	40,500
200	Temporary Egress Stairs	1.00 ls	8,000.00 /ls	8,000
200	Pest Control	1.00 ls	1,500.00 /ls	1,500
200	Project Signs / Wayfinding	1.00 ls	12,000.00 /ls	12,000
200	Field First Aid			
200	Safety / Temporary Protection	1.00 ls	276,318.00 /ls	276,318
200	Fire Protection - Extinguishers (4 Re-Charges)	5.00 ls	500.00 /ls	2,500
200	Site Security	1.00 ls	15,000.00 /ls	15,000
200	Police details	1.00 ls	25,000.00 /ls	25,000

**60% Construction Development Budget Estimate Uniformat** 2019\_06\_07 Reconciled

Item	Description	Takeoff Qty	Total	
			Unit Cost	Amount
01-5000.010	Temp Requirements			
200	Temporary Provisions			
200	Temporary Fire Protection	1.00 ls	30,000.00 /ls	30,000
200	Temporary Light and Power			
200	Temporary Power - Trailers	1.00 ls	25,000.00 /ls	25,000
200	Temporary Water	1.00 ls	15,000.00 /ls	15,000
200	Water Consumption	1.00 ls	5,000.00 /ls	5,000
200	Energy Consumption (fuel)	1.00 ea	102,000.00 /ea	102,000
200	Energy Consumption (power)	1.00 ea	150,000.00 /ea	150,000
200	Trash Chutes	2.00 ea	15,000.00 /ea	30,000
200	Temporary Enclosures	1.00 ls	167,352.00 /ls	167,352
200	Temporary Heat - Equipment/Distribution	6.00 mos	7,500.00 /mos	45,000
200	Temporary Heat - Equipment - Electric Hookup	1.00 ls	25,000.00 /ls	25,000
200	Winter Conditions (SITE)	1.00 winter	55,000.00 /winter	55,000
200	Winter Conditions (CONCRETE)	1.50 winter	55,000.00 /winter	82,500
200	Dumpsters	232.00 pulls	750.00 /pulls	174,000
200	Emergency Generator Fuel	1.00 ls	10,000.00 /ls	10,000
200	Noise Control	1.00 ls	10,000.00 /ls	10,000
200	Pest Control	1.00 ls	2,500.00 /ls	2,500
200	Cleaning Progress / Final			
200	Progress Cleaning	1.00 ls	495,219.65 /ls	495,220
200	Lull	26.00 mos	4,000.00 /mos	104,000
200	Final Cleaning - 1st pass at turn over	167,352.00 sf	0.70 /sf	117,146
200	Engineering & Control			
200	Layout/Staking	1.00 ls	10,000.00 /ls	10,000
200	As-Built Survey	1.00 ls	12,000.00 /ls	12,000
200	Mobilization & Building Demo			
200	Mobilize / Coordination / Survey Existing Conditions	1.00 ea	10,000.00 /ea	10,000
	Temp Requirements		12.344/sf	2,065,736
	167,352.00 sf			
	TEMPORARY FACILITIES AND CONTROLS		12.344/sf	2,065,736
	167,352.00 sf			
	Z1050 Temporary Facilities and Controls		12.344/sf	2,065,736
	167,352.00 sf			
	Z10 GENERAL REQUIREMENTS		12.344/sf	2,065,736
	167,352.00 sf			
	Z GENERAL		12.344/sf	2,065,736
	167,352.00 sf			



# THE NEW W. EDWARD BALMER SCHOOL

## WHITINSVILLE, MASSACHUSETTS



## SCHOOL BUILDING COMMITTEE MEETING

JUNE 12, 2019



Massachusetts School Building Authority  
*Funding Affordable, Sustainable, and Efficient Schools in Partnership with Local Communities*



# AGENDA

- CD Progress Report
- Follow up to VE Pricing – Won-Door
- Proprietary Items – *no new update*
- Existing Balmer Electrical Issues
- Emergency Mass Notification System
- Construction Logistics Plan Update
- 60% CD Cost Estimate Update





