

PSR COST ESTIMATE

SECTION 3.3.6.10

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PSR Cost Estimate

Tyngsborough Middle School New & Renovated School Options

Tyngsborough, MA

MSBA Project No. 201803010305

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Prepared for:

JCJ Architecture

June 15, 2021



Tyngsborough Middle School
Tyngsborough, MA

15-Jun-21

PSR Cost Estimate

MAIN CONSTRUCTION COST SUMMARY

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION A.1.1 - Renovation Only (Code Upgrade)				
Renovations	Jul-23	80,667	\$229.98	\$18,551,850
HazMat removals at Existing Building				\$1,522,671
Sitework - Trade Costs (Allowance including Softball field)	Jul-23			\$1,250,000
SUBTOTAL TRADE COSTS BUILDING and SITEWORK		80,667	\$264.35	\$21,324,521
Design and Estimating Contingency	15.0%			\$3,198,678
Escalation Allowance	8.7%			\$1,855,233
Phasing and Logistics				\$1,492,716
SUBTOTAL with CONTINGENCIES				\$27,871,148
General Conditions ¹		45 MTHS	\$120,000	\$5,400,000
General Requirements ¹	4.0%			\$1,114,846
Insurances	2.25%			\$627,101
Bond	1.00%			\$278,711
CM Fee	2.5%			\$882,295
CM Construction Contingency	5.0%			\$1,393,557
SWING SPACE ALLOWANCE - Modulares; assuming 8 classrooms				\$2,198,000
TOTAL ESTIMATED CONSTRUCTION COST		80,667	\$492.96	\$39,765,658



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MAIN CONSTRUCTION COST SUMMARY

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION B.1.1.1 - Renovation + Addition				
Renovations	Apr-23	17,802	\$259.26	\$4,615,333
Additions		96,938	\$357.15	\$34,621,303
Demolition of Existing Classroom Building + Connector		62,865	\$8.00	\$502,920
Allowance for HazMat removals at existing building				\$1,229,849
Sitework - Trade Costs	Apr-23			\$5,266,948
SUBTOTAL TRADE COSTS BUILDING and SITEWORK		114,740	\$402.97	\$46,236,353
Design and Estimating Contingency	10.0%			\$4,623,635
Escalation Allowance	7.7%			\$3,560,199
Phasing and Logistics				\$924,727
SUBTOTAL with CONTINGENCIES				\$55,344,914
General Conditions ¹		38 MTHS	\$120,000	\$4,560,000
General Requirements ¹	4.0%			\$2,213,797
Insurances	2.3%			\$1,272,933
Bond	1.00%			\$553,449
CM Fee	2.5%			\$1,598,627
CM Construction Contingency	3.0%			\$1,660,347
SWING SPACE ALLOWANCE				NR
TOTAL ESTIMATED CONSTRUCTION COST		114,740	\$585.71	\$67,204,067



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MAIN CONSTRUCTION COST SUMMARY

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION D2.1.1 - New Construction				
New School	Apr-23	112,418	\$348.78	\$39,208,697
Demolish Existing Building		80,667	\$7.00	\$564,669
Allowance for HazMat removals at existing building				\$1,171,285
Sitework - Trade Costs	Apr-23			\$4,566,423
SUBTOTAL TRADE COSTS BUILDING and SITEWORK		112,418	\$404.84	\$45,511,074
Design and Estimating Contingency	10.0%			\$4,551,107
Escalation Allowance	7.7%			\$3,504,353
Phasing and Logistics				NR
SUBTOTAL with CONTINGENCIES				\$53,566,534
General Conditions ¹		38 MTHS	\$120,000	\$4,560,000
General Requirements ¹	4.0%			\$2,142,661
Insurances	2.3%			\$1,232,030
Bond	1.00%			\$535,665
CM Fee	2.5%			\$1,550,922
CM Construction Contingency	3.0%			\$1,606,996
TOTAL ESTIMATED CONSTRUCTION COST		112,418	\$579.93	\$65,194,808



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MAIN CONSTRUCTION COST SUMMARY

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION D2.1.2 - New Construction				
New School	Apr-23	112,418	\$343.24	\$38,586,819
Demolish Existing Building		80,667	\$7.00	\$564,669
Allowance for HazMat removals at existing building				\$1,171,285
Sitework - Trade Costs	Apr-23			\$4,739,588
SUBTOTAL TRADE COSTS BUILDING and SITEWORK		112,418	\$400.85	\$45,062,361
Design and Estimating Contingency	10.0%			\$4,506,236
Escalation Allowance	7.7%			\$3,469,802
Phasing and Logistics				NR
SUBTOTAL with CONTINGENCIES				\$53,038,399
General Conditions ¹		38 MTHS	\$120,000	\$4,560,000
General Requirements ¹	4.0%			\$2,121,536
Insurances	2.3%			\$1,219,883
Bond	1.00%			\$530,384
CM Fee	2.5%			\$1,536,755
CM Construction Contingency	3.0%			\$1,591,152
TOTAL ESTIMATED CONSTRUCTION COST		112,418	\$574.62	\$64,598,109



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PSR Cost Estimate

MAIN CONSTRUCTION COST SUMMARY

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION D2.1.3 - New Construction				
New School	Apr-23	112,418	\$351.37	\$39,500,323
Demolish Existing Building		80,667	\$7.00	\$564,669
Allowance for HazMat removals at existing building				\$1,171,285
Sitework - Trade Costs	Apr-23			\$4,566,423
SUBTOTAL TRADE COSTS BUILDING and SITEWORK		112,418	\$407.43	\$45,802,700
Design and Estimating Contingency	10.0%			\$4,580,270
Escalation Allowance	7.7%			\$3,526,808
Phasing and Logistics				NR
SUBTOTAL with CONTINGENCIES				\$53,909,778
General Conditions ¹		38 MTHS	\$120,000	\$4,560,000
General Requirements ¹	4.0%			\$2,156,391
Insurances	2.3%			\$1,239,925
Bond	1.00%			\$539,098
CM Fee	2.5%			\$1,560,130
CM Construction Contingency	3.0%			\$1,617,293
TOTAL ESTIMATED CONSTRUCTION COST		112,418	\$583.38	\$65,582,615



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PSR Cost Estimate

MAIN CONSTRUCTION COST SUMMARY

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION D2.1.4 - New Construction				
New School	Apr-23	112,418	\$339.90	\$38,211,113
Demolish Existing Building		80,667	\$7.00	\$564,669
Allowance for HazMat removals at existing building				\$1,171,285
Sitework - Trade Costs	Apr-23			\$4,821,022
SUBTOTAL TRADE COSTS BUILDING and SITEWORK		112,418	\$398.23	\$44,768,089
Design and Estimating Contingency	10.0%			\$4,476,809
Escalation Allowance	7.7%			\$3,447,143
Phasing and Logistics				NR
SUBTOTAL with CONTINGENCIES				\$52,692,041
General Conditions ¹		38 MTHS	\$120,000	\$4,560,000
General Requirements ¹	4.0%			\$2,107,682
Insurances	2.3%			\$1,211,917
Bond	1.00%			\$526,920
CM Fee	2.5%			\$1,527,464
CM Construction Contingency	3.0%			\$1,580,761
TOTAL ESTIMATED CONSTRUCTION COST		112,418	\$571.14	\$64,206,785



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PSR Cost Estimate

¹ Based on C. 149a CMr

The costs presented in this report are ONLY for the comparison between the various options. These costs should not be represented as the final construction costs as the information they are based on is extremely preliminary and final construction costs may vary significantly from the PSR costs once the final design has been completed.

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:

- All professional fees and insurance
- Building Permit costs
- Land acquisition, feasibility, and financing costs
- 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 (e.g. draperies, furniture and equipment)
- Rock excavation; special foundations (unless indicated by design engineers)
- Utility company back charges, including work required off-site
- Work to City streets and sidewalks, (except as noted in this estimate)



CONSTRUCTION COST SUMMARY

BUILDING SYSTEM	Option A.1.1 - Base Reno		Option B1.1.1 - Reno/Add		Option D2.1.1 - New		Option D2.1.2 - New		Option D2.1.3 - New		Option D2.1.4 - New	
	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF
A10 FOUNDATIONS												
A1010 Standard Foundations	\$70,000	\$0.87	\$1,256,596	\$10.95	\$1,145,458	\$10.19	\$1,192,980	\$10.61	\$1,311,759	\$11.67	\$1,124,055	\$10.00
A1020 Special Foundations			\$964,512	\$8.41	\$1,080,112	\$9.61	\$1,064,640	\$9.47	\$1,162,032	\$10.34	\$1,086,560	\$9.67
A1030 Lowest Floor	\$201,660	\$2.50	\$1,148,969	\$10.01	\$1,195,647	\$10.64	\$1,179,834	\$10.50	\$1,278,960	\$11.38	\$1,202,111	\$10.69
A20 BASEMENT CONSTRUCTION												
A2010 Basement Excavation												
A2020 Basement Walls												
B10 SUPERSTRUCTURE												
B1010 Upper Floor	\$453,350	\$5.62	\$1,733,250	\$15.11	\$2,028,773	\$18.05	\$2,069,968	\$18.41	\$1,804,485	\$16.05	\$2,009,226	\$17.87
B1020 Roof Construction	\$353,320	\$4.38	\$2,512,466	\$21.90	\$2,775,678	\$24.69	\$2,741,425	\$24.39	\$2,962,578	\$26.35	\$2,787,700	\$24.80
B20 EXTERIOR CLOSURE												
B2010 Exterior Walls	\$992,012	\$12.30	\$3,496,441	\$30.47	\$3,400,814	\$30.25	\$3,080,180	\$27.40	\$3,365,192	\$29.93	\$2,868,112	\$25.51
B2020 Windows	\$61,848	\$0.77	\$1,959,838	\$17.08	\$2,210,659	\$19.66	\$2,009,089	\$17.87	\$2,188,270	\$19.47	\$1,875,766	\$16.69
B2030 Exterior Doors	\$60,839	\$0.75	\$99,088	\$0.86	\$95,116	\$0.85	\$95,116	\$0.85	\$95,116	\$0.85	\$95,116	\$0.85
B30 ROOFING												
B3010 Roof Coverings	\$1,189,604	\$14.75	\$1,900,932	\$16.57	\$1,803,551	\$16.04	\$1,795,409	\$15.97	\$1,957,121	\$17.41	\$1,816,664	\$16.16
B3020 Roof Openings	\$4,000	\$0.05	\$4,000	\$0.03	\$42,000	\$0.37	\$42,000	\$0.37	\$42,000	\$0.37	\$42,000	\$0.37
C10 INTERIOR CONSTRUCTION												
C1010 Partitions	\$1,210,005	\$15.00	\$2,698,408	\$23.52	\$2,922,868	\$26.00	\$2,922,868	\$26.00	\$2,922,868	\$26.00	\$2,922,868	\$26.00
C1020 Interior Doors	\$564,669	\$7.00	\$803,180	\$7.00	\$786,926	\$7.00	\$786,926	\$7.00	\$786,926	\$7.00	\$786,926	\$7.00
C1030 Specialties/Millwork	\$1,549,357	\$19.21	\$2,415,630	\$21.05	\$2,361,866	\$21.01	\$2,361,866	\$21.01	\$2,361,866	\$21.01	\$2,361,866	\$21.01
C20 STAIRCASES												
C2010 Stair Construction	\$40,000	\$0.50	\$94,500	\$0.82	\$182,500	\$1.62	\$129,500	\$1.15	\$129,500	\$1.15	\$129,500	\$1.15
C2020 Stair Finishes	\$56,000	\$0.69	\$19,500	\$0.17	\$27,500	\$0.24	\$14,500	\$0.13	\$14,500	\$0.13	\$14,500	\$0.13
C30 INTERIOR FINISHES												
C3010 Wall Finishes	\$887,337	\$11.00	\$1,262,140	\$11.00	\$1,336,598	\$11.89	\$1,336,598	\$11.89	\$1,336,598	\$11.89	\$1,336,598	\$11.89
C3020 Floor Finishes	\$645,336	\$8.00	\$1,161,660	\$10.12	\$1,011,762	\$9.00	\$1,011,762	\$9.00	\$1,011,762	\$9.00	\$1,011,762	\$9.00
C3030 Ceiling Finishes	\$806,670	\$10.00	\$1,147,400	\$10.00	\$1,199,180	\$10.67	\$1,199,180	\$10.67	\$1,199,180	\$10.67	\$1,199,180	\$10.67
D10 CONVEYING SYSTEMS												
D1010 Elevator	\$45,000	\$0.56	\$150,000	\$1.31	\$180,000	\$1.60	\$150,000	\$1.33	\$150,000	\$1.33	\$150,000	\$1.33
D20 PLUMBING												
D20 Plumbing	\$1,290,672	\$16.00	\$1,932,778	\$16.84	\$1,911,106	\$17.00	\$1,911,106	\$17.00	\$1,911,106	\$17.00	\$1,911,106	\$17.00
D30 HVAC												
D30 HVAC	\$4,194,684	\$52.00	\$6,310,700	\$55.00	\$6,182,990	\$55.00	\$6,182,990	\$55.00	\$6,182,990	\$55.00	\$6,182,990	\$55.00
D40 FIRE PROTECTION												
D40 Fire Protection	\$503,669	\$6.24	\$631,070	\$5.50	\$618,299	\$5.50	\$618,299	\$5.50	\$618,299	\$5.50	\$618,299	\$5.50
D50 ELECTRICAL												
D5040 Electrical Systems	\$1,815,008	\$22.50	\$4,021,680	\$35.05	\$3,747,376	\$33.33	\$3,747,376	\$33.33	\$3,747,376	\$33.33	\$3,747,376	\$33.33



PSR Cost Estimate	GFA	80,667	GFA	114,740	GFA	112,418	GFA	112,418	GFA	112,418	GFA	112,418
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CONSTRUCTION COST SUMMARY

BUILDING SYSTEM	Option A.1.1 - Base Reno		Option B1.1.1 - Reno/Add		Option D2.1.1 - New		Option D2.1.2 - New		Option D2.1.3 - New		Option D2.1.4 - New	
	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF
E10 EQUIPMENT												
E10 Equipment	\$680,600	\$8.44	\$835,600	\$7.28	\$760,600	\$6.77	\$760,600	\$6.77	\$760,600	\$6.77	\$760,600	\$6.77
E20 FURNISHINGS												
E2010 Fixed Furnishings	\$69,540	\$0.86	\$439,478	\$3.83	\$201,318	\$1.79	\$182,607	\$1.62	\$199,239	\$1.77	\$170,232	\$1.51
F20 SELECTIVE DEMOLITION												
F2010 Selective Demolition	\$806,670	\$10.00	\$236,820	\$2.06								
TOTAL DIRECT COST (Trade Costs)	\$18,551,850	\$229.98	\$39,236,636	\$341.96	\$39,208,697	\$348.78	\$38,586,819	\$343.24	\$39,500,323	\$351.37	\$38,211,113	\$339.90



PSR Cost Estimate

GFA

80,667

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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GROSS FLOOR AREA CALCULATION

1	<i>Classroom Building</i>						
	First Floor	27,305					
2	Second Floor	34,696					
3							
	<i>Gym Building</i>						
4	First Floor	8,027					
5	Second Floor	8,332					
	Connector	864					
6	Third Floor	1,443					

TOTAL GROSS FLOOR AREA (GFA)					80,667	sf	
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A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS							
	Allowance for minor patching to foundations	1	ls	20,000.00	20,000		
	Allowance for footings for new bracing; assume 100 LF	200	lf	250.00	50,000		
	SUBTOTAL					70,000	

A1020 SPECIAL FOUNDATIONS							
	No Work in this section						
	SUBTOTAL						

A1030 LOWEST FLOOR CONSTRUCTION							
	<u>Existing</u>						
	Patch/repair existing slab at reconfigured spaces including re-programmed spaces in locker rooms & bathrooms	35,332	sf	5.00	176,660		
	Trenching for new utilities	1	ls	20,000.00	20,000		
	New equipment pads	1	ls	5,000.00	5,000		
	SUBTOTAL					201,660	

TOTAL - FOUNDATIONS							\$271,660
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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						