# CD PROGRESS REPORT

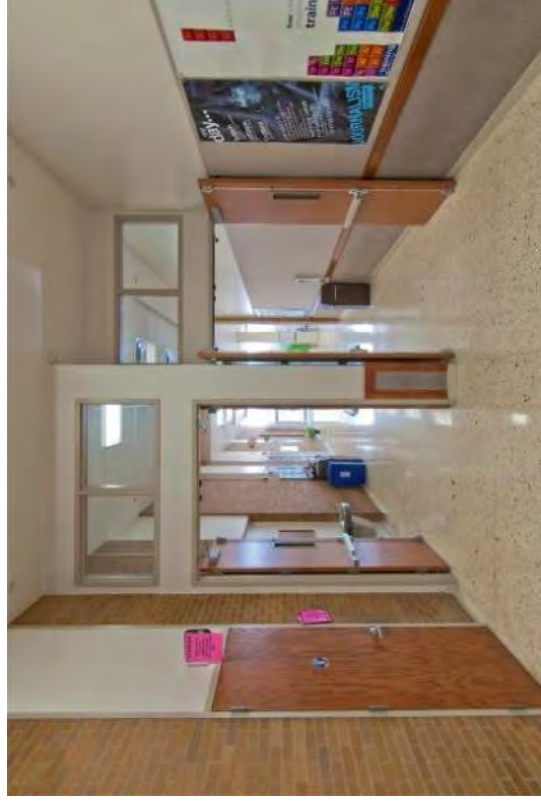
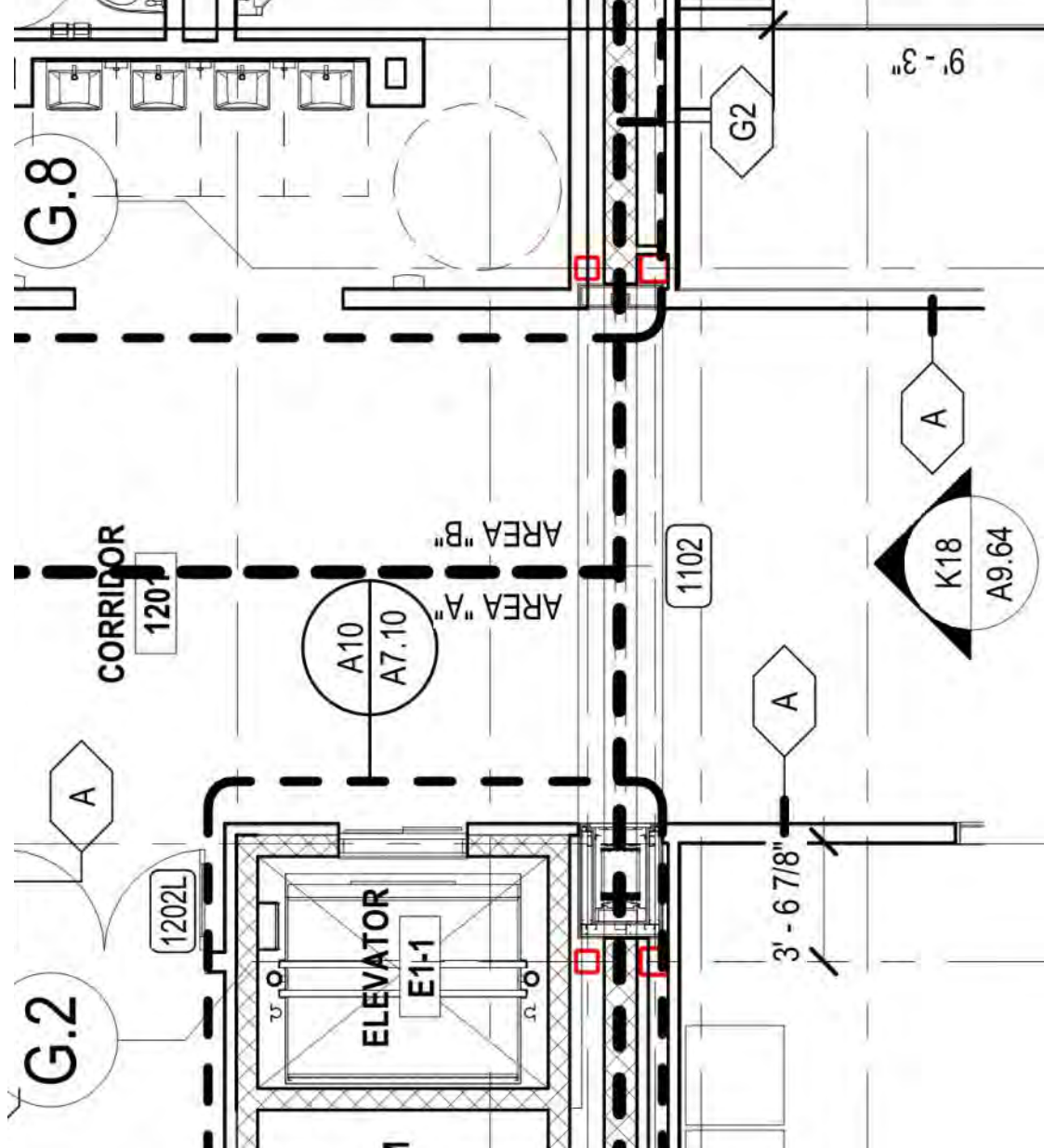
- 5/30 Code Officials Meeting
- 6/3 Electric Vehicles Telecon
- 6/4 Teachers and Parents Information Meetings - Construction
- 6/4 60% Cost Estimates submitted – Fontaine and PM&C
- 6/5 Conservation Commission – closed hearing, approved project with conditions
- 6/7 60% CD Estimate Reconciliation at SMMA
- 6/8 Neighborhood Information Meeting
- 6/10 Site Subcontractor De-Scoping Meetings
- 6/11 Foundation coordination conference call with Fontaine
- 6/12 MSBA Design Status Meeting

Ongoing: Internal coordination, consultant coordination, conference calls. Drawing & Specification progress.

Next Deadline: 6/18/19 – 60% CD MSBA submission



# VE LIST: "WON-DOOR"



Double egress  
fire doors in  
open position



Won-Door  
open position

- Accepted by Fire Chief and Building Inspector

# VE LIST: “WON-DOOR”

	Architectural, Interior Items:		
A09	Provide swinging full-height fire doors [(2) pairs @ 4' w x 9' tall] ILO "Won-Door" sliding fire door (3 levels)	(\$66,932)	DW TO PROVIDE MAINTENANCE INFO

- Annual maintenance estimate ~\$650-\$700
- Typical repair cost - service call average <\$500.
- Won-door offers maintenance agreements
- Annual testing required – part of maintenance
- Life expectancy 25-30 years – similar to major mechanical equipment

# “WON-DOOR” OWNER COMMENTS

Holbrook School, Holbrook, MA

Michael Bolger, Director of Facilities

- Non-fire rated horizontal door, used for security
- Same push-to-egress function, opens 4'-0" with green push par
- Need to manually reset
- This door is wired to open when the alarm is activated, opposite of our design, but similar circuitry
- Very reliable, used 60-70 days/year, no trouble
- Service yearly, about \$400/ year
- Advice: write master key system into Hardware spec
- Happy to have anyone come and see it



# THE NEW NORTHBRIDGE ELEMENTARY SCHOOL WHITINSVILLE, MASSACHUSETTS



## NEIGHBORS INFORMATION PRESENTATION

JUNE 8, 2019



NORTHBRIDGE  
PUBLIC SCHOOLS



Massachusetts School Building Authority  
*Funding. Affordable. Sustainable. and Efficient. Schools in Partnership with Local Communities*



**FONTAINE BROS., INC.**  
CONSTRUCTION MANAGERS  
GENERAL CONTRACTORS



DORE & WHITTIER  
ARCHITECTS, INC.

# AGENDA

- Site Plan Overview
- Exterior Design Images
- Site Safety
- Schedule & Logistics
- Project Phasing & Site Circulation Diagrams
- Project Management
- Communication Channels





# SITE & LANDSCAPE DESIGN PLAN

- Two site entrances
- Two-way circulation
- Emergency access behind school
- 246 parking spaces
- All athletic amenities reconstituted on-site – no net loss of fields





# SITE DESIGN PLAN (DETAIL)

- Separate bus and parent drop-off loops, Pre-K park-and-drop lot
- Protected pedestrian circulation, minimal crossings
- Lower and Upper age-specific playgrounds
- Outdoor learning spaces





# EXTERIOR MATERIALS



APPROACH TO  
MAIN ENTRANCE





AERIAL VIEW OF GRADES PK-2 PLAYGROUND





VIEW OF GRADES 3-5 PLAYGROUND





OVERALL SOUTHWEST AERIAL VIEW



# WE WILL ENSURE

- o SAFETY WILL BE A TOP PRIORITY
- o CONSTRUCTION WILL BE SEPARATED FROM SCHOOL ACTIVITIES
- o CURRENT SCHOOL TRAFFIC WILL CONTINUE UNINTERRUPTED
- o DAILY COMMUNICATION WITH THE SCHOOL AND NEIGHBORS
- o WE WILL CLOSELY MONITOR AND MINIMIZE THE IMPACT OF ALL DUST, NOISE, AND VIBRATION FOR THE NEIGHBORS AND THE SCHOOL
- o ALL CONSTRUCTION TRAFFIC AND DELIVERIES WILL BE PROHIBITED DURING SCHOOL DROP OFF AND PICK UP HOURS
- o ALL CONSTRUCTION PARKING WILL BE ON-SITE, WITHIN THE CONSTRUCTION ZONE
- o ONLY CORI APPROVED WORKERS WILL BE ON-SITE



# CONSTRUCTION TIMELINE

June 2019

- o Mobilize
- o Install erosion controls, site fence
- o Begin clearing and grubbing
- \*\* Please relocate any items beyond property line by June 28, 2019