TOTAL - BASEMENT CONSTRUCTION							
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B10 SUPERSTRUCTURE

B1010 FLOOR CONSTRUCTION							
	Allowance for seismic upgrades; connect existing CMU walls to structure; new shear walls etc.	45,335	sf	10.00	453,350		
	SUBTOTAL					453,350	

B1020 ROOF CONSTRUCTION							
	Allowance for seismic upgrades; connect existing CMU walls to structure; new shear walls etc.	35,332	sf	10.00	353,320		
	SUBTOTAL					353,320	

TOTAL - SUPERSTRUCTURE							\$806,670
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B20 EXTERIOR CLOSURE

B2010 EXTERIOR WALLS							
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PSR Cost Estimate

GFA

80,667

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
58	Existing Building	25,769	sf	Total Area				
59	<u>Interior skin</u>							
60	Insulate inside face of ETR exterior wall; includes studs, VB, insulation and GWB	25,769	sf	12.50	ETR			
61	<u>Exterior skin</u>							
62	Patch/Repair/Repoint/clean existing masonry/concrete	25,769	sf	30.00	773,070			
63	Patch/refinish existing soffits	7,391	sf	15.00	110,865			
64	<u>Miscellaneous</u>							
65	Entrance sign	1	ls	5,000.00	5,000			
66	Scaffold to exterior walls	34,359	sf	3.00	103,077			
67	SUBTOTAL					992,012		
68								
69	B2020 WINDOWS							
70	Aluminum windows/ Curtainwall/ Storefront	8,590	sf	110.00	ETR			
71	New storefront at entries/connector				ETR			
72	Air/Vapor barrier at openings	6,872	lf	6.00	ETR			
73	Backer rod & sealant at openings	6,872	lf	9.00	61,848			
74	Wood blocking at openings	6,872	lf	4.00	ETR			
75	SUBTOTAL					61,848		
76								
77	B2030 EXTERIOR DOORS							
78	<u>Exterior Doors - Aluminum</u>							
79	Glazed doors, double leaf (replace existing)	4	pr	9,000.00	36,000			
80	Glazed doors, single leaf (replace existing)	2	ea	4,500.00	9,000			
81	ADA Openers	1	set	5,000.00	5,000			
82	<u>Thermal break aluminum frames, FRP door and HW</u>							
83	Single leaf	1	ea	2,100.00	2,100			
84	Double leaf	2	pr	3,600.00	7,200			
85	<u>Miscellaneous</u>							
86	Backer rod & sealant to exterior doors	171	lf	5.00	855			
87	Wood blocking at door openings	171	lf	4.00	684			
88	SUBTOTAL					60,839		
89								
90	TOTAL - EXTERIOR CLOSURE							\$1,114,699
91								
92								
93	B30 ROOFING							
94								
95	B3010 ROOF COVERINGS							
96	<u>Flat Roofing:</u>							
97	Replace existing roofing with new PVC + R38 insulation; including removal of existing	43,892	sf	24.00	1,053,408			
98	Miscellaneous Roofing							
99	Factory fabricated fascia trim/roof edge	1,274	lf	30.00	38,220			
100	Air/Vapor barrier at roof edges	1,274	lf	8.00	10,192			
101	Wood blocking	43,892	sf	2.00	87,784			
102	SUBTOTAL					1,189,604		
103								
104	B3020 ROOF OPENINGS							
105	Roof hatches and ships ladder	1	ea	4,000.00	4,000			
106	SUBTOTAL					4,000		
107								
108	TOTAL - ROOFING							\$1,193,604
109								
110								
111	C10 INTERIOR CONSTRUCTION							
112								
113	C1010 PARTITIONS							
114	Patching/modifications to existing interior walls at reconfigured areas and for MEP upgrades	80,667	gsf	15.00	1,210,005			
115	Seismic Clips at the tops of all CMU interior partitions				Included With Structure			
116	SUBTOTAL					1,210,005		
117								



PSR Cost Estimate

GFA

80,667

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
118	C1020 INTERIOR DOORS							
119	Allowance for all new interior doors; frames and hardware	80,667	gsf	7.00	564,669			
120	SUBTOTAL					564,669		
121								
122	C1030 SPECIALTIES / MILLWORK							
123	ADA upgrades for stage access	1	ls	50,000.00	50,000			
124	Tack boards/Marker Boards	80,667	gsf	1.50	121,001			
125	IWB				FF&E			
126	Access panels	1	ls	5,000.00	5,000			
127	Fire extinguisher cabinets	27	ea	350.00	9,450			
128	Toilet partitions/accessories	9	rooms	5,000.00	45,000			
129	Allowance for all new millwork and casework package	80,667	gsf	12.00	968,004			
130	Metal corridor lockers; single tier	80,667	gsf	1.50	121,001			
131	Signage	80,667	gsf	0.60	48,400			
132	Misc. metals	80,667	gsf	1.00	80,667			
133	Misc. sealants	80,667	gsf	1.25	100,834			
134	SUBTOTAL					1,549,357		
135								
136	TOTAL - INTERIOR CONSTRUCTION							\$3,324,031
137								
138								
139	C20 STAIRCASES							
140								
141	C2010 STAIR CONSTRUCTION							
142	Upgrade stairs for code	4	flt	10,000.00	40,000			
143	SUBTOTAL					40,000		
144								
145	C2020 STAIR FINISHES							
146	Upgrade finishes to stairs	8	flt	7,000.00	56,000			
147	SUBTOTAL					56,000		
148								
149	TOTAL - STAIRCASES							\$96,000
150								
151								
152	C30 INTERIOR FINISHES							
153								
154	C3010 WALL FINISHES							
155	New wall finishes	80,667	gsf	11.00	887,337			
156	SUBTOTAL					887,337		
157								
158	C3020 FLOOR FINISHES							
159	Replace existing flooring throughout; VET in classrooms corridors	80,667	gsf	8.00	645,336			
160	SUBTOTAL					645,336		
161								
162	C3030 CEILING FINISHES							
163	Replace existing ceilings with new throughout	80,667	gsf	10.00	806,670			
164	SUBTOTAL					806,670		
165								
166	TOTAL - INTERIOR FINISHES							\$2,339,343
167								
168								
169	D10 CONVEYING SYSTEMS							
170								
171	D1010 ELEVATOR							
172	Upgrade controls for code	1	ls	45,000.00	45,000			
173	SUBTOTAL					45,000		
174								
175	TOTAL - CONVEYING SYSTEMS							\$45,000
176								
177								
178	D20 PLUMBING							
179								
180	D20 PLUMBING, GENERALLY							



PSR Cost Estimate

GFA

80,667

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
181	Plumbing renovation; replace all plumbing fixtures and all distribution piping; UG piping to remain	80,667	gsf	16.00	1,290,672			
182	SUBTOTAL					1,290,672		
184	TOTAL - PLUMBING							\$1,290,672
187	D30 HVAC							
188	D30 HVAC, GENERALLY							
189	Replace existing HVAC system; boilers to remain; new Chiller, VAV boxes, RTU's; full AC (displacement in classrooms); new DDC controls	80,667	gsf	52.00	4,194,684			
191	SUBTOTAL					4,194,684		
193	TOTAL - HVAC							\$4,194,684
196	D40 FIRE PROTECTION							
198	D40 FIRE PROTECTION, GENERALLY							
199	New water service for fire protection	1	ls	60,000.00	60,000			
200	New fire protection system	80,667	gsf	5.50	443,669			
201	SUBTOTAL					503,669		
203	TOTAL - FIRE PROTECTION							\$503,669
206	D50 ELECTRICAL							
208	Replace existing electrical system; existing service to remain; existing lighting to remain (code replacement only); New FA system; Tele/Data/Communication/Security to remain	80,667	gsf	22.50	1,815,008			
209	SUBTOTAL					1,815,008		
211	TOTAL - ELECTRICAL							\$1,815,008
214	E10 EQUIPMENT							
216	E10 EQUIPMENT, GENERALLY							
217	Kitchen equipment	1	ls	300,000.00	300,000			
218	Residential appliances	1	ls	10,000.00	10,000			
219	Auditorium curtains & equipment - allowance	1	ls	250,000.00	250,000			
221	116600 ATHLETIC EQUIPMENT							
222	Scoreboard and shot clock	1	ea	15,000.00	15,000			
223	Gym wall pads	1	ls	10,000.00	10,000			
224	Basketball backstops; retractable	6	ea	7,600.00	45,600			
225	Gymnasium dividing net	1	ls	20,000.00	20,000			
226	Motorized assisted telescoping gymnasium bleacher seating	1	ls	30,000.00	30,000			
227	SUBTOTAL					680,600		
229	TOTAL - EQUIPMENT							\$680,600
232	E20 FURNISHINGS							
234	E2010 FIXED FURNISHINGS							
235	Casework carried in specialties							
236	Recessed entry mats	300	sf	45.00	13,500			
237	Walk off mats	300	sf	15.00	4,500			
238	Window treatments	8,590	sf	6.00	51,540			
239	SUBTOTAL					69,540		



PSR Cost Estimate

GFA

80,667

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
241	E2020 MOVABLE FURNISHINGS							
242	All movable furnishings to be provided and installed by owner							
243	SUBTOTAL					NIC		
244	TOTAL - FURNISHINGS							\$69,540
245	F10 SPECIAL CONSTRUCTION							
246								
247	F10 SPECIAL CONSTRUCTION							
248	No items in this section							
249	SUBTOTAL							
250	TOTAL - SPECIAL CONSTRUCTION							
251								
252	F20 SELECTIVE BUILDING DEMOLITION							
253								
254	F2010 BUILDING ELEMENTS DEMOLITION							
255	Remove windows	8,590	sf	8.00	ETR			
256	Interior demolition	80,667	sf	10.00	806,670			
257	SUBTOTAL					806,670		
258	F2020 HAZARDOUS COMPONENTS ABATEMENT							
259	Removal of Asbestos Containing Materials in existing building -							
260	Included in Summary							
261	SUBTOTAL							
262	TOTAL - SELECTIVE BUILDING DEMOLITION							\$806,670
263								
264	SUBTOTAL OPTION A.1.1 - BASE REPAIR						\$ 18,551,850	



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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GROSS FLOOR AREA CALCULATION

<i>Gym Building</i>							
	First Floor	8,027					
	Second Floor	8,332					
	Third Floor	1,443					

TOTAL GROSS FLOOR AREA (GFA)					17,802 sf		
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A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

No work assumed

SUBTOTAL

A1020 SPECIAL FOUNDATIONS

No Work in this section

SUBTOTAL

A1030 LOWEST FLOOR CONSTRUCTION

Patch/repair/trenching existing slab at reconfigured spaces including re-programmed spaces **8,027** sf 8.00 64,216

New equipment pads **1** ls 10,000.00 10,000

SUBTOTAL 74,216

TOTAL - FOUNDATIONS					\$74,216		
----------------------------	--	--	--	--	-----------------	--	--

A20 BASEMENT CONSTRUCTION

A2010 BASEMENT EXCAVATION

No Work in this section

SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section

SUBTOTAL

TOTAL - BASEMENT CONSTRUCTION							
--------------------------------------	--	--	--	--	--	--	--

B10 SUPERSTRUCTURE

B1010 FLOOR CONSTRUCTION

Allowance for seismic upgrades; connect existing CMU walls to structure; new shear walls etc. **9,470** sf 10.00 94,700

SUBTOTAL 94,700

B1020 ROOF CONSTRUCTION

Allowance for seismic upgrades; connect existing CMU walls to structure; new shear walls etc. **8,332** sf 10.00 83,320

SUBTOTAL 83,320

TOTAL - SUPERSTRUCTURE					\$178,020		
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B20 EXTERIOR CLOSURE

B2010 EXTERIOR WALLS

Existing Building 11,703 sf Total Area

Interior skin

ETR exterior wall; add air barrier and insulation **11,703** sf 12.50 ETR

Exterior skin

Patch/Repair/Repoint/clean existing masonry/concrete **11,703** sf 30.00 351,090

Scaffold to exterior walls **11,703** sf 3.00 35,109

SUBTOTAL 386,199



PSR Cost Estimate

GFA

17,802

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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B2020 WINDOWS

	Aluminum windows/ Curtainwall/ Storefront	3,901	sf	110.00	ETR		
	New storefront at entries/connector				ETR		
	Air/Vapor barrier at openings	3,121	lf	6.00	ETR		
	Backer rod & sealant at openings	3,121	lf	9.00	28,089		
	Wood blocking at openings	3,121	lf	4.00	ETR		
	SUBTOTAL					28,089	

B2030 EXTERIOR DOORS

	SUBTOTAL					-	
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TOTAL - EXTERIOR CLOSURE

\$414,288

B30 ROOFING

B3010 ROOF COVERINGS

061000 ROUGH CARPENTRY

	Rough blocking	1,564	lf	10.00	15,640		
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070001 WATERPROOFING, DAMPPROOFING AND CAULKING

	AVB at roof perimeter	391	lf	8.00	3,128		
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070002 ROOFING AND FLASHING

Flat Roof

	Replace existing roofing with new PVC + R38 insulation; including removal of existing	8,332	sf	24.00	199,968		
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Miscellaneous Roofing

	Factory fabricated fascia trim/roof edge	391	lf	45.00	17,595		
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	Roof ladders	1	ls	5,000.00	5,000		
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	Miscellaneous flashings	8,332	sf	2.00	16,664		
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	SUBTOTAL					257,995	
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B3020 ROOF OPENINGS

	SUBTOTAL					-	
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TOTAL - ROOFING

\$257,995

C10 INTERIOR CONSTRUCTION

C1010 PARTITIONS

	Replace existing walls for new layouts	17,802	gsf	10.00	178,020		
	Seismic Clips at the tops of ETR CMU interior partitions				included in allowance/sf		
	SUBTOTAL					178,020	

C1020 INTERIOR DOORS

	Allowance for all new interior doors; frames and hardware	17,802	gsf	7.00	124,614		
	SUBTOTAL					124,614	

C1030 SPECIALTIES / MILLWORK

	Tack boards/Marker Boards	17,802	gsf	1.50	26,703		
--	---------------------------	--------	-----	------	--------	--	--

	IWB				FF&E		
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	Access panels	1	ls	5,000.00	5,000		
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	Fire extinguisher cabinets	6	ea	350.00	2,100		
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	Toilet partitions/accessories	17,802	gsf	2.00	35,604		
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	Allowance for all new millwork and casework package	17,802	gsf	12.00	213,624		
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	Lockers	17,802	gsf	1.50	26,703		
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	Signage	17,802	gsf	0.60	10,681		
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	Misc. metals	17,802	gsf	2.00	35,604		
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PSR Cost Estimate

GFA

17,802

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
129	Misc. sealants	17,802	gsf	1.25	22,253		
130	SUBTOTAL					378,272	
TOTAL - INTERIOR CONSTRUCTION							\$680,906
C20 STAIRCASES							
C2010 STAIR CONSTRUCTION							
138	SUBTOTAL					-	
C2020 STAIR FINISHES							
141	SUBTOTAL					-	
TOTAL - STAIRCASES							
C30 INTERIOR FINISHES							
C3010 WALL FINISHES							
149	New wall finishes	17,802	gsf	11.00	195,822		
150	SUBTOTAL					195,822	
C3020 FLOOR FINISHES							
153	Replace existing flooring gym	8,600	sf	24.00	206,400		
154	Replace existing flooring throughout	9,202	gsf	9.00	82,818		
155	SUBTOTAL					289,218	
C3030 CEILING FINISHES							
158	Replace existing ceilings with new throughout	17,802	gsf	10.00	178,020		
159	SUBTOTAL					178,020	
TOTAL - INTERIOR FINISHES							\$663,060
D10 CONVEYING SYSTEMS							
D1010 ELEVATOR							
167	SUBTOTAL					-	
TOTAL - CONVEYING SYSTEMS							
D20 PLUMBING							
D20 PLUMBING, GENERALLY							
175	Plumbing renovation; replace all plumbing fixtures and all distribution piping; UG piping to remain	17,802	gsf	16.00	284,832		
176	SUBTOTAL					284,832	
TOTAL - PLUMBING							\$284,832
D30 HVAC							
D30 HVAC, GENERALLY							
184	Replace existing HVAC system	17,802	gsf	55.00	979,110		
185	SUBTOTAL					979,110	
TOTAL - HVAC							\$979,110



PSR Cost Estimate

GFA

17,802

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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D40 FIRE PROTECTION

D40 FIRE PROTECTION, GENERALLY

	New water service for fire protection					w/ site	
	New fire protection system	17,802	gsf	5.50	97,911		
	SUBTOTAL					97,911	

TOTAL - FIRE PROTECTION \$97,911

D50 ELECTRICAL

	Replace existing electrical system	17,802	gsf	32.00	569,664		
	SUBTOTAL					569,664	

TOTAL - ELECTRICAL \$569,664

E10 EQUIPMENT

E10 EQUIPMENT, GENERALLY

<i>116600</i>	<i>ATHLETIC EQUIPMENT</i>						
	Scoreboard and shot clock	1	ea	15,000.00	15,000		
	Gym wall pads	1	ls	10,000.00	10,000		
	Basketball backstops; retractable	6	ea	7,600.00	45,600		
	Gymnasium dividing net	1	ls	20,000.00	20,000		
	Motorized assisted telescoping gymnasium bleacher seating (200 seat)	1	ls	40,000.00	40,000		
	SUBTOTAL					130,600	

TOTAL - EQUIPMENT \$130,600

E20 FURNISHINGS

E2010 FIXED FURNISHINGS

<i>124813</i>	<i>ENTRANCE FLOOR MAT AND FRAMES</i>						
	Recessed entry mats & walk-off mats	1	ls	5,000.00	5,000		
<i>123000</i>	<i>CASEWORK</i>						
	Casework carried in specialties						
<i>122400</i>	<i>WINDOW TREATMENT</i>						
	Window treatments	3,901	sf	7.00	27,307		
	Premium for motorized shades	1	ls	15,604.00	15,604		
	SUBTOTAL					47,911	

E2020 MOVABLE FURNISHINGS

	All movable furnishings to be provided and installed by owner						
	SUBTOTAL						NIC

TOTAL - FURNISHINGS \$47,911

F10 SPECIAL CONSTRUCTION

F10 SPECIAL CONSTRUCTION

	No items in this section						
	SUBTOTAL						

TOTAL - SPECIAL CONSTRUCTION



PSR Cost Estimate

GFA

17,802

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
F20	SELECTIVE BUILDING DEMOLITION						
F2010	BUILDING ELEMENTS DEMOLITION						
	Remove exterior closure at locations now interior	3,920	sf	15.00	58,800		
	Interior demolition	17,802	sf	10.00	178,020		
	SUBTOTAL					236,820	
F2020	HAZARDOUS COMPONENTS ABATEMENT						
	Removal of Asbestos Containing Materials in existing building - Included in Summary						
	SUBTOTAL						
TOTAL - SELECTIVE BUILDING DEMOLITION							\$236,820

SUBTOTAL OPTION B.1.1.1 RENOVATION

\$ 4,615,333



PSR Cost Estimate

GFA

96,938

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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GROSS FLOOR AREA CALCULATION

First Floor	60,282
Second Floor	36,656

TOTAL GROSS FLOOR AREA (GFA)	96,938 sf
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A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

033000 CONCRETE

Strip Footings	202	CY
Foundation Walls	359	CY
Spread Footings	700	CY
Piers	53	CY
Total Foundation Concrete	1,314	CY

Strip footings at typical foundation wall: 3'x12" deep

Formwork	3,466	sf	14.00	48,524
Re-bar	6,060	lbs.	2.00	12,120
Concrete material	202	cy	132.00	26,664
Placing concrete	202	cy	90.00	18,180

Foundation walls: 14"-16" thick

Formwork	13,864	sf	18.00	249,552
Re-bar	27,728	lbs.	2.00	55,456
Concrete material	359	cy	132.00	47,388
Placing concrete	359	cy	90.00	32,310
Form shelf	1,733	lf	8.00	13,864

Spread Footings: 9'x9'x24", typical at interior

Formwork	5,760	sf	16.00	92,160
Re-bar	37,800	lbs.	2.00	75,600
Concrete material	504	cy	132.00	66,528
Placing concrete	504	cy	90.00	45,360
Set anchor bolts grout plates	80	ea	150.00	12,000

Spread Footings: exterior 6'x6'x24", typical

Formwork	3,360	sf	16.00	53,760
Re-bar	14,700	lbs.	2.00	29,400
Concrete material	196	cy	132.00	25,872
Placing concrete	196	cy	90.00	17,640
Set anchor bolts grout plates	70	ea	150.00	10,500

Piers/Pilasters - allow

Formwork	3,600	sf	22.00	79,200
Re-bar	13,250	lbs	1.20	15,900
Concrete material	53	cy	132.00	6,996
Placing concrete	53	cy	120.00	6,360

070001 WATERPROOFING, DAMPPROOFING AND CAULKING

Dampproofing at foundation wall	10,398	sf	2.15	22,356
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072100 THERMAL INSULATION

Insulation at foundation walls	6,932	sf	3.00	20,796
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312000 EARTHWORK

Strip footings

Excavation	1,284	cy	14.00	17,976
Remove off site	202	cy	12.00	2,424
Backfill with onsite material	1,082	cy	16.00	17,312

Spread footings

Excavation	2,221	cy	14.00	31,094
Remove off site	753	cy	12.00	9,036
Backfill with onsite material	1,468	cy	16.00	23,488



PSR Cost Estimate

GFA

96,938

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
62	<u>Miscellaneous</u>							
63	Gravel fill beneath footings, 12"	333	cy	38.00	12,654			
64	Perimeter drainage	1,733	lf	22.00	38,126			
65	Under slab drainage				assume NR			
66	Dewatering for foundation work	1	ls	20,000.00	20,000			
67	SUBTOTAL					1,256,596		
68								
69	A1020 SPECIAL FOUNDATIONS							
70	Ground improvement system; RAPS	60,282	sf	16.00	964,512			
71	SUBTOTAL					\$964,512		
72								
73	A1030 LOWEST FLOOR CONSTRUCTION							
74	033000 CONCRETE							
75	<u>New Slab on grade, 5" thick</u>							
76	Vapor barrier	60,282	sf	1.00	60,282			
77	Mesh reinforcing 15% lap	69,324	sf	1.25	86,655			
78	Concrete - 5" thick; 4,000 psi	985	cy	135.00	132,975			
79	Placing concrete	985	cy	55.00	54,175			
80	Finishing and curing concrete	60,282	sf	2.75	165,776			
81	Control joints - saw cut	60,282	sf	0.20	12,056			
82	<u>Miscellaneous</u>							
83	Elevator pit	1	loc	40,000.00	40,000			
84	Loading dock - allow	1	ls	30,000.00	30,000			
85	Equipment pads	1	ls	15,000.00	15,000			
86								
87	072100 THERMAL INSULATION							
88	Insulation, 2"	60,282	sf	2.50	150,705			
89								
90	312000 EARTHWORK							
91	Rough and fine grade - included in site							
92	Compact sub-grade	60,282	sf	0.50	30,141			
93	Structural fill, 8"	1,489	cy	38.00	56,582			
94	Base course, 8"	1,489	cy	40.00	59,560			
95	Radon system	60,282	sf	2.00	120,564			
96	Plumbing E&B	60,282	sf	1.00	60,282			
97	SUBTOTAL					1,074,753		
98								
99	TOTAL - FOUNDATIONS							\$3,295,861
100								
101								
102	A20 BASEMENT CONSTRUCTION							
103								
104	A2010 BASEMENT EXCAVATION							
105	No Work in this section							
106	SUBTOTAL							
107								
108	A2020 BASEMENT WALLS							
109	No Work in this section							
110	SUBTOTAL							
111								
112	TOTAL - BASEMENT CONSTRUCTION							
113								
114								
115	B10 SUPERSTRUCTURE							
116								
117	B1010 FLOOR CONSTRUCTION							
118	033000 CONCRETE		634	FLOORS AND ROOF				
119	Concrete on Metal Deck		13.1	/SF				
120	WWF reinforcement	42,154	sf	1.25	52,693			
121	Concrete fill to metal deck; light weight, 5-1/4" thick	594	cy	175.00	103,950			



PSR Cost Estimate

GFA

96,938

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
122	Moisture mitigation admixture					NIC		
123	Place and finish concrete	36,656	sf	2.50	91,640			
124	Rebar to decks	10,997	lbs	2.00	21,994			
125	Allowance for beam penetrations	1	ls	25,000.00	25,000			
126								
127	051200 STRUCTURAL STEEL FRAMING							
128	Steel framing - beams/columns/bracing/girders, 13 PSF	238	tns	4,500.00	1,071,000			
129	Shear studs	8,146	ea	3.50	28,511			
130	2" Metal galvanized floor deck	36,656	sf	4.00	146,624			
131								
132	078100 FIREPROOFING/FIRESTOPPING							
133	Firestopping	36,656	sf	0.15	5,498			
134	Fireproofing	36,656	sf	2.50	91,640			
135	SUBTOTAL					1,638,550		
136								
137	B1020 ROOF CONSTRUCTION							
138								
139	033000 CONCRETE							
140	WWF reinforcement	8,625	sf	1.25	10,781			
141	Concrete fill to metal deck; light weight, 4-1/2" thick	120	cy	175.00	21,000			
142	Place and finish concrete	7,500	sf	2.50	18,750			
143	Rebar to decks	2,250	lbs	2.00	4,500			
144								
145	051200 STRUCTURAL STEEL FRAMING							
146	Typical steel framing - beams/columns/bracing/girders, 13 PSF	392	tns	4,500.00	1,764,000			
147	Premium for steel at rooftop equipment - 1lb/sf	4	tns	4,500.00	18,000			
148	3" Metal galvanized roof deck	60,282	sf	4.50	271,269			
149	Premium for acoustic deck	5,000	sf	5.00	25,000			
150	Roof screen support; 15 PSF	11	tns	5,000.00	55,000			
151	Canopy framing; allowance	1,000	sf	30.00	30,000			
152	Expansion joints	1	ls	30,000.00	30,000			
153								
154	078100 FIREPROOFING/FIRESTOPPING							
155	Fireproofing	60,282	sf	3.00	180,846			
156	SUBTOTAL					2,429,146		
157								
158	TOTAL - SUPERSTRUCTURE						\$4,067,696	
159								
160								
161	B20 EXTERIOR CLOSURE							
162								
163	B2010 EXTERIOR WALLS; 70% SOLID							
164								
165	042000 MASONRY	36,393	sf					
166	Face brick	36,393	sf	40.00	1,455,720			
167	Staging to exterior wall	51,990	sf	3.50	181,965			
168								
169	052000 MISC. METALS							
170	Miscellaneous metals	36,393	sf	1.00	36,393			
171								
172	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
173	Air and vapor barrier	36,393	sf	7.50	272,948			
174	Air/Vapor barrier at window & louver openings	7,799	lf	6.00	46,794			
175	Miscellaneous sealants	36,393	sf	0.50	18,197			
176								
177	076400 CLADDING							
178	Roof screen (allow 200LF)	2,400	sf	70.00	168,000			
179								
180	072100 THERMAL INSULATION							
181	Insulation at exterior closure	36,393	sf	6.00	218,358			



PSR Cost Estimate

GFA

96,938

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
182	Insulation at window openings	7,799	lf	2.50	19,498			
183								
184	092900 GYPSUM BOARD ASSEMBLIES							
185	Sheathing, 5/8"	36,393	sf	3.25	118,277			
186	8" metal stud back-up	36,393	sf	12.00	436,716			
187	GWB lining	36,393	sf	3.50	127,376			
188								
189	101400 SIGNAGE							
190	Building signage, allow	1	ls	10,000.00	10,000			
191	SUBTOTAL					3,110,242		
192								
193	B2020 WINDOWS; 30% GLAZED	15,597	sf					
194								
195	061000 ROUGH CARPENTRY							
196	Wood blocking at openings	7,799	lf	12.00	93,588			
197								
198	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
199	Backer rod & double sealant	7,799	lf	9.00	70,191			
200								
201	080001 WINDOWS							
202	Aluminum windows	12,478	sf	105.00	1,310,190			
203	Curtainwall; 20% of glazed area	3,119	sf	120.00	374,280			
204	Sunscreens - allowance	400	lf	200.00	80,000			
205								
206	089000 LOUVERS							
207	Aluminum louvers - allowance	50	sf	70.00	3,500			
208	SUBTOTAL					1,931,749		
209								
210	B2030 EXTERIOR DOORS							
211								
212	061000 ROUGH CARPENTRY							
213	Wood blocking at openings	128	lf	11.00	1,408			
214								
215	079200 JOINT SEALANTS							
216	Backer rod & double sealant	128	lf	10.00	1,280			
217								
218	081110 HOLLOW METAL							
219	HM door and frame	6	leaf	850.00	5,100			
220								
221	080001 GLAZED ENTRANCES							
222	Glazed aluminum entrance doors including frame and hardware; single	2	ea	5,000.00	10,000			
223	Glazed aluminum entrance doors including frame and hardware; double	6	pr	10,000.00	60,000			
224								
225	086000 COILING DOORS							
226	Coiling doors -allow	1	ea	6,500.00	6,500			
227								
228	087100 DOOR HARDWARE							
229	Hardware	6	leaf	1,600.00	9,600			
230	Auto opener at main entry vestibule	1	ea	4,000.00	4,000			
231								
232	090007 PAINTING							
233	Finish doors and frames	6	ea	200.00	1,200			
234	SUBTOTAL					99,088		
235								
236	TOTAL - EXTERIOR CLOSURE						\$5,141,079	
237								
238								
239	B30 ROOFING							
240								



PSR Cost Estimate

GFA

96,938

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
241	B3010 ROOF COVERINGS							
242								
243	061000 ROUGH CARPENTRY							
244	Rough blocking	6,932	lf	10.00	69,320			
245								
246	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
247	AVB at roof perimeter	1,733	lf	8.00	13,864			
248								
249	070002 ROOFING AND FLASHING							
250	Flat Roof							
251	PVC membrane roofing system; R38 insulation	60,282	sf	22.00	1,326,204			
252	Membrane to canopies	1,000	sf	12.00	12,000			
253	Miscellaneous Roofing							
254	Factory fabricated fascia trim/roof edge	1,733	lf	45.00	77,985			
255	Walk pads	1,500	sf	12.00	18,000			
256	Roof ladders	1	ls	5,000.00	5,000			
257	Miscellaneous flashings	60,282	sf	2.00	120,564			
258	SUBTOTAL					1,642,937		
259								
260	B3020 ROOF OPENINGS							
261								
262	086300 ROOF SKYLIGHTS + HATCHES							
263	Skylights	200	sf	150.00	NR			
264	Roof hatches and ships ladder	1	ea	4,000.00	4,000			
265	SUBTOTAL					4,000		
266								
267	TOTAL - ROOFING						\$1,646,937	
268								
269								
270	C10 INTERIOR CONSTRUCTION							
271								
272	C1010 PARTITIONS							
273	Interior partitions	96,938	gsf	22.00	2,132,636			
274	Allowance for interior glazing, borrowed lites etc.	96,938	gsf	4.00	387,752			
275	SUBTOTAL					2,520,388		
276								
277	C1020 INTERIOR DOORS							
278	Allowance for all new interior doors	96,938	gsf	7.00	678,566			
279	SUBTOTAL					678,566		
280								
281	C1030 SPECIALTIES / MILLWORK							
282	Tack boards/Marker Boards	96,938	gsf	1.50	145,407			
283	IWB				FF&E			
284	Access panels	1	ls	5,000.00	5,000			
285	Fire extinguisher cabinets	32	ea	350.00	11,200			
286	Toilet partitions/accessories	96,938	gsf	2.00	193,876			
287	Allowance for all new millwork and casework package	96,938	gsf	12.00	1,163,256			
288	Lockers	96,938	gsf	1.50	145,407			
289	Signage	96,938	gsf	0.60	58,163			
290	Misc. metals	96,938	gsf	2.00	193,876			
291	Misc. sealants	96,938	gsf	1.25	121,173			
292	SUBTOTAL					2,037,358		
293								
294	TOTAL - INTERIOR CONSTRUCTION						\$5,236,312	
295								
296								
297	C20 STAIRCASES							
298								
299	C2010 STAIR CONSTRUCTION							
300								