July 2019

- o Continue earthwork, logistics work around existing school

August 2019

- o Complete logistical reconfiguration, continue earth moving

September 2019 – December

- o Earthwork, foundations

December 2019 – March 2020

- o Foundations, steel erection

March 2020 – April 2021

- o Complete Phase 1 Construction / New Building

June 2021 – December 2021

- o Abate / demolish Balmer, complete Vail Restoration

Spring 2022

- o Plant final fields





# CONSTRUCTION TRAFFIC ROUTES

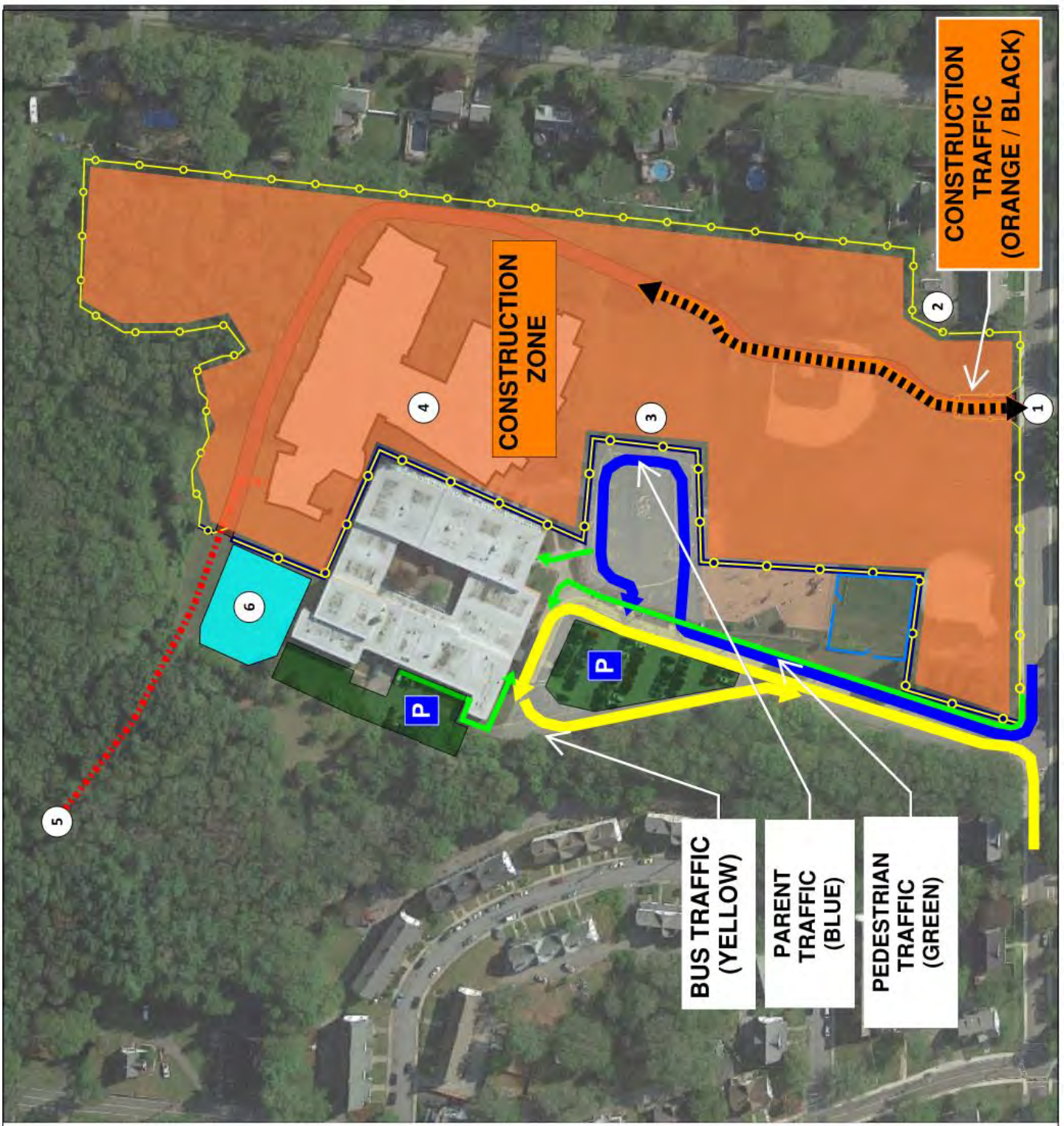




Town of Northbridge  
 Northbridge Elementary School  
 Logistics Setup 1: New Building Construction  
 Summer 2019 - Spring 2021

LEGEND

- 1 - Main construction entrance
- 2 - 8' Construction fence w/ scrim
- 3 - 6' Construction fence w/ scrim on top of jersey barriers
- 4 - New school building footprint
- 5 - Connection pathway for electrical and tel/com
- 6 - School muster area



**FONTAINE BROS., INC.**  
 CONSTRUCTION MANAGERS  
 GENERAL CONTRACTORS



Town of Northbridge  
 Northbridge Elementary School  
 Logistics Setup 2A: New School Substantial  
 Completion & Existing School Demo  
 Start of Summer 2021

LEGEND

- 1 - Main construction entrance
- 2 - Construction fence
- 3 - 6' Construction fence w/ scrim on top of jersey barriers
- 4 - Temporary school parking
- 5 - Existing school abatement / demolition
- 6 - Secondary / emergency access gate
- 7 - New school building footprint



CONSTRUCTION TRAFFIC (ORANGE / BLACK)

CONSTRUCTION ZONE

PEDESTRIAN TRAFFIC (GREEN)