PSR Cost Estimate

GFA

96,938

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
301	033000 CONCRETE						
302	Concrete to stairs	3	flt	1,500.00	4,500		
303							
304	055000 MISCELLANEOUS METALS						
305	Egress stairs	3	flt	30,000.00	90,000		
306	SUBTOTAL					94,500	
307							
308	C2020 STAIR FINISHES						
309	090005 RESILIENT FLOORS						
310	Rubber tile at egress stair	3	flt	5,000.00	15,000		
311							
312	090007 PAINTING						
313	Paint to stairs	3	flt	1,500.00	4,500		
314	SUBTOTAL					19,500	
315							
316							
317	TOTAL - STAIRCASES						\$114,000
318							
319							
320	C30 INTERIOR FINISHES						
321							
322	C3010 WALL FINISHES						
323	Wall finishes	96,938	gsf	11.00	1,066,318		
324	SUBTOTAL					1,066,318	
325							
326	C3020 FLOOR FINISHES						
327	Floor finishes throughout	96,938	gsf	9.00	872,442		
328	SUBTOTAL					872,442	
329							
330	C3030 CEILING FINISHES						
331	Ceilings throughout	96,938	gsf	10.00	969,380		
332	SUBTOTAL					969,380	
333							
334	TOTAL - INTERIOR FINISHES						\$2,908,140
335							
336							
337	D10 CONVEYING SYSTEMS						
338							
339	D1010 ELEVATOR						
340	New two stop elevator	1	ls	150,000.00	150,000		
341	SUBTOTAL					150,000	
342							
343	TOTAL - CONVEYING SYSTEMS						\$150,000
344							
345							
346	D20 PLUMBING						
347							
348	D20 PLUMBING, GENERALLY						
349	New construction includes domestic water service, gas fired hot water heating, sanitary drainage system, roof drainage system, natural gas, plumbing fixtures, and insulation	96,938	gsf	17.00	1,647,946		
350	SUBTOTAL					1,647,946	
351							
352	TOTAL - PLUMBING						\$1,647,946
353							
354							
355	D30 HVAC						
356							
357	D30 HVAC, GENERALLY						



PSR Cost Estimate

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96,938

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
358	HVAC system; full AC; water source VRF; gas fired condensing boilers; closed hybrid cooling tower; RTU's; VAV boxes, displacement system in classrooms; ATC	96,938	gsf	55.00	5,331,590		
359	SUBTOTAL					5,331,590	
TOTAL - HVAC							\$5,331,590
D40 FIRE PROTECTION							
D40 FIRE PROTECTION, GENERALLY							
367	New water service for fire protection				w/site		
368	New fire protection system includes new double check valve assembly, wet alarm valve, electric bell, fire department connection, control valve assemblies, sprinklers, and piping	96,938	gsf	5.50	533,159		
369	SUBTOTAL					533,159	
TOTAL - FIRE PROTECTION							\$533,159
D50 ELECTRICAL							
376	New electrical system; complete; 2000 Amp service; 350kW Generator; LED lighting; FA, tele/Data, PA + security	96,938	gsf	32.00	3,102,016		
377	Auditorium premium						
378	Theatrical dimming and lighting package	1	ls	170,000.00	170,000		
379	Theater AV Equipment	1	ls	180,000.00	180,000		
380	SUBTOTAL					3,452,016	
TOTAL - ELECTRICAL							\$3,452,016
E10 EQUIPMENT							
E10 EQUIPMENT, GENERALLY							
389	111313 LOADING DOCK						
390	Loading dock equipment	1	ls	10,000.00	10,000		
392	111520 PROJECTION SCREENS						
393	Allowance for projection screens	1	ls	15,000.00	15,000		
395	114000 FOOD SERVICE EQUIPMENT						
396	Kitchen equipment	1	ls	300,000.00	300,000		
398	114500 APPLIANCES						
399	Residential appliances	1	ls	10,000.00	10,000		
400	Science room equipment	1	ls	120,000.00	120,000		
402	116100 THEATRICAL EQUIPMENT						
403	Theatrical & Stage Equipment (rigging system, curtains) - allowance	1	ls	250,000.00	250,000		
406	116600 ATHLETIC EQUIPMENT				See Renovation		
407	SUBTOTAL					705,000	
TOTAL - EQUIPMENT							\$705,000
E20 FURNISHINGS							



PSR Cost Estimate

GFA

96,938

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
414	E2010 FIXED FURNISHINGS						
415							
416	124813 ENTRANCE FLOOR MAT AND FRAMES						
417	Recessed entry mats & walk-off mats	1	ls	10,000.00	10,000		
418							
419	123000 CASEWORK						
420	Casework carried in specialties						
421							
422	124000 SEATING						
423	Auditorium seating	600	ea	350.00	210,000		
424							
425	122400 WINDOW TREATMENT						
426	Window treatments	15,597	sf	7.00	109,179		
427	Premium for motorized shades	1	ls	62,388.00	62,388		
428	SUBTOTAL					391,567	
429							
430	E2020 MOVABLE FURNISHINGS						
431	All movable furnishings to be provided and installed by owner						
432	SUBTOTAL						NIC
433							
434	TOTAL - FURNISHINGS						\$391,567
435							
436							
437	F10 SPECIAL CONSTRUCTION						
438							
439	F10 SPECIAL CONSTRUCTION						
440	No items in this section						
441	SUBTOTAL						
442							
443	TOTAL - SPECIAL CONSTRUCTION						
444							
445							
446	F20 SELECTIVE BUILDING DEMOLITION						
447							
448	F2010 BUILDING ELEMENTS DEMOLITION						
449	No items in this section						
450	SUBTOTAL						
451							
452	F2020 HAZARDOUS COMPONENTS ABATEMENT						
453	Removal of Asbestos Containing Materials in existing building - Included in Summary						
454	SUBTOTAL						
455							
456	TOTAL - SELECTIVE BUILDING DEMOLITION						
	SUBTOTAL OPTION B.1.1.1 ADDITION						\$ 34,621,303



PSR Cost Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
G SITEWORK							
G10 SITE PREPARATION & DEMOLITION							
<u>Site Demolitions and Relocations</u>							
	Site construction fence/barricades; visual screen	4,000	lf	20.00	80,000		
	Site construction fence gates	2	loc	15,000.00	30,000		
	Stabilized construction entrance	3,000	sf	6.00	18,000		
	Clear brush and trees, remove all stumps etc. - allow	1	ls	30,000.00	30,000		
	Temporary construction signs	1	ls	2,000.00	2,000		
	Pavement/curbing removal @ sidewalks, driveway, parking and drop-off area	130,000	sf	1.50	195,000		
	Demolish existing garage	1	ls	15,000.00	15,000		
	Misc. tree protection	1	ls	10,000.00	10,000		
	Salvage existing generator	1	ls	5,000.00	5,000		
	Salvage existing Tiger Plaza Statue	1	ls	3,000.00	3,000		
	Cut and cap existing utilities and remove and dispose of existing drainage structures and utilities - allow	1	ls	25,000.00	25,000		
	Miscellaneous site demolition - play equipment, site furnishings, remaining fences, etc.	1	ls	75,000.00	75,000		
	Strip topsoil, store	926	cy	12.00	11,112		
	SUBTOTAL					499,112	
<u>Site Earthwork</u>							
	Construction entrances/wheel washes (allowance)	1	loc	12,000.00	12,000		
	Regrading, generally	12,744	cy	10.00	127,440		
	Fine grading	20,228	sy	1.00	20,228		
	Silt fence/erosion control (allowance)	4,000	lf	12.00	48,000		
	Erosion Control monitoring & maintenance	1	ls	10,000.00	10,000		
<u>Hazardous Waste Remediation</u>							
	Removal of UST					NR	
	SUBTOTAL					217,668	
G20 SITE IMPROVEMENTS							
	Existing Parking - mill + repave/ reconfigure	50,000	sf	4.00	200,000		
	New Parking lot, Bus/Parent drop-off, Driveway	112,048	sf				
	gravel base; 12" thick	4,150	cy	40.00	166,000		
	4" bituminous concrete	12,450	sy	28.00	348,600		
	Granite curbs	6,651	lf	45.00	299,295		
	Parking lines, crosswalk markings etc.	1	ls	15,000.00	15,000		
	Parking and traffic signs	1	ls	10,000.00	10,000		
	SUBTOTAL					1,038,895	
<u>Pedestrian paving</u>							
<u>Concrete paving</u>							
	gravel base; 8" thick	285	cy	40.00	11,400		
	colored concrete paving	10,000	sf	14.00	140,000		
	Entry plaza paving; assume permeable paver on bituminous	1,500	sf	24.00	36,000		
	Dumpster/ Equipment pads	1	ls	10,000.00	10,000		
<u>Sidewalks - asphalt; allow</u>							
	gravel base; 8" thick	315	cy	40.00	12,600		
	bituminous or similar	944	cy	24.00	22,656		
	Allowance to patch ETR paving adjacent to High School	1	ls	20,000.00	20,000		
<u>Site Improvements</u>							
	Flag pole; 40 FT	1	loc	7,500.00	7,500		
	Site sign	1	ls	30,000.00	30,000		
	Shade structure	1	ls	50,000.00	50,000		
	Site improvements; site furnishings, signage, seat walls, ADA ramps & entry pads, walls, rails, fences etc.	1	ls	250,000.00	250,000		
	SUBTOTAL					590,156	



PSR Cost Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
60	Gravel drainage layer at new softball field	2,963	cy	42.00	124,446		
61	Reuse existing amended topsoil	1,481	cy	30.00	44,430		
62	Backstop	1	ls	45,000.00	45,000		
63	Benches, infield, bases, foul poles etc.	1	ls	80,000.00	80,000		
64	Fencing	1,100	lf	75.00	82,500		
65	<u>Landscaping & Plantings:</u>						
66	Soil mix; reuse amended soil from on-site spoils	926	cy	27.50	25,465		
67	Import soil for new lawn areas				NR		
68	New seeded areas - L&S	50,000	sf	0.35	17,500		
69	Allowance for plantings	1	ls	75,000.00	75,000		
70	Allowance for irrigation at softball field	80,000	sf	1.25	100,000		
71	SUBTOTAL					594,341	
72							
73	G30 CIVIL MECHANICAL UTILITIES						
74	<u>Water Service</u>						
75	New DI piping; 4" Domestic water	500	lf	75.00	37,500		
76	New DI piping; 4" Fire	500	lf	75.00	37,500		
77	Gate valves	4	ea	750.00	3,000		
78	Connect to existing	1	loc	10,000.00	10,000		
79	FD connection	1	ea	2,000.00	2,000		
80	Fire hydrant	2	ea	5,000.00	10,000		
81	<u>Sewer</u>						
82	8" PVC sewer line - allow	400	lf	60.00	24,000		
83	Manhole - allowance	4	loc	2,800.00	11,200		
83	Tight tank	1	ls	9,000.00	9,000		
84	Grease trap	1	ls	14,000.00	14,000		
85	Allowance for new lift station or ejector pump				N.R.; assume gravity connection		
86	Connect to existing	1	loc	10,000.00	10,000		
87	<u>Surface Water Drainage</u>						
88	Allowance to upgrade existing and install new storm water management infrastructure; closed drainage systems, drainage piping, structures and WQS	162,048	sf	10.00	1,620,480		
89	<u>Gas service</u>						
90	E&B trench for connection to existing gas main, pipe and install by utilities	400	lf	25.00	10,000		
91	Gas Meter				NIC		
92	SUBTOTAL					1,798,680	
93							
94							
95	G40 SITE ELECTRICAL						
96	<u>Civil</u>						
97	Concrete work for duct banks	600	lf	35.00	21,000		
98	Transformer pad / generator pad	1	ea	2,500.00	2,500		
99	Excavation & backfill for duct banks	600	lf	30.00	18,000		
100	Utility co. backcharges, allow				By Owner		
101	<u>Power & Communications</u>						
102	Primary and communications duct bank	500	lf	125.00	62,500		
103	Secondary and generator duct bank	100	lf	500.00	50,000		
104	<u>Site Lighting</u>						
105	Parking/ Roadway/Walkway lighting (allow)	162,048	sf	2.00	324,096		
106	<u>Electric Vehicle Charging Station</u>						
107	EVCS including 40A feed - allow	2	ea	10,000.00	20,000		
108	<u>Site Security</u>						
109	Access control at pass thru	1	loc	20,000.00	20,000		
110	CCTV surveillance at site				not anticipated		
111	<u>Site Demolition</u>						
112	Site demolition and make safe	1	ls	10,000.00	10,000		
113	SUBTOTAL					528,096	
114							
115							



Tyngsborough Middle School
Tyngsborough, MA

15-Jun-21

PSR Cost 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>
	SUBTOTAL SITE DEVELOPMENT						\$5,266,948

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PSR Cost Estimate

GFA

112,418

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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GROSS FLOOR AREA CALCULATION

1							
2	First Floor	67,507					
3	Second Floor	24,107					
4	Third Floor	20,804					

6	TOTAL GROSS FLOOR AREA (GFA)					112,418 sf	
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A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

033000 CONCRETE

13	Strip Footings	179	CY				
14	Foundation Walls	317	CY				
15	Spread Footings	646	CY				
16	Piers	51	CY				
17	Total Foundation Concrete	1,193	CY				

Strip footings at typical foundation wall: 3'x12" deep

19	Formwork	3,062	sf	14.00	42,868		
20	Re-bar	5,370	lbs.	2.00	10,740		
21	Concrete material	179	cy	132.00	23,628		
22	Placing concrete	179	cy	90.00	16,110		

Foundation walls: 14"-16" thick

24	Formwork	12,248	sf	18.00	220,464		
25	Re-bar	24,496	lbs.	2.00	48,992		
26	Concrete material	317	cy	132.00	41,844		
27	Placing concrete	317	cy	90.00	28,530		
28	Form shelf	1,531	lf	8.00	12,248		

Spread Footings: 9'x9'x24", typical at interior

30	Formwork	4,896	sf	16.00	78,336		
31	Re-bar	32,100	lbs.	2.00	64,200		
32	Concrete material	428	cy	132.00	56,496		
33	Placing concrete	428	cy	90.00	38,520		
34	Set anchor bolts grout plates	68	ea	150.00	10,200		

Spread Footings: exterior 6'x6'x24", typical

36	Formwork	3,744	sf	16.00	59,904		
37	Re-bar	16,350	lbs.	2.00	32,700		
38	Concrete material	218	cy	132.00	28,776		
39	Placing concrete	218	cy	90.00	19,620		
40	Set anchor bolts grout plates	78	ea	150.00	11,700		

Piers/Pilasters - allow

42	Formwork	3,504	sf	22.00	77,088		
43	Re-bar	12,750	lbs	2.00	25,500		
44	Concrete material; 3,000 psi	51	cy	132.00	6,732		
45	Placing concrete	51	cy	120.00	6,120		

070001 WATERPROOFING, DAMPPROOFING AND CAULKING

48	Dampproofing at foundation wall	9,186	sf	2.15	19,750		
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072100 THERMAL INSULATION

51	Insulation at foundation walls	6,124	sf	3.00	18,372		
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312000 EARTHWORK

Strip footings

55	Excavation	1,134	cy	14.00	15,876		
56	Remove off site	179	cy	12.00	2,148		
57	Backfill with onsite material	955	cy	16.00	15,280		

Spread footings

59	Excavation	1,469	cy	14.00	20,566		
60	Remove off site	697	cy	12.00	8,364		
61	Backfill with onsite material	772	cy	16.00	12,352		



PSR Cost Estimate

GFA

112,418

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
62	<u>Miscellaneous</u>							
63	Gravel fill beneath footings, 12"	204	cy	38.00	7,752			
64	Perimeter drainage	1,531	lf	22.00	33,682			
65	Under slab drainage	67,507	sf		assume NR			
66	Dewatering for foundation work	1	ls	30,000.00	30,000			
67	SUBTOTAL					1,145,458		
68								
69	A1020 SPECIAL FOUNDATIONS							
70	Ground improvement system; RAPS	67,507	sf	16.00	1,080,112			
71	SUBTOTAL					\$1,080,112		
72								
73	A1030 LOWEST FLOOR CONSTRUCTION							
74	033000 CONCRETE							
75	<u>New Slab on grade, 5" thick</u>							
76	Vapor barrier	67,507	sf	1.00	67,507			
77	Mesh reinforcing 15% lap	77,633	sf	1.15	89,278			
78	Concrete - 5" thick	1,103	cy	135.00	148,905			
79	Placing concrete	1,103	cy	55.00	60,665			
80	Finishing and curing concrete	67,507	sf	2.75	185,644			
81	Control joints - saw cut	67,507	sf	0.20	13,501			
82	<u>Miscellaneous</u>							
83	Elevator pit	1	ea	35,000.00	35,000			
84	Loading dock	1	ls	40,000.00	40,000			
85	Equipment pads	1	ls	20,000.00	20,000			
86								
87	072100 THERMAL INSULATION							
88	Insulation, 2"	67,507	sf	2.50	168,768			
89								
90	312000 EARTHWORK							
91	Rough and fine grade - included in site							
92	Compact sub-grade	67,507	sf	0.50	33,754			
93	Structural fill, 8"	1,668	cy	38.00	63,384			
94	Base course, 8"	1,668	cy	40.00	66,720			
95	Radon system	67,507	sf	2.00	135,014			
96	Plumbing E&B	67,507	sf	1.00	67,507			
97	SUBTOTAL					1,195,647		
98								
99	TOTAL - FOUNDATIONS						\$3,421,217	
100								
101								
102	A20 BASEMENT CONSTRUCTION							
103								
104	A2010 BASEMENT EXCAVATION							
105	No Work in this section							
106	SUBTOTAL							
107								
108	A2020 BASEMENT WALLS							
109	No Work in this section							
110	SUBTOTAL							
111								
112	TOTAL - BASEMENT CONSTRUCTION							
113								
114								
115	B10 SUPERSTRUCTURE							
116								
117	B1010 FLOOR CONSTRUCTION							
118	033000 CONCRETE							
119	Concrete on Metal Deck	736	FLOORS AND ROOF					
120	WWF reinforcement	13.1	/SF					
121	Concrete fill to metal deck; light weight, 5-1/4" thick	51,648	sf	1.25	64,560			
		728	cy	175.00	127,400			



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
122	Moisture mitigation admixture					NIC		
123	Place and finish concrete	44,911	sf	2.50	112,278			
124	Rebar to decks	13,473	lbs	2.00	26,946			
125	Allowance for beam penetrations	1	ls	50,000.00	50,000			
126								
127	051200 STRUCTURAL STEEL FRAMING							
128	Steel framing - beams/columns/bracing/girders, 13 PSF	292	tns	4,500.00	1,314,000			
129	Shear studs	9,980	ea	3.50	34,930			
130	2" Metal galvanized floor deck	44,911	sf	4.00	179,644			
131								
132	078100 FIREPROOFING/FIRESTOPPING							
133	Firestopping	44,911	sf	0.15	6,737			
134	Fireproofing	44,911	sf	2.50	112,278			
135	SUBTOTAL					2,028,773		
136								
137	B1020 ROOF CONSTRUCTION							
138								
139	033000 CONCRETE							
140	WWF reinforcement	11,500	sf	1.25	14,375			
141	Concrete fill to metal deck; light weight, 4-1/2" thick	160	cy	175.00	28,000			
142	Place and finish concrete	10,000	sf	2.50	25,000			
143	Rebar to decks	3,000	lbs	2.00	6,000			
144								
145	051200 STRUCTURAL STEEL FRAMING							
146	Typical steel framing - beams/columns/bracing/girders, 13 PSF	439	tns	4,500.00	1,975,500			
147	Premium for steel at rooftop equipment - 1lb/sf	5	tns	4,500.00	22,500			
148	3" Metal galvanized roof deck	67,507	sf	4.50	303,782			
149	Premium for acoustic deck at gym and cafetorium	14,000	sf	5.00	70,000			
150	Roof screen support; 15 PSF	18	tns	5,000.00	90,000			
151	Canopy framing	1,000	sf	30.00	30,000			
152	Expansion joints	1	ls	50,000.00	50,000			
153								
154	078100 FIREPROOFING/FIRESTOPPING							
155	Fireproofing	53,507	sf	3.00	160,521			
156	SUBTOTAL					2,775,678		
157								
158	TOTAL - SUPERSTRUCTURE							\$4,804,451
159								
160								
161	B20 EXTERIOR CLOSURE							
162								
163	B2010 EXTERIOR WALLS							
164								
165	042000 MASONRY	39,522	sf					
166	Face brick	39,522	sf	40.00	1,580,880			
167	CMU back up, 8"	2,400	sf	28.00	67,200			
168	Staging to exterior wall	56,460	sf	3.50	197,610			
169								
170	052000 MISC. METALS							
171	Miscellaneous metals	39,522	sf	1.00	39,522			
172								
173	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
174	Air and vapor barrier	39,522	sf	7.50	296,415			
175	Air/Vapor barrier at window & louver openings	8,469	lf	6.00	50,814			
176	Miscellaneous sealants	56,460	sf	0.50	28,230			
177								
178	076400 CLADDING							
179	Roof screen - allow 200 lf	2,400	sf	70.00	168,000			
180								
181	072100 THERMAL INSULATION							
182	Insulation at exterior closure	39,522	sf	6.00	237,132			



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
183	Insulation at window openings	8,469	lf	2.50	21,173			
184								
185	092900 GYPSUM BOARD ASSEMBLIES							
186	Sheathing, 5/8"	39,522	sf	3.25	128,447			
187	8" metal stud back-up	37,122	sf	12.00	445,464			
188	GWB lining	37,122	sf	3.50	129,927			
189								
190	101400 SIGNAGE							
191	Building signage, allow	1	ls	10,000.00	10,000			
192	SUBTOTAL					3,400,814		
193								
194	B2020 WINDOWS	16,938	sf					
195								
196	061000 ROUGH CARPENTRY							
197	Wood blocking at openings	8,469	lf	12.00	101,628			
198								
199	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
200	Backer rod & double sealant	8,469	lf	9.00	76,221			
201								
202	080001 WINDOWS							
203	Aluminum windows	13,550	sf	105.00	1,422,750			
204	Curtainwall; 20%	3,388	sf	120.00	406,560			
205	Sunscreens - allowance	1,000	lf	200.00	200,000			
206								
207	089000 LOUVERS							
208	Aluminum louvers - allowance	50	sf	70.00	3,500			
209	SUBTOTAL					2,210,659		
210								
211	B2030 EXTERIOR DOORS							
212								
213	061000 ROUGH CARPENTRY							
214	Wood blocking at openings	196	lf	11.00	2,156			
215								
216	079200 JOINT SEALANTS							
217	Backer rod & double sealant	196	lf	10.00	1,960			
218								
219	081110 HOLLOW METAL							
220	HM door and frame	10	leaf	850.00	8,500			
221								
222	080001 GLAZED ENTRANCES							
223	Glazed aluminum entrance doors including frame and hardware; single	2	ea	5,000.00	10,000			
224	Glazed aluminum entrance doors including frame and hardware; double	4	pr	10,000.00	40,000			
225								
226	086000 COILING DOORS							
227	Colling doors -allow	1	ea	6,500.00	6,500			
228								
229	087100 DOOR HARDWARE							
230	Hardware	10	leaf	1,600.00	16,000			
231	Auto opener at main entry vestibule	2	ea	4,000.00	8,000			
232								
233	090007 PAINTING							
234	Finish doors and frames	10	ea	200.00	2,000			
235	SUBTOTAL					95,116		
236								
237	TOTAL - EXTERIOR CLOSURE						\$5,706,589	
238								
239								
240	B30 ROOFING							
241								



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
242	B3010 ROOF COVERINGS							
243	061000 ROUGH CARPENTRY							
244	Rough blocking	6,124	lf	10.00	61,240			
246	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
247	AVB at roof perimeter	1,531	lf	8.00	12,248			
249	070002 ROOFING AND FLASHING							
251	<u>Flat Roof</u>							
252	PVC membrane roofing system; R38 insulation	67,507	sf	22.00	1,485,154			
253	Membrane to canopies	1,000	sf	12.00	12,000			
254	<u>Miscellaneous Roofing</u>							
255	Factory fabricated fascia trim/roof edge	1,531	lf	45.00	68,895			
256	Walk pads	2,000	sf	12.00	24,000			
257	Roof ladders	1	ls	5,000.00	5,000			
258	Miscellaneous flashings	67,507	sf	2.00	135,014			
259	SUBTOTAL					1,803,551		
260								
261	B3020 ROOF OPENINGS							
262	086300 ROOF SKYLIGHTS + HATCHES							
263	Skylights	200	sf	150.00	NR			
264	Auditorium smoke vents	3	ea	12,000.00	36,000			
265	Roof access hatch - allowance	2	ea	3,000.00	6,000			
266	SUBTOTAL					42,000		
267								
268								
269	TOTAL - ROOFING							\$1,845,551
270								
271								
272	C10 INTERIOR CONSTRUCTION							
273								
274	C1010 PARTITIONS							
275	Interior partitions	112,418	gsf	22.00	2,473,196			
276	Allowance for interior glazing, borrowed lites etc.	112,418	gsf	4.00	449,672			
277	SUBTOTAL					2,922,868		
278								
279	C1020 INTERIOR DOORS							
280	Allowance for all new interior doors	112,418	gsf	7.00	786,926			
281	SUBTOTAL					786,926		
282								
283	C1030 SPECIALTIES / MILLWORK							
284	Tack boards/Marker Boards	112,418	gsf	1.50	168,627			
285	IWB					FF&E		
286	Access panels	1	ls	5,000.00	5,000			
287	Fire extinguisher cabinets	37	ea	350.00	12,950			
288	Toilet partitions/accessories	112,418	gsf	2.00	224,836			
289	Allowance for all new millwork and casework package	112,418	gsf	12.00	1,349,016			
290	Lockers	112,418	gsf	1.50	168,627			
291	Signage	112,418	gsf	0.60	67,451			
292	Misc. metals	112,418	gsf	2.00	224,836			
293	Misc. sealants	112,418	gsf	1.25	140,523			
294	SUBTOTAL					2,361,866		
295								
296	TOTAL - INTERIOR CONSTRUCTION							\$6,071,660
297								
298								
299	C20 STAIRCASES							
300								
301	C2010 STAIR CONSTRUCTION							
302								



PSR Cost Estimate

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
303	033000 CONCRETE							
304	Concrete to stairs	5	flt	1,500.00	7,500			
305								
306	055000 MISCELLANEOUS METALS							
307	Lobby communication stair, level 1 to 2, including finishes	1	flt	75,000.00	75,000			
308	Egress stairs	4	flt	25,000.00	100,000			
309	SUBTOTAL					182,500		
310								
311	C2020 STAIR FINISHES							
312								
313	090005 RESILIENT FLOORS							
314	Rubber tile at egress stair	4	flt	5,000.00	20,000			
315								
316	090007 PAINTING							
317	Paint to stairs	5	flt	1,500.00	7,500			
318	SUBTOTAL					27,500		
319								
320	TOTAL - STAIRCASES							\$210,000
321								
322								
323	C30 INTERIOR FINISHES							
324								
325	C3010 WALL FINISHES							
326	Wall finishes	112,418	gsf	11.00	1,236,598			
327	Cafetorium acoustic premium	1	ls	100,000.00	100,000			
328	SUBTOTAL					1,336,598		
329								
330	C3020 FLOOR FINISHES							
331	Floor finishes throughout	112,418	gsf	9.00	1,011,762			
332	SUBTOTAL					1,011,762		
333								
334	C3030 CEILING FINISHES							
335	Ceilings throughout	112,418	gsf	10.00	1,124,180			
336	Cafetorium acoustic reflectors	1	ls	75,000.00	75,000			
337	SUBTOTAL					1,199,180		
338								
339	TOTAL - INTERIOR FINISHES							\$3,547,540
340								
341								
342	D10 CONVEYING SYSTEMS							
343								
344	D1010 ELEVATOR							
345	Elevator, 3 stop	1	ea	180,000.00	180,000			
346	SUBTOTAL					180,000		
347								
348	TOTAL - CONVEYING SYSTEMS							\$180,000
349								
350								
351	D20 PLUMBING							
352								
353	D20 PLUMBING, GENERALLY							
354	New construction includes domestic water service, hot water heating, sanitary drainage system, roof drainage system, natural gas, plumbing fixtures, and insulation	112,418	gsf	17.00	1,911,106			
355	SUBTOTAL					1,911,106		
356								
357	TOTAL - PLUMBING							\$1,911,106
358								
359								



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
D30 HVAC							
D30 HVAC, GENERALLY							
	HVAC system; full AC; water source VRF; gas fired condensing boilers; closed hybrid cooling tower; RTU's; VAV boxes, displacement system in classrooms; ATC	112,418	gsf	55.00	6,182,990		
	SUBTOTAL					6,182,990	
TOTAL - HVAC							\$6,182,990
D40 FIRE PROTECTION							
D40 FIRE PROTECTION, GENERALLY							
	New water service for fire protection				w/site		
	New fire protection system includes new double check valve assembly, wet alarm valve, electric bell, fire department connection, control valve assemblies, sprinklers, and piping	112,418	gsf	5.50	618,299		
	SUBTOTAL					618,299	
TOTAL - FIRE PROTECTION							\$618,299
D50 ELECTRICAL							
	New electrical system; complete; 2000 Amp service; 350kW Generator; LED lighting; FA, tele/Data, PA + security	112,418	gsf	32.00	3,597,376		
	<i>Auditorium premium</i>						
	Cafetorium dimming and lighting package	1	ls	50,000.00	50,000		
	Cafetorium AV Equipment	1	ls	100,000.00	100,000		
	SUBTOTAL					3,747,376	
TOTAL - ELECTRICAL							\$3,747,376
E10 EQUIPMENT							
E10 EQUIPMENT, GENERALLY							
111313	LOADING DOCK						
	Loading dock equipment	1	ls	10,000.00	10,000		
111520	PROJECTION SCREENS						
	Allowance for projection screens	1	ls	30,000.00	30,000		
114000	FOOD SERVICE EQUIPMENT						
	Kitchen equipment	1	ls	300,000.00	300,000		
114500	APPLIANCES						
	Residential appliances	1	ls	20,000.00	20,000		
	Science room equipment	1	ls	180,000.00	180,000		
116100	THEATRICAL EQUIPMENT						
	Cafetorium & Stage Equipment (rigging system, curtains) - allowance	1	ls	90,000.00	90,000		
116600	ATHLETIC EQUIPMENT						
	Scoreboard and shot clock	1	ea	15,000.00	15,000		
	Gym wall pads	1	ls	10,000.00	10,000		
	Basketball backstops; retractable	6	ea	7,600.00	45,600		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
414	Gymnasium dividing net	1	ls	20,000.00	20,000			
415	Motorized assisted telescoping gymnasium bleacher seating (200 seat)	1	ls	40,000.00	40,000			
416	SUBTOTAL					760,600		
418	TOTAL - EQUIPMENT							\$760,600
421	E20 FURNISHINGS							
423	E2010 FIXED FURNISHINGS							
425	124813 ENTRANCE FLOOR MAT AND FRAMES							
426	Recessed entry mats & walk-off mats	1	ls	15,000.00	15,000			
428	123000 CASEWORK							
429	Casework carried in specialties							
431	124000 SEATING							
432	Auditorium seating	600	ea	350.00	NR			
434	122400 WINDOW TREATMENT							
435	Window treatments	16,938	sf	7.00	118,566			
436	Premium for motorized shades	1	ls	67,752.00	67,752			
437	SUBTOTAL					201,318		
439	E2020 MOVABLE FURNISHINGS							
440	All movable furnishings to be provided and installed by owner							
441	SUBTOTAL						NIC	
443	TOTAL - FURNISHINGS							\$201,318
446	F10 SPECIAL CONSTRUCTION							
448	F10 SPECIAL CONSTRUCTION							
449	No items in this section							
450	SUBTOTAL							
452	TOTAL - SPECIAL CONSTRUCTION							
455	F20 SELECTIVE BUILDING DEMOLITION							
457	F2010 BUILDING ELEMENTS DEMOLITION							
458	No items in this section							
459	SUBTOTAL							
461	F2020 HAZARDOUS COMPONENTS ABATEMENT							
462	Removal of Asbestos Containing Materials in existing building - Included in Summary							
463	SUBTOTAL							
465	TOTAL - SELECTIVE BUILDING DEMOLITION							