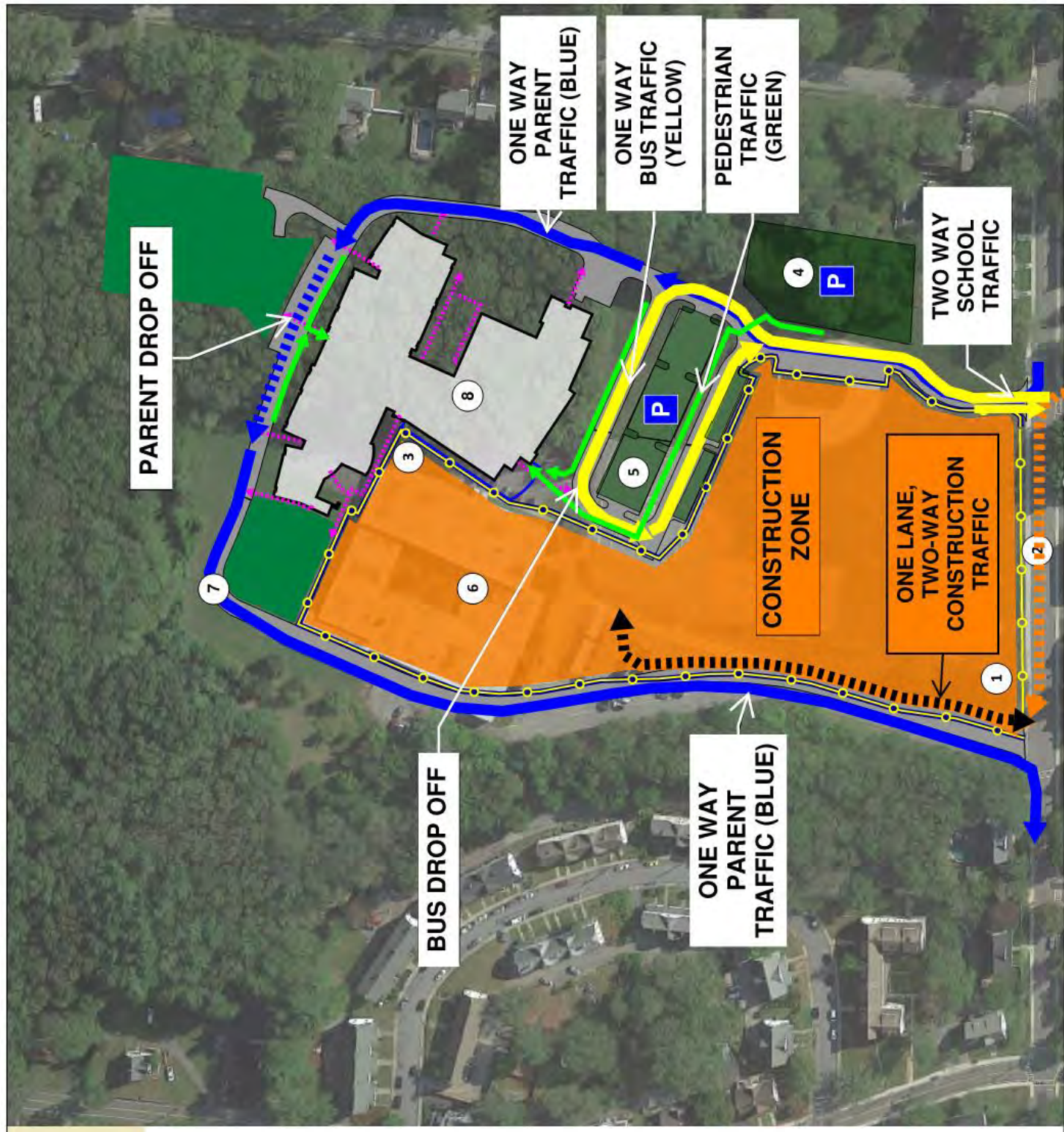
STAFF TRAFFIC (DK GREEN)



Town of Northbridge  
 Northbridge Elementary School  
 Logistics Setup 2B: School Opening &  
 Continuation of Site Finishes  
 End of Summer into Early Fall 2021

LEGEND

- 1 - Main construction entrance
- 2 - Construction fence
- 3 - 6' Construction fence w/ scrim on top of jersey barriers
- 4 - Temporary school parking
- 5 - West side of south parking lot completes to provide full loop for start of school year
- 6 - Existing school building is demolished
- 7 - New loop road is complete for start of school year
- 8 - New school building footprint





Town of Northbridge  
 Northbridge Elementary School  
 Logistics "Mini" Setup 3: Small U8 Fields at  
 Former Temp. Parking  
 Fall 2021 / Spring 2022

LEGEND

1 - Construction Entrance

2 - Construction fence around U8  
 soccer fields

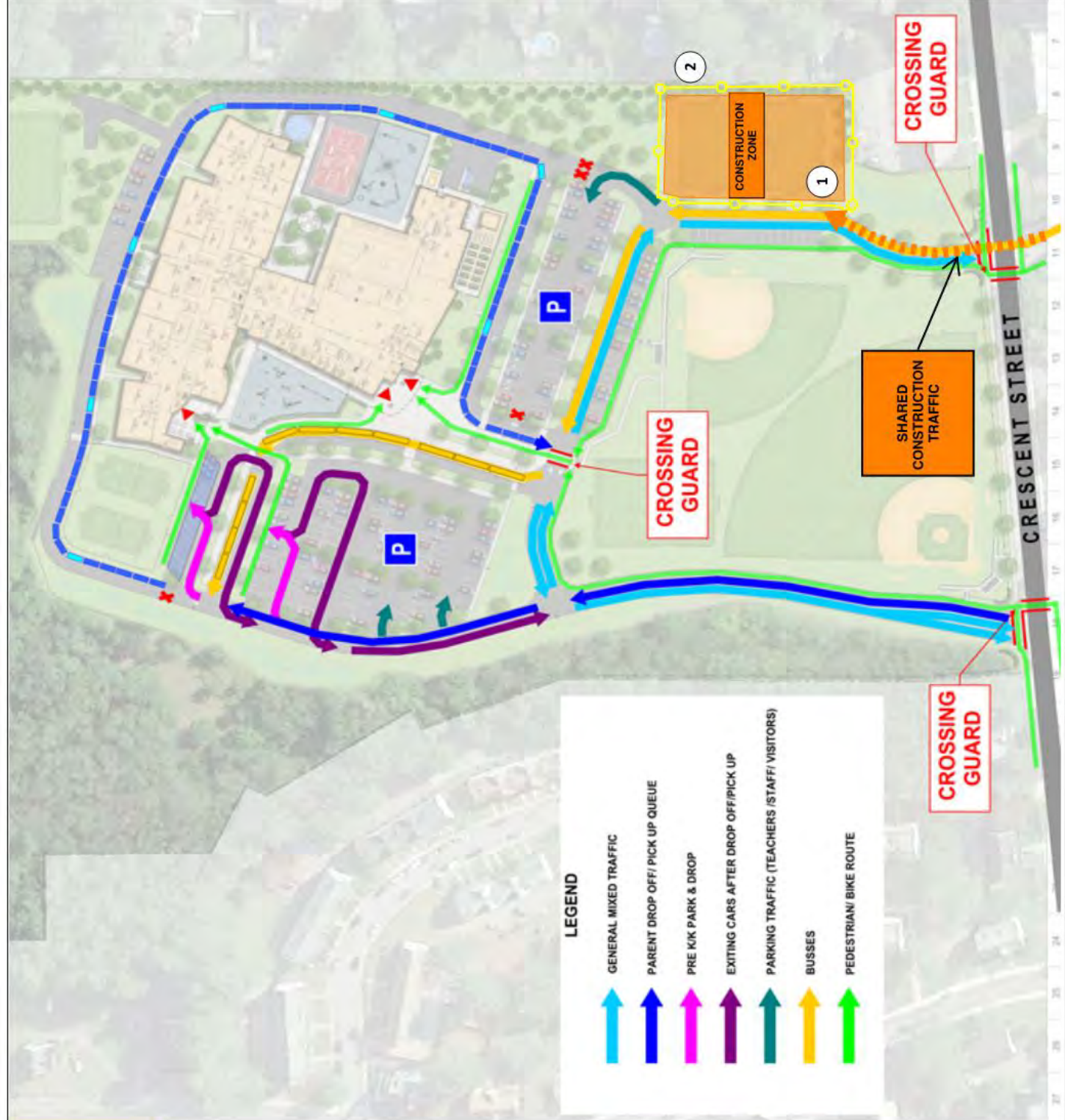
SEPARATED PATHS:

- Parent Drop-off
- Bus/Van
- Pre-K/K
- Cars parking
- Pedestrian/Bike



**LEGEND**

- ↑ GENERAL MIXED TRAFFIC
- ↑ PARENT DROP OFF/ PICK UP QUEUE
- ↑ PRE K/K PARK & DROP
- ↑ EXITING CARS AFTER DROP OFF/PICK UP
- ↑ PARKING TRAFFIC (TEACHERS /STAFF/ VISITORS)
- ↑ BUSESSES
- ↑ PEDESTRIAN/ BIKE ROUTE



# ESTIMATED CONSTRUCTION COST COMPARISON – 60% CD

	DD PHASE FONTAINE BROS., INC. (CM)	60% CD PHASE PM&C INC. (Designer's Estimator)	60% CD PHASE FONTAINE BROS., INC. (CM)
AREA (GSF)	167,352	167,352	167,352
BUILDING	\$50,767,822	\$53,812,348	\$54,179,110
SITE WORK	\$12,554,970	\$11,054,306	\$11,257,934
MARK-UPS	\$16,157,650	\$13,848,285	\$13,680,562
Post-DD VE	(\$629,476)		
<b>TOTAL</b>	<b>\$78,850,968</b>	<b>\$78,714,975</b>	<b>\$79,117,606</b>
Unit Cost (\$/SF)	\$471	\$470	\$473