SUBTOTAL OPTION D.2.1.1 NEW SCHOOL

\$ 39,208,697



PSR Cost Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
G SITEWORK							
G10 SITE PREPARATION & DEMOLITION							
<u>Site Demolitions and Relocations</u>							
	Site construction fence/barricades; visual screen	4,000	lf	20.00	80,000		
	Site construction fence gates	2	loc	15,000.00	30,000		
	Stabilized construction entrance	3,000	sf	6.00	18,000		
	Clear brush and trees, remove all stumps etc. - allow	1	ls	30,000.00	30,000		
	Temporary construction signs	1	ls	2,000.00	2,000		
	Pavement/curbing removal @ sidewalks, driveway, parking and drop-off area	130,000	sf	1.50	195,000		
	Demolish existing garage	1	ls	15,000.00	15,000		
	Misc. tree protection	1	ls	10,000.00	10,000		
	Salvage existing generator	1	ls	5,000.00	5,000		
	Salvage existing Tiger Plaza Statue	1	ls	3,000.00	3,000		
	Cut and cap existing utilities and remove and dispose of existing drainage structures and utilities - allow	1	ls	25,000.00	25,000		
	Miscellaneous site demolition - play equipment, site furnishings, remaining fences, etc.	1	ls	75,000.00	75,000		
	Strip topsoil, store	926	cy	12.00	11,112		
	SUBTOTAL					499,112	
<u>Site Earthwork</u>							
	Construction entrances/wheel washes (allowance)	1	loc	12,000.00	12,000		
	Regrading, generally	12,744	cy	10.00	127,440		
	Fine grading	20,228	sy	1.00	20,228		
	Silt fence/erosion control (allowance)	4,000	lf	12.00	48,000		
	Erosion Control monitoring & maintenance	1	ls	10,000.00	10,000		
<u>Hazardous Waste Remediation</u>							
	Removal of UST					NR	
	SUBTOTAL					217,668	
G20 SITE IMPROVEMENTS							
	Existing Parking - mill + repave/ reconfigure	50,000	sf	4.00	NR		
	<i>New Parking lot, Bus/Parent drop-off, Driveway</i>	112,048	sf				
	gravel base; 12" thick	4,150	cy	40.00	166,000		
	4" bituminous concrete	12,450	sy	28.00	348,600		
	Granite curbs	6,651	lf	45.00	299,295		
	Parking lines, crosswalk markings etc.	1	ls	15,000.00	15,000		
	Parking and traffic signs	1	ls	10,000.00	10,000		
	<i>H2o Loaded Pavement</i>	10,573	sf				
	gravel base; 24" thick	783	cy	40.00	31,320		
	5" bituminous concrete	1,175	sy	32.00	37,600		
	Granite curbs	679	lf	45.00	30,555		
	SUBTOTAL					938,370	
<u>Pedestrian paving</u>							
<u>Concrete paving</u>							
	gravel base; 8" thick	285	cy	40.00	11,400		
	colored concrete paving	10,000	sf	14.00	140,000		
	Entry plaza paving; assume permeable paver on bituminous	1,500	sf	24.00	36,000		
	Dumpster/ Equipment pads	1	ls	10,000.00	10,000		
<u>Sidewalks - asphalt; allow</u>							
	gravel base; 8" thick	315	cy	40.00	12,600		
	bituminous or similar	944	cy	24.00	22,656		
	Allowance to patch ETR paving adjacent to High School	1	ls	20,000.00	20,000		
<u>Site Improvements</u>							
	Flag pole; 40 FT	1	loc	7,500.00	7,500		
	Site sign	1	ls	30,000.00	30,000		
	Shade structure	1	ls	50,000.00	50,000		



PSR Cost Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
61	Site improvements; site furnishings, signage, seat walls, ADA ramps & entry pads, walls, rails, fences etc.	1	ls	250,000.00	250,000		
62	SUBTOTAL					590,156	
63							
64	Gravel drainage layer at new softball field	2,963	cy	42.00	124,446		
65	Reuse existing amended topsoil	1,481	cy	30.00	44,430		
66	Backstop	1	ls	45,000.00	45,000		
67	Benches, infield, bases, foul poles etc.	1	ls	80,000.00	80,000		
68	Fencing	1,100	lf	75.00	82,500		
69	<u>Landscaping & Plantings:</u>						
70	Soil mix; reuse amended soil from on-site spoils	926	cy	27.50	25,465		
71	Import soil for new lawn areas				NR		
72	New seeded areas - L&S	50,000	sf	0.35	17,500		
73	Allowance for plantings	1	ls	75,000.00	75,000		
74	Allowance for irrigation at softball field	80,000	sf	1.25	100,000		
75	SUBTOTAL					594,341	
76							
77	G30 CIVIL MECHANICAL UTILITIES						
78	<u>Water Service</u>						
79	New DI piping; 4" Domestic water	500	lf	75.00	37,500		
80	New DI piping; 4" Fire	500	lf	75.00	37,500		
81	Gate valves	4	ea	750.00	3,000		
82	Connect to existing	1	loc	10,000.00	10,000		
83	FD connection	1	ea	2,000.00	2,000		
84	Fire hydrant	2	ea	5,000.00	10,000		
85	<u>Sewer</u>						
86	8" PVC sewer line - allow	400	lf	60.00	24,000		
87	Manhole - allowance	4	loc	2,800.00	11,200		
87	Tight tank	1	ls	9,000.00	9,000		
88	Grease trap	1	ls	14,000.00	14,000		
89	Allowance for new lift station or ejector pump				N.R.; assume gravity connection		
90	Connect to existing	1	loc	10,000.00	10,000		
91	<u>Surface Water Drainage</u>						
92	Allowance to upgrade existing and install new storm water management infrastructure; closed drainage systems, drainage piping, structures and WQS	112,048	sf	10.00	1,120,480		
93	<u>Gas service</u>						
94	E&B trench for connection to existing gas main, pipe and install by utilities	400	lf	25.00	10,000		
95	Gas Meter				NIC		
96	SUBTOTAL					1,298,680	
97							
98							
99	G40 SITE ELECTRICAL						
100	<u>Civil</u>						
101	Concrete work for duct banks	600	lf	35.00	21,000		
102	Transformer pad / generator pad	1	ea	2,500.00	2,500		
103	Excavation & backfill for duct banks	600	lf	30.00	18,000		
104	Utility co. backcharges, allow					By Owner	
105	<u>Power & Communications</u>						
106	Primary and communications duct bank	500	lf	125.00	62,500		
107	Secondary and generator duct bank	100	lf	500.00	50,000		
108	<u>Site Lighting</u>						
109	Parking/ Roadway/Walkway lighting (allow)	112,048	sf	2.00	224,096		
110	<u>Electric Vehicle Charging Station</u>						
111	EVCS including 40A feed - allow	2	ea	10,000.00	20,000		
112	<u>Site Security</u>						
113	Access control at pass thru	1	loc	20,000.00	20,000		
114	CCTV surveillance at site				not anticipated		
115	<u>Site Demolition</u>						



Tyngsborough Middle School
Tyngsborough, MA

15-Jun-21

PSR Cost 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>
	Site demolition and make safe	1	ls	10,000.00	10,000		
	SUBTOTAL					428,096	
	SUBTOTAL SITE DEVELOPMENT						\$4,566,423

116
117
118
119
120



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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GROSS FLOOR AREA CALCULATION

First Floor	66,540
Second Floor	45,878

TOTAL GROSS FLOOR AREA (GFA)					112,418 sf
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A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

033000 CONCRETE

Strip Footings	198	CY
Foundation Walls	350	CY
Spread Footings	640	CY
Piers	49	CY
Total Foundation Concrete		1,237 CY

Strip footings at typical foundation wall: 3'x12" deep

Formwork	3,386	sf	14.00	47,404
Re-bar	5,940	lbs.	2.00	11,880
Concrete material	198	cy	132.00	26,136
Placing concrete	198	cy	90.00	17,820

Foundation walls: 14"-16" thick

Formwork	13,544	sf	18.00	243,792
Re-bar	27,088	lbs.	2.00	54,176
Concrete material	350	cy	132.00	46,200
Placing concrete	350	cy	90.00	31,500
Form shelf	1,693	lf	8.00	13,544

Spread Footings: 9'x9'x24", typical at interior

Formwork	5,040	sf	16.00	80,640
Re-bar	33,075	lbs.	2.00	66,150
Concrete material	441	cy	132.00	58,212
Placing concrete	441	cy	90.00	39,690
Set anchor bolts grout plates	70	ea	150.00	10,500

Spread Footings: exterior 6'x6'x24", typical

Formwork	3,408	sf	16.00	54,528
Re-bar	14,925	lbs.	2.00	29,850
Concrete material	199	cy	132.00	26,268
Placing concrete	199	cy	90.00	17,910
Set anchor bolts grout plates	71	ea	150.00	10,650

Piers/Pilasters - allow

Formwork	3,384	sf	22.00	74,448
Re-bar	12,250	lbs	2.00	24,500
Concrete material; 3,000 psi	49	cy	132.00	6,468
Placing concrete	49	cy	120.00	5,880

070001 WATERPROOFING, DAMPPROOFING AND CAULKING

Dampproofing at foundation wall	10,158	sf	2.15	21,840
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072100 THERMAL INSULATION

Insulation at foundation walls	6,772	sf	3.00	20,316
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312000 EARTHWORK

Strip footings

Excavation	1,254	cy	14.00	17,556
Remove off site	198	cy	12.00	2,376
Backfill with onsite material	1,056	cy	16.00	16,896

Spread footings

Excavation	1,446	cy	14.00	20,244
Remove off site	689	cy	12.00	8,268
Backfill with onsite material	757	cy	16.00	12,112



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
62	<u>Miscellaneous</u>							
63	Gravel fill beneath footings, 12"	210	cy	38.00	7,980			
64	Perimeter drainage	1,693	lf	22.00	37,246			
65	Under slab drainage	66,540	sf		assume NR			
66	Dewatering for foundation work	1	ls	30,000.00	30,000			
67	SUBTOTAL					1,192,980		
68								
69	A1020 SPECIAL FOUNDATIONS							
70	Ground improvement system; RAPS	66,540	sf	16.00	1,064,640			
71	SUBTOTAL					\$1,064,640		
72								
73	A1030 LOWEST FLOOR CONSTRUCTION							
74	033000 CONCRETE							
75	<u>New Slab on grade, 5" thick</u>							
76	Vapor barrier	66,540	sf	1.00	66,540			
77	Mesh reinforcing 15% lap	76,521	sf	1.15	87,999			
78	Concrete - 5" thick	1,087	cy	135.00	146,745			
79	Placing concrete	1,087	cy	55.00	59,785			
80	Finishing and curing concrete	66,540	sf	2.75	182,985			
81	Control joints - saw cut	66,540	sf	0.20	13,308			
82	<u>Miscellaneous</u>							
83	Elevator pit	1	ea	35,000.00	35,000			
84	Loading dock	1	ls	40,000.00	40,000			
85	Equipment pads	1	ls	20,000.00	20,000			
86								
87	072100 THERMAL INSULATION							
88	Insulation, 2"	66,540	sf	2.50	166,350			
89								
90	312000 EARTHWORK							
91	Rough and fine grade - included in site							
92	Compact sub-grade	66,540	sf	0.50	33,270			
93	Structural fill, 8"	1,644	cy	38.00	62,472			
94	Base course, 8"	1,644	cy	40.00	65,760			
95	Radon system	66,540	sf	2.00	133,080			
96	Plumbing E&B	66,540	sf	1.00	66,540			
97	SUBTOTAL					1,179,834		
98								
99	TOTAL - FOUNDATIONS							\$3,437,454
100								
101								
102	A20 BASEMENT CONSTRUCTION							
103								
104	A2010 BASEMENT EXCAVATION							
105	No Work in this section							
106	SUBTOTAL							
107								
108	A2020 BASEMENT WALLS							
109	No Work in this section							
110	SUBTOTAL							
111								
112	TOTAL - BASEMENT CONSTRUCTION							
113								
114								
115	B10 SUPERSTRUCTURE							
116								
117	B1010 FLOOR CONSTRUCTION							
118	033000 CONCRETE							
119	Concrete on Metal Deck	736	FLOORS AND ROOF					
120	WWF reinforcement	13.1	/SF					
121	Concrete fill to metal deck; light weight, 5-1/4" thick	52,760	sf	1.25	65,950			
122		743	cy	175.00	130,025			



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
122	Moisture mitigation admixture					NIC		
123	Place and finish concrete	45,878	sf	2.50	114,695			
124	Rebar to decks	13,763	lbs	2.00	27,526			
125	Allowance for beam penetrations	1	ls	50,000.00	50,000			
126								
127	051200 STRUCTURAL STEEL FRAMING							
128	Steel framing - beams/columns/bracing/girders, 13 PSF	298	tns	4,500.00	1,341,000			
129	Shear studs	10,195	ea	3.50	35,683			
130	2" Metal galvanized floor deck	45,878	sf	4.00	183,512			
131								
132	078100 FIREPROOFING/FIRESTOPPING							
133	Firestopping	45,878	sf	0.15	6,882			
134	Fireproofing	45,878	sf	2.50	114,695			
135	SUBTOTAL					2,069,968		
136								
137	B1020 ROOF CONSTRUCTION							
138								
139	033000 CONCRETE							
140	WWF reinforcement	11,500	sf	1.25	14,375			
141	Concrete fill to metal deck; light weight, 4-1/2" thick	160	cy	175.00	28,000			
142	Place and finish concrete	10,000	sf	2.50	25,000			
143	Rebar to decks	3,000	lbs	2.00	6,000			
144								
145	051200 STRUCTURAL STEEL FRAMING							
146	Typical steel framing - beams/columns/bracing/girders, 13 PSF	433	tns	4,500.00	1,948,500			
147	Premium for steel at rooftop equipment - 1lb/sf	5	tns	4,500.00	22,500			
148	3" Metal galvanized roof deck	66,540	sf	4.50	299,430			
149	Premium for acoustic deck at gym and cafetorium	14,000	sf	5.00	70,000			
150	Roof screen support; 15 PSF	18	tns	5,000.00	90,000			
151	Canopy framing	1,000	sf	30.00	30,000			
152	Expansion joints	1	ls	50,000.00	50,000			
153								
154	078100 FIREPROOFING/FIRESTOPPING							
155	Fireproofing	52,540	sf	3.00	157,620			
156	SUBTOTAL					2,741,425		
157								
158	TOTAL - SUPERSTRUCTURE							\$4,811,393
159								
160								
161	B20 EXTERIOR CLOSURE							
162								
163	B2010 EXTERIOR WALLS							
164								
165	042000 MASONRY	35,553	sf					
166	Face brick	35,553	sf	40.00	1,422,120			
167	CMU back up, 8"	2,400	sf	28.00	67,200			
168	Staging to exterior wall	50,790	sf	3.50	177,765			
169								
170	052000 MISC. METALS							
171	Miscellaneous metals	35,553	sf	1.00	35,553			
172								
173	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
174	Air and vapor barrier	35,553	sf	7.50	266,648			
175	Air/Vapor barrier at window & louver openings	7,619	lf	6.00	45,714			
176	Miscellaneous sealants	50,790	sf	0.50	25,395			
177								
178	076400 CLADDING							
179	Roof screen - allow 200 lf	2,400	sf	70.00	168,000			
180								
181	072100 THERMAL INSULATION							
182	Insulation at exterior closure	35,553	sf	6.00	213,318			



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
183	Insulation at window openings	7,619	lf	2.50	19,048			
184								
185	092900 GYPSUM BOARD ASSEMBLIES							
186	Sheathing, 5/8"	35,553	sf	3.25	115,547			
187	8" metal stud back-up	33,453	sf	12.00	397,836			
188	GWB lining	33,453	sf	3.50	116,036			
189								
190	101400 SIGNAGE							
191	Building signage, allow	1	ls	10,000.00	10,000			
192	SUBTOTAL					3,080,180		
193								
194	B2020 WINDOWS	15,237	sf					
195								
196	061000 ROUGH CARPENTRY							
197	Wood blocking at openings	7,619	lf	12.00	91,428			
198								
199	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
200	Backer rod & double sealant	7,619	lf	9.00	68,571			
201								
202	080001 WINDOWS							
203	Aluminum windows	12,190	sf	105.00	1,279,950			
204	Curtainwall; 20%	3,047	sf	120.00	365,640			
205	Sunscreens - allowance	1,000	lf	200.00	200,000			
206								
207	089000 LOUVERS							
208	Aluminum louvers - allowance	50	sf	70.00	3,500			
209	SUBTOTAL					2,009,089		
210								
211	B2030 EXTERIOR DOORS							
212								
213	061000 ROUGH CARPENTRY							
214	Wood blocking at openings	196	lf	11.00	2,156			
215								
216	079200 JOINT SEALANTS							
217	Backer rod & double sealant	196	lf	10.00	1,960			
218								
219	081110 HOLLOW METAL							
220	HM door and frame	10	leaf	850.00	8,500			
221								
222	080001 GLAZED ENTRANCES							
223	Glazed aluminum entrance doors including frame and hardware; single	2	ea	5,000.00	10,000			
224	Glazed aluminum entrance doors including frame and hardware; double	4	pr	10,000.00	40,000			
225								
226	086000 COILING DOORS							
227	Colling doors -allow	1	ea	6,500.00	6,500			
228								
229	087100 DOOR HARDWARE							
230	Hardware	10	leaf	1,600.00	16,000			
231	Auto opener at main entry vestibule	2	ea	4,000.00	8,000			
232								
233	090007 PAINTING							
234	Finish doors and frames	10	ea	200.00	2,000			
235	SUBTOTAL					95,116		
236								
237	TOTAL - EXTERIOR CLOSURE						\$5,184,385	
238								
239								
240	B30 ROOFING							
241								



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
242	B3010 ROOF COVERINGS							
243	061000 ROUGH CARPENTRY							
244	Rough blocking	6,772	lf	10.00	67,720			
246	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
247	AVB at roof perimeter	1,693	lf	8.00	13,544			
249	070002 ROOFING AND FLASHING							
251	<u>Flat Roof</u>							
252	PVC membrane roofing system; R38 insulation	66,540	sf	22.00	1,463,880			
253	Membrane to canopies	1,000	sf	12.00	12,000			
254	<u>Miscellaneous Roofing</u>							
255	Factory fabricated fascia trim/roof edge	1,693	lf	45.00	76,185			
256	Walk pads	2,000	sf	12.00	24,000			
257	Roof ladders	1	ls	5,000.00	5,000			
258	Miscellaneous flashings	66,540	sf	2.00	133,080			
259	SUBTOTAL					1,795,409		
260								
261	B3020 ROOF OPENINGS							
262	086300 ROOF SKYLIGHTS + HATCHES							
263	Skylights	200	sf	150.00	NR			
264	Auditorium smoke vents	3	ea	12,000.00	36,000			
265	Roof access hatch - allowance	2	ea	3,000.00	6,000			
266	SUBTOTAL					42,000		
267								
268								
269	TOTAL - ROOFING							\$1,837,409
270								
271								
272	C10 INTERIOR CONSTRUCTION							
273								
274	C1010 PARTITIONS							
275	Interior partitions	112,418	gsf	22.00	2,473,196			
276	Allowance for interior glazing, borrowed lites etc.	112,418	gsf	4.00	449,672			
277	SUBTOTAL					2,922,868		
278								
279	C1020 INTERIOR DOORS							
280	Allowance for all new interior doors	112,418	gsf	7.00	786,926			
281	SUBTOTAL					786,926		
282								
283	C1030 SPECIALTIES / MILLWORK							
284	Tack boards/Marker Boards	112,418	gsf	1.50	168,627			
285	IWB					FF&E		
286	Access panels	1	ls	5,000.00	5,000			
287	Fire extinguisher cabinets	37	ea	350.00	12,950			
288	Toilet partitions/accessories	112,418	gsf	2.00	224,836			
289	Allowance for all new millwork and casework package	112,418	gsf	12.00	1,349,016			
290	Lockers	112,418	gsf	1.50	168,627			
291	Signage	112,418	gsf	0.60	67,451			
292	Misc. metals	112,418	gsf	2.00	224,836			
293	Misc. sealants	112,418	gsf	1.25	140,523			
294	SUBTOTAL					2,361,866		
295								
296	TOTAL - INTERIOR CONSTRUCTION							\$6,071,660
297								
298								
299	C20 STAIRCASES							
300								
301	C2010 STAIR CONSTRUCTION							
302								



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
303	033000 CONCRETE							
304	Concrete to stairs	3	flt	1,500.00	4,500			
305								
306	055000 MISCELLANEOUS METALS							
307	Lobby communication stair, level 1 to 2, including finishes	1	flt	75,000.00	75,000			
308	Egress stairs	2	flt	25,000.00	50,000			
309	SUBTOTAL					129,500		
310								
311	C2020 STAIR FINISHES							
312								
313	090005 RESILIENT FLOORS							
314	Rubber tile at egress stair	2	flt	5,000.00	10,000			
315								
316	090007 PAINTING							
317	Paint to stairs	3	flt	1,500.00	4,500			
318	SUBTOTAL					14,500		
319								
320	TOTAL - STAIRCASES							\$144,000
321								
322								
323	C30 INTERIOR FINISHES							
324								
325	C3010 WALL FINISHES							
326	Wall finishes	112,418	gsf	11.00	1,236,598			
327	Cafetorium acoustic premium	1	ls	100,000.00	100,000			
328	SUBTOTAL					1,336,598		
329								
330	C3020 FLOOR FINISHES							
331	Floor finishes throughout	112,418	gsf	9.00	1,011,762			
332	SUBTOTAL					1,011,762		
333								
334	C3030 CEILING FINISHES							
335	Ceilings throughout	112,418	gsf	10.00	1,124,180			
336	Cafetorium acoustic reflectors	1	ls	75,000.00	75,000			
337	SUBTOTAL					1,199,180		
338								
339	TOTAL - INTERIOR FINISHES							\$3,547,540
340								
341								
342	D10 CONVEYING SYSTEMS							
343								
344	D1010 ELEVATOR							
345	Elevator, 2 stop	1	ea	150,000.00	150,000			
346	SUBTOTAL					150,000		
347								
348	TOTAL - CONVEYING SYSTEMS							\$150,000
349								
350								
351	D20 PLUMBING							
352								
353	D20 PLUMBING, GENERALLY							
354	New construction includes domestic water service, hot water heating, sanitary drainage system, roof drainage system, natural gas, plumbing fixtures, and insulation	112,418	gsf	17.00	1,911,106			
355	SUBTOTAL					1,911,106		
356								
357	TOTAL - PLUMBING							\$1,911,106
358								
359								



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
360	D30 HVAC						
361							
362	D30 HVAC, GENERALLY						
363	HVAC system; full AC; water source VRF; gas fired condensing boilers; closed hybrid cooling tower; RTU's; VAV boxes, displacement system in classrooms; ATC	112,418	gsf	55.00	6,182,990		
364	SUBTOTAL					6,182,990	
365							
366	TOTAL - HVAC						\$6,182,990
367							
368							
369	D40 FIRE PROTECTION						
370							
371	D40 FIRE PROTECTION, GENERALLY						
372	New water service for fire protection				w/site		
373	New fire protection system includes new double check valve assembly, wet alarm valve, electric bell, fire department connection, control valve assemblies, sprinklers, and piping	112,418	gsf	5.50	618,299		
374	SUBTOTAL					618,299	
375							
376	TOTAL - FIRE PROTECTION						\$618,299
377							
378							
379	D50 ELECTRICAL						
380							
381	New electrical system; complete; 2000 Amp service; 350kW Generator; LED lighting; FA, tele/Data, PA + security	112,418	gsf	32.00	3,597,376		
382	<i>Auditorium premium</i>						
383	Cafetorium dimming and lighting package	1	ls	50,000.00	50,000		
384	Cafetorium AV Equipment	1	ls	100,000.00	100,000		
385	SUBTOTAL					3,747,376	
386							
387	TOTAL - ELECTRICAL						\$3,747,376
388							
389							
390	E10 EQUIPMENT						
391							
392	E10 EQUIPMENT, GENERALLY						
393							
394	111313 LOADING DOCK						
395	Loading dock equipment	1	ls	10,000.00	10,000		
396							
397	111520 PROJECTION SCREENS						
398	Allowance for projection screens	1	ls	30,000.00	30,000		
399							
400	114000 FOOD SERVICE EQUIPMENT						
401	Kitchen equipment	1	ls	300,000.00	300,000		
402							
403	114500 APPLIANCES						
404	Residential appliances	1	ls	20,000.00	20,000		
405	Science room equipment	1	ls	180,000.00	180,000		
406							
407	116100 THEATRICAL EQUIPMENT						
408	Cafetorium & Stage Equipment (rigging system, curtains) - allowance	1	ls	90,000.00	90,000		
409							
410	116600 ATHLETIC EQUIPMENT						
411	Scoreboard and shot clock	1	ea	15,000.00	15,000		
412	Gym wall pads	1	ls	10,000.00	10,000		
413	Basketball backstops; retractable	6	ea	7,600.00	45,600		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
414	Gymnasium dividing net	1	ls	20,000.00	20,000			
415	Motorized assisted telescoping gymnasium bleacher seating (200 seat)	1	ls	40,000.00	40,000			
416	SUBTOTAL					760,600		
418	TOTAL - EQUIPMENT							\$760,600
421	E20 FURNISHINGS							
423	E2010 FIXED FURNISHINGS							
425	124813 ENTRANCE FLOOR MAT AND FRAMES							
426	Recessed entry mats & walk-off mats	1	ls	15,000.00	15,000			
428	123000 CASEWORK							
429	Casework carried in specialties							
431	124000 SEATING							
432	Auditorium seating	600	ea	350.00	NR			
434	122400 WINDOW TREATMENT							
435	Window treatments	15,237	sf	7.00	106,659			
436	Premium for motorized shades	1	ls	60,948.00	60,948			
437	SUBTOTAL					182,607		
439	E2020 MOVABLE FURNISHINGS							
440	All movable furnishings to be provided and installed by owner							
441	SUBTOTAL						NIC	
443	TOTAL - FURNISHINGS							\$182,607
446	F10 SPECIAL CONSTRUCTION							
448	F10 SPECIAL CONSTRUCTION							
449	No items in this section							
450	SUBTOTAL							
452	TOTAL - SPECIAL CONSTRUCTION							
455	F20 SELECTIVE BUILDING DEMOLITION							
457	F2010 BUILDING ELEMENTS DEMOLITION							
458	No items in this section							
459	SUBTOTAL							
461	F2020 HAZARDOUS COMPONENTS ABATEMENT							
462	Removal of Asbestos Containing Materials in existing building - Included in Summary							
463	SUBTOTAL							
465	TOTAL - SELECTIVE BUILDING DEMOLITION							

SUBTOTAL OPTION D.2.1.2 NEW SCHOOL

\$ 38,586,819



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
G SITEWORK							
G10 SITE PREPARATION & DEMOLITION							
<u>Site Demolitions and Relocations</u>							
	Site construction fence/barricades; visual screen	4,000	lf	20.00	80,000		
	Site construction fence gates	2	loc	15,000.00	30,000		
	Stabilized construction entrance	3,000	sf	6.00	18,000		
	Clear brush and trees, remove all stumps etc. - allow	1	ls	30,000.00	30,000		
	Temporary construction signs	1	ls	2,000.00	2,000		
	Pavement/curbing removal @ sidewalks, driveway, parking and drop-off area	130,000	sf	1.50	195,000		
	Demolish existing garage	1	ls	15,000.00	15,000		
	Misc. tree protection	1	ls	10,000.00	10,000		
	Salvage existing generator	1	ls	5,000.00	5,000		
	Salvage existing Tiger Plaza Statue	1	ls	3,000.00	3,000		
	Cut and cap existing utilities and remove and dispose of existing drainage structures and utilities - allow	1	ls	25,000.00	25,000		
	Miscellaneous site demolition - play equipment, site furnishings, remaining fences, etc.	1	ls	75,000.00	75,000		
	Strip topsoil, store	926	cy	12.00	11,112		
	SUBTOTAL					499,112	
<u>Site Earthwork</u>							
	Construction entrances/wheel washes (allowance)	1	loc	12,000.00	12,000		
	Regrading, generally	13,048	cy	10.00	130,480		
	Fine grading	20,683	sy	1.00	20,683		
	Silt fence/erosion control (allowance)	4,000	lf	12.00	48,000		
	Erosion Control monitoring & maintenance	1	ls	10,000.00	10,000		
<u>Hazardous Waste Remediation</u>							
	Removal of UST					NR	
	SUBTOTAL					221,163	
G20 SITE IMPROVEMENTS							
	Existing Parking - mill + repave/ reconfigure	50,000	sf	4.00	NR		
	<i>New Parking lot, Bus/Parent drop-off, Driveway</i>	116,148	sf				
	gravel base; 12" thick	4,302	cy	40.00	172,080		
	4" bituminous concrete	12,905	sy	28.00	361,340		
	Granite curbs	6,651	lf	45.00	299,295		
	<i>H2o Loaded Pavement</i>	10,573	sf				
	gravel base; 24" thick	783	cy	40.00	31,320		
	5" bituminous concrete	1,175	sy	32.00	37,600		
	Granite curbs	679	lf	45.00	30,555		
	Parking lines, crosswalk markings etc.	1	ls	15,000.00	15,000		
	Parking and traffic signs	1	ls	10,000.00	10,000		
	SUBTOTAL					957,190	
<u>Pedestrian paving</u>							
<u>Concrete paving</u>							
	gravel base; 8" thick	285	cy	40.00	11,400		
	colored concrete paving	10,000	sf	14.00	140,000		
	Entry plaza paving; assume permeable paver on bituminous	1,500	sf	24.00	36,000		
	Dumpster/ Equipment pads	1	ls	10,000.00	10,000		
<u>Sidewalks - asphalt; allow</u>							
	gravel base; 8" thick	315	cy	40.00	12,600		
	bituminous or similar	944	cy	24.00	22,656		
	Allowance to patch ETR paving adjacent to High School	1	ls	20,000.00	20,000		
<u>Site Improvements</u>							
	Landscape retaining wall; CIP; 6ft H	107	lf	950.00	101,650		
	Flag pole; 40 FT	1	loc	7,500.00	7,500		
	Site sign	1	ls	30,000.00	30,000		



PSR Cost Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
57	Shade structure	1	ls	50,000.00	50,000		
58	Site improvements; site furnishings, signage, seat walls, ADA ramps & entry pads, walls, rails, fences etc.	1	ls	250,000.00	250,000		
59	SUBTOTAL					691,806	
60							
61	Gravel drainage layer at new softball field	2,963	cy	42.00	124,446		
62	Reuse existing amended topsoil	1,481	cy	30.00	44,430		
63	Backstop	1	ls	45,000.00	45,000		
64	Benches, infield, bases, foul poles etc.	1	ls	80,000.00	80,000		
65	Fencing	1,100	lf	75.00	82,500		
66	<u>Landscaping & Plantings:</u>						
67	Soil mix; reuse amended soil from on-site spoils	926	cy	27.50	25,465		
68	Import soil for new lawn areas				NR		
69	New seeded areas - L&S	50,000	sf	0.35	17,500		
70	Allowance for plantings	1	ls	75,000.00	75,000		
71	Allowance for irrigation at softball field	80,000	sf	1.25	100,000		
72	SUBTOTAL					594,341	
73							
74	G30 CIVIL MECHANICAL UTILITIES						
75	<u>Water Service</u>						
76	New DI piping; 4" Domestic water	500	lf	75.00	37,500		
77	New DI piping; 4" Fire	500	lf	75.00	37,500		
78	Gate valves	4	ea	750.00	3,000		
79	Connect to existing	1	loc	10,000.00	10,000		
80	FD connection	1	ea	2,000.00	2,000		
81	Fire hydrant	2	ea	5,000.00	10,000		
82	<u>Sewer</u>						
83	8" PVC sewer line - allow	400	lf	60.00	24,000		
84	Manhole - allowance	4	loc	2,800.00	11,200		
84	Tight tank	1	ls	9,000.00	9,000		
85	Grease trap	1	ls	14,000.00	14,000		
86	Allowance for new lift station or ejector pump				N.R.; assume gravity connection		
87	Connect to existing	1	loc	10,000.00	10,000		
88	<u>Surface Water Drainage</u>						
89	Allowance to upgrade existing and install new storm water management infrastructure; closed drainage systems, drainage piping, structures and WQS	116,148	sf	10.00	1,161,480		
90	<u>Gas service</u>						
91	E&B trench for connection to existing gas main, pipe and install by utilities	400	lf	25.00	10,000		
92	Gas Meter				NIC		
93	SUBTOTAL					1,339,680	
94							
95							
96	G40 SITE ELECTRICAL						
97	<u>Civil</u>						
98	Concrete work for duct banks	600	lf	35.00	21,000		
99	Transformer pad / generator pad	1	ea	2,500.00	2,500		
100	Excavation & backfill for duct banks	600	lf	30.00	18,000		
101	Utility co. backcharges, allow				By Owner		
102	<u>Power & Communications</u>						
103	Primary and communications duct bank	500	lf	125.00	62,500		
104	Secondary and generator duct bank	100	lf	500.00	50,000		
105	<u>Site Lighting</u>						
106	Parking/ Roadway/Walkway lighting (allow)	116,148	sf	2.00	232,296		
107	<u>Electric Vehicle Charging Station</u>						
108	EVCS including 40A feed - allow	2	ea	10,000.00	20,000		
109	<u>Site Security</u>						
110	Access control at pass thru	1	loc	20,000.00	20,000		
111	CCTV surveillance at site				not anticipated		