# ESTIMATED CONSTRUCTION COST COMPARISON – SD / DD / 60% CD

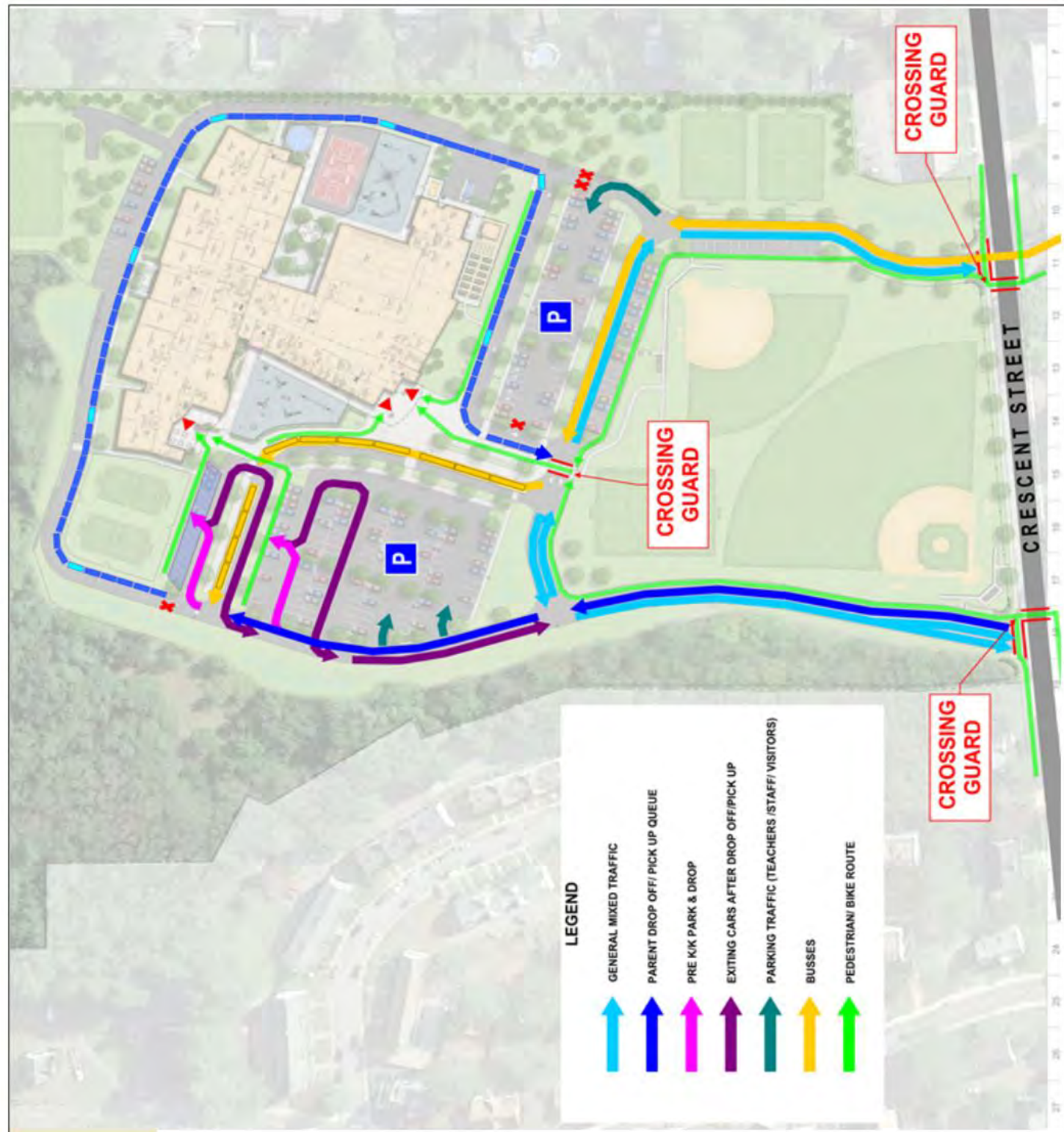
	SD PHASE FONTAINE BROS. INC. (CM)	DD PHASE FONTAINE BROS. INC. (CM)	60% CD PHASE FONTAINE BROS. INC. (CM)
AREA (GSF)	167,352	167,352	167,352
BUILDING	\$47,191,265	\$50,767,822	\$54,179,110
SITE WORK & DEMO	\$10,956,995	\$12,554,970	\$11,257,934
MARK-UPS	\$21,344,403	\$16,157,650	\$13,680,562
Post-DD VE		(\$629,476)	
<b>TOTAL</b>	<b>\$79,492,663</b>	<b>\$78,850,968</b>	<b>\$79,117,606</b>
Unit Cost (\$/SF)	\$475	\$471	\$473





SEPARATED PATHS:

- Parent Drop-off
- Bus/Van
- Pre-K/K
- Cars parking
- Pedestrian/Bike





# POINTS OF CONTACT

Fontaine Bros., Inc. – Construction Manager

Mike Cavanaugh – Lead Superintendent

[MCavanaugh@FontaineBros.com](mailto:MCavanaugh@FontaineBros.com) || 413-246-4007

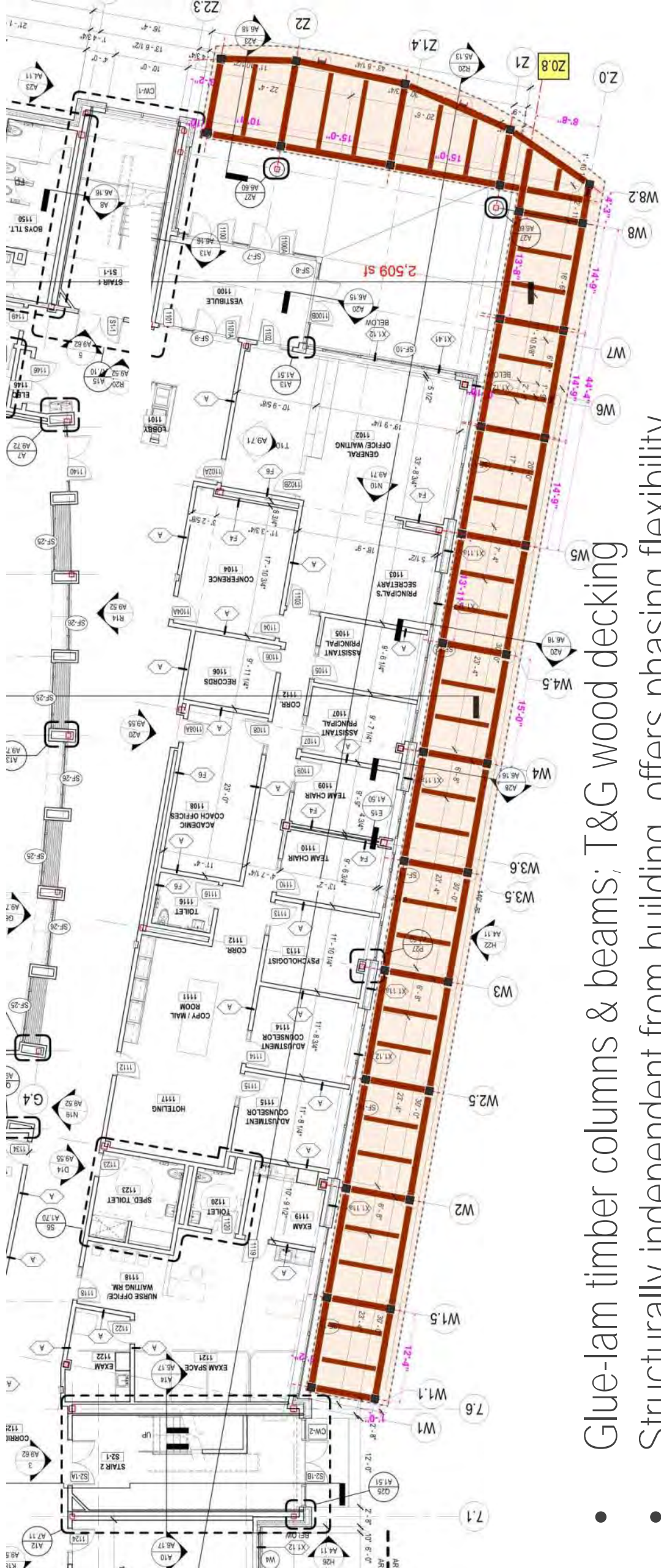
**SMMA – Owner’s Project Manager**

Tony Dias - On Site Representative

[adidas@smma.com](mailto:adidas@smma.com) || 508-951-2229



# ALTERNATE: WOOD CANOPY OPTION



- Glue-lam timber columns & beams; T&G wood decking
- Structurally independent from building, offers phasing flexibility
- Timber Canopy Alternate - DEDUCT (\$47,673.00)



# ALTERNATE: WOOD CANOPY OPTION



West Parish School, Gloucester



# ALTERNATE: SODDING SOCCER FIELDS

- Ready in 1 growing season, BUT DEPENDS HEAVILY on season planted, weather, wetness, etc.
- Not able to guarantee success without landscape sub on board
- (2) U-6 Fields – for Phase 2B play area for PK-K – ADD \$10,650
- (2) U-8 Fields – for speedier finish to job, save General Conditions: ADD \$22,500
- ADD \$33,150 TOTAL



# EXISTING BALMER ELECTRICAL UPDATE

## TRANSFORMER FAILED ON 4/28

- Generator blew as a result
- While replacing the transformer, existing conductors were too old to be re-used
- Utility and contractor had to run temp power overhead to new poles, trees needed to be cleared. Significant funds spent.
- Generator has problems with radiator and thermostat – being repaired, but confidence not high in success – will require hour-long test at full load. If it fails, the school is without backup power.
- The existing generator is a 50KW 120/208 3phase.



# EXISTING BALMER ELECTRICAL UPDATE

## POSSIBLE SCENARIOS:

- PRE-PURCHASE THE NEW BUILDING GENERATOR
  - costs to connect and relocate
  - phasing issue - need the new generator connected to the new building in advance of the existing building demo.
  - generator lead time is approximately 12-15 weeks.
  - A temp generator will be required for a period of time in this scenario to cover phasing. All-in ROM estimate would be:
    - Install pad and provide temp wiring to existing ATS - \$14,000 (12-15 week lead time)
    - Rigging and coordination for relocation - \$5,000
    - Temp gen for 3 months - \$10,700
    - Total = \$29,700
- RENT A GENERATOR FOR BALMER: Recent pricing for a 60KW unit, included connecting and disconnecting the wiring - \$1400 per month, plus connect/disconnect cost, so for two years the cost would be roughly \$40,000 (not including fuel).
- INSTALL A NEW GENERATOR FOR BALMER: new exterior pad mounted generator would be approximately \$75,000 construction cost (may require design services and will also have lead time issues)
  - The generator would have some value in the used market afterwards, but cost not justified.
- PURCHASE A MOBILE GENERATOR ON A TRAILER: temp gen on a trailer, town could use afterwards in emergency scenarios. A 50KW trailer mounted generator would cost approximately \$33,000



# EMERGENCY MASS NOTIFICATION SYSTEM

## WHAT IT IS:

- A Mass Notification System has been specified and is currently part of the project – cost is included in CD60 estimate ~\$22,000 for devices.
- Basically an adjunct to the Fire Alarm system
- Allows PA-like notification in the event of an emergency/ crisis situation.
- Definition:

**“The** capability to provide real-time information to all building occupants or persons in the immediate vicinity of a building during emergency situations.

To reduce the risk of mass casualties, there must be a timely means to notify building occupants of threats and what should be done in response to those threats.

Pre-recorded and live-voice emergency messages tell occupants what to do in the event of **an emergency.**”



# EMERGENCY MASS NOTIFICATION SYSTEM

## HOW IT WORKS:

- System has an autonomous control unit, used to monitor and control the notification network, and provides consoles for local operation.
- Using a console, personnel in the building can:
  - initiate delivery of pre-recorded voice messages,
  - provide live voice messages and instructions, and
  - initiate visual strobe and (optional) textual message notification appliances.
- The autonomous control unit will temporarily deactivate audible fire alarm devices while delivering voice messages to ensure they are intelligible.
- Different messages can be broadcast to different areas of the building or campus based on the proximity to the emergency.







Thank You!