PSR Cost 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>
112	<u>Site Demolition</u>						
113	Site demolition and make safe	1	ls	10,000.00	10,000		
114	SUBTOTAL					436,296	
115							
116							
117	SUBTOTAL SITE DEVELOPMENT						\$4,739,588



PSR Cost Estimate

GFA

112,418

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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GROSS FLOOR AREA CALCULATION

1							
2	First Floor	72,627					
3	Second Floor	39,791					
4							
5							
6							
7							
8							

TOTAL GROSS FLOOR AREA (GFA)						112,418 sf	
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A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

033000 CONCRETE

13	Strip Footings	217	CY				
14	Foundation Walls	385	CY				
15	Spread Footings	706	CY				
16	Piers	55	CY				
17	Total Foundation Concrete	1,363	CY				
18	<u>Strip footings at typical foundation wall: 3'x12" deep</u>						
19	Formwork	3,722	sf	14.00	52,108		
20	Re-bar	6,510	lbs.	2.00	13,020		
21	Concrete material	217	cy	132.00	28,644		
22	Placing concrete	217	cy	90.00	19,530		
23	<u>Foundation walls: 14"-16" thick</u>						
24	Formwork	14,888	sf	18.00	267,984		
25	Re-bar	29,776	lbs.	2.00	59,552		
26	Concrete material	385	cy	132.00	50,820		
27	Placing concrete	385	cy	90.00	34,650		
28	Form shelf	1,861	lf	8.00	14,888		
29	<u>Spread Footings: 9'x9'x24", typical at interior</u>						
30	Formwork	5,544	sf	16.00	88,704		
31	Re-bar	36,375	lbs.	2.00	72,750		
32	Concrete material	485	cy	132.00	64,020		
33	Placing concrete	485	cy	90.00	43,650		
34	Set anchor bolts grout plates	77	ea	150.00	11,550		
35	<u>Spread Footings: exterior 6'x6'x24", typical</u>						
36	Formwork	3,792	sf	16.00	60,672		
37	Re-bar	16,575	lbs.	2.00	33,150		
38	Concrete material	221	cy	132.00	29,172		
39	Placing concrete	221	cy	90.00	19,890		
40	Set anchor bolts grout plates	79	ea	150.00	11,850		
41	<u>Piers/Pilasters - allow</u>						
42	Formwork	3,744	sf	22.00	82,368		
43	Re-bar	13,750	lbs.	2.00	27,500		
44	Concrete material; 3,000 psi	55	cy	132.00	7,260		
45	Placing concrete	55	cy	120.00	6,600		
46							
47	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
48	Dampproofing at foundation wall	11,166	sf	2.15	24,007		
49							
50	072100 THERMAL INSULATION						
51	Insulation at foundation walls	7,444	sf	3.00	22,332		
52							
53	312000 EARTHWORK						
54	<u>Strip footings</u>						
55	Excavation	1,379	cy	14.00	19,306		
56	Remove off site	217	cy	12.00	2,604		
57	Backfill with onsite material	1,162	cy	16.00	18,592		
58	<u>Spread footings</u>						
59	Excavation	1,597	cy	14.00	22,358		
60	Remove off site	761	cy	12.00	9,132		
61	Backfill with onsite material	836	cy	16.00	13,376		



PSR Cost Estimate

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112,418

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
62	<u>Miscellaneous</u>							
63	Gravel fill beneath footings, 12"	231	cy	38.00	8,778			
64	Perimeter drainage	1,861	lf	22.00	40,942			
65	Under slab drainage	72,627	sf		assume NR			
66	Dewatering for foundation work	1	ls	30,000.00	30,000			
67	SUBTOTAL					1,311,759		
68								
69	A1020 SPECIAL FOUNDATIONS							
70	Ground improvement system; RAPS	72,627	sf	16.00	1,162,032			
71	SUBTOTAL					\$1,162,032		
72								
73	A1030 LOWEST FLOOR CONSTRUCTION							
74	033000 CONCRETE							
75	<u>New Slab on grade, 5" thick</u>							
76	Vapor barrier	72,627	sf	1.00	72,627			
77	Mesh reinforcing 15% lap	83,521	sf	1.15	96,049			
78	Concrete - 5" thick	1,186	cy	135.00	160,110			
79	Placing concrete	1,186	cy	55.00	65,230			
80	Finishing and curing concrete	72,627	sf	2.75	199,724			
81	Control joints - saw cut	72,627	sf	0.20	14,525			
82	<u>Miscellaneous</u>							
83	Elevator pit	1	ea	35,000.00	35,000			
84	Loading dock	1	ls	40,000.00	40,000			
85	Equipment pads	1	ls	20,000.00	20,000			
86								
87	072100 THERMAL INSULATION							
88	Insulation, 2"	72,627	sf	2.50	181,568			
89								
90	312000 EARTHWORK							
91	Rough and fine grade - included in site							
92	Compact sub-grade	72,627	sf	0.50	36,314			
93	Structural fill, 8"	1,794	cy	38.00	68,172			
94	Base course, 8"	1,794	cy	40.00	71,760			
95	Radon system	72,627	sf	2.00	145,254			
96	Plumbing E&B	72,627	sf	1.00	72,627			
97	SUBTOTAL					1,278,960		
98								
99	TOTAL - FOUNDATIONS							\$3,752,751
100								
101								
102	A20 BASEMENT CONSTRUCTION							
103								
104	A2010 BASEMENT EXCAVATION							
105	No Work in this section							
106	SUBTOTAL							
107								
108	A2020 BASEMENT WALLS							
109	No Work in this section							
110	SUBTOTAL							
111								
112	TOTAL - BASEMENT CONSTRUCTION							
113								
114								
115	B10 SUPERSTRUCTURE							
116								
117	B1010 FLOOR CONSTRUCTION							
118	033000 CONCRETE		736 FLOORS AND ROOF					
119	Concrete on Metal Deck	13.1	/SF					
120	WWF reinforcement	45,760	sf	1.25	57,200			
121	Concrete fill to metal deck; light weight, 5-1/4" thick	645	cy	175.00	112,875			



PSR Cost Estimate

GFA

112,418

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
122	Moisture mitigation admixture					NIC		
123	Place and finish concrete	39,791	sf	2.50	99,478			
124	Rebar to decks	11,937	lbs	2.00	23,874			
125	Allowance for beam penetrations	1	ls	50,000.00	50,000			
126								
127	051200 STRUCTURAL STEEL FRAMING							
128	Steel framing - beams/columns/bracing/girders, 13 PSF	259	tns	4,500.00	1,165,500			
129	Shear studs	8,842	ea	3.50	30,947			
130	2" Metal galvanized floor deck	39,791	sf	4.00	159,164			
131								
132	078100 FIREPROOFING/FIRESTOPPING							
133	Firestopping	39,791	sf	0.15	5,969			
134	Fireproofing	39,791	sf	2.50	99,478			
135	SUBTOTAL					1,804,485		
136								
137	B1020 ROOF CONSTRUCTION							
138								
139	033000 CONCRETE							
140	WWF reinforcement	11,500	sf	1.25	14,375			
141	Concrete fill to metal deck; light weight, 4-1/2" thick	160	cy	175.00	28,000			
142	Place and finish concrete	10,000	sf	2.50	25,000			
143	Rebar to decks	3,000	lbs	2.00	6,000			
144								
145	051200 STRUCTURAL STEEL FRAMING							
146	Typical steel framing - beams/columns/bracing/girders, 13 PSF	472	tns	4,500.00	2,124,000			
147	Premium for steel at rooftop equipment - 1lb/sf	5	tns	4,500.00	22,500			
148	3" Metal galvanized roof deck	72,627	sf	4.50	326,822			
149	Premium for acoustic deck at gym and cafetorium	14,000	sf	5.00	70,000			
150	Roof screen support; 15 PSF	18	tns	5,000.00	90,000			
151	Canopy framing	1,000	sf	30.00	30,000			
152	Expansion joints	1	ls	50,000.00	50,000			
153								
154	078100 FIREPROOFING/FIRESTOPPING							
155	Fireproofing	58,627	sf	3.00	175,881			
156	SUBTOTAL					2,962,578		
157								
158	TOTAL - SUPERSTRUCTURE							\$4,767,063
159								
160								
161	B20 EXTERIOR CLOSURE							
162								
163	B2010 EXTERIOR WALLS							
164								
165	042000 MASONRY	39,081	sf					
166	Face brick	39,081	sf	40.00	1,563,240			
167	CMU back up, 8"	2,400	sf	28.00	67,200			
168	Staging to exterior wall	55,830	sf	3.50	195,405			
169								
170	052000 MISC. METALS							
171	Miscellaneous metals	39,081	sf	1.00	39,081			
172								
173	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
174	Air and vapor barrier	39,081	sf	7.50	293,108			
175	Air/Vapor barrier at window & louver openings	8,375	lf	6.00	50,250			
176	Miscellaneous sealants	55,830	sf	0.50	27,915			
177								
178	076400 CLADDING							
179	Roof screen - allow 200 lf	2,400	sf	70.00	168,000			
180								
181	072100 THERMAL INSULATION							
182	Insulation at exterior closure	39,081	sf	6.00	234,486			



PSR Cost Estimate

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
183	Insulation at window openings	8,375	lf	2.50	20,938			
184								
185	092900 GYPSUM BOARD ASSEMBLIES							
186	Sheathing, 5/8"	39,081	sf	3.25	127,013			
187	8" metal stud back-up	36,681	sf	12.00	440,172			
188	GWB lining	36,681	sf	3.50	128,384			
189								
190	101400 SIGNAGE							
191	Building signage, allow	1	ls	10,000.00	10,000			
192	SUBTOTAL					3,365,192		
193								
194	B2020 WINDOWS	16,749	sf					
195								
196	061000 ROUGH CARPENTRY							
197	Wood blocking at openings	8,375	lf	12.00	100,500			
198								
199	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
200	Backer rod & double sealant	8,375	lf	9.00	75,375			
201								
202	080001 WINDOWS							
203	Aluminum windows	13,399	sf	105.00	1,406,895			
204	Curtainwall; 20%	3,350	sf	120.00	402,000			
205	Sunscreens - allowance	1,000	lf	200.00	200,000			
206								
207	089000 LOUVERS							
208	Aluminum louvers - allowance	50	sf	70.00	3,500			
209	SUBTOTAL					2,188,270		
210								
211	B2030 EXTERIOR DOORS							
212								
213	061000 ROUGH CARPENTRY							
214	Wood blocking at openings	196	lf	11.00	2,156			
215								
216	079200 JOINT SEALANTS							
217	Backer rod & double sealant	196	lf	10.00	1,960			
218								
219	081110 HOLLOW METAL							
220	HM door and frame	10	leaf	850.00	8,500			
221								
222	080001 GLAZED ENTRANCES							
223	Glazed aluminum entrance doors including frame and hardware; single	2	ea	5,000.00	10,000			
224	Glazed aluminum entrance doors including frame and hardware; double	4	pr	10,000.00	40,000			
225								
226	086000 COILING DOORS							
227	Colling doors -allow	1	ea	6,500.00	6,500			
228								
229	087100 DOOR HARDWARE							
230	Hardware	10	leaf	1,600.00	16,000			
231	Auto opener at main entry vestibule	2	ea	4,000.00	8,000			
232								
233	090007 PAINTING							
234	Finish doors and frames	10	ea	200.00	2,000			
235	SUBTOTAL					95,116		
236								
237	TOTAL - EXTERIOR CLOSURE						\$5,648,578	
238								
239								
240	B30 ROOFING							
241								



PSR Cost Estimate

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112,418

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
242	B3010 ROOF COVERINGS							
243								
244	061000 ROUGH CARPENTRY							
245	Rough blocking	7,444	lf	10.00	74,440			
246								
247	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
248	AVB at roof perimeter	1,861	lf	8.00	14,888			
249								
250	070002 ROOFING AND FLASHING							
251	Flat Roof							
252	PVC membrane roofing system; R38 insulation	72,627	sf	22.00	1,597,794			
253	Membrane to canopies	1,000	sf	12.00	12,000			
254	Miscellaneous Roofing							
255	Factory fabricated fascia trim/roof edge	1,861	lf	45.00	83,745			
256	Walk pads	2,000	sf	12.00	24,000			
257	Roof ladders	1	ls	5,000.00	5,000			
258	Miscellaneous flashings	72,627	sf	2.00	145,254			
259	SUBTOTAL					1,957,121		
260								
261	B3020 ROOF OPENINGS							
262								
263	086300 ROOF SKYLIGHTS + HATCHES							
264	Skylights	200	sf	150.00	NR			
265	Auditorium smoke vents	3	ea	12,000.00	36,000			
266	Roof access hatch - allowance	2	ea	3,000.00	6,000			
267	SUBTOTAL					42,000		
268								
269	TOTAL - ROOFING							\$1,999,121
270								
271								
272	C10 INTERIOR CONSTRUCTION							
273								
274	C1010 PARTITIONS							
275	Interior partitions	112,418	gsf	22.00	2,473,196			
276	Allowance for interior glazing, borrowed lites etc.	112,418	gsf	4.00	449,672			
277	SUBTOTAL					2,922,868		
278								
279	C1020 INTERIOR DOORS							
280	Allowance for all new interior doors	112,418	gsf	7.00	786,926			
281	SUBTOTAL					786,926		
282								
283	C1030 SPECIALTIES / MILLWORK							
284	Tack boards/Marker Boards	112,418	gsf	1.50	168,627			
285	IWB					FF&E		
286	Access panels	1	ls	5,000.00	5,000			
287	Fire extinguisher cabinets	37	ea	350.00	12,950			
288	Toilet partitions/accessories	112,418	gsf	2.00	224,836			
289	Allowance for all new millwork and casework package	112,418	gsf	12.00	1,349,016			
290	Lockers	112,418	gsf	1.50	168,627			
291	Signage	112,418	gsf	0.60	67,451			
292	Misc. metals	112,418	gsf	2.00	224,836			
293	Misc. sealants	112,418	gsf	1.25	140,523			
294	SUBTOTAL					2,361,866		
295								
296	TOTAL - INTERIOR CONSTRUCTION							\$6,071,660
297								
298								
299	C20 STAIRCASES							
300								
301	C2010 STAIR CONSTRUCTION							
302								



PSR Cost Estimate

GFA

112,418

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
303	033000 CONCRETE							
304	Concrete to stairs	3	flt	1,500.00	4,500			
305								
306	055000 MISCELLANEOUS METALS							
307	Lobby communication stair, level 1 to 2, including finishes	1	flt	75,000.00	75,000			
308	Egress stairs	2	flt	25,000.00	50,000			
309	SUBTOTAL					129,500		
310								
311	C2020 STAIR FINISHES							
312								
313	090005 RESILIENT FLOORS							
314	Rubber tile at egress stair	2	flt	5,000.00	10,000			
315								
316	090007 PAINTING							
317	Paint to stairs	3	flt	1,500.00	4,500			
318	SUBTOTAL					14,500		
319								
320	TOTAL - STAIRCASES							\$144,000
321								
322								
323	C30 INTERIOR FINISHES							
324								
325	C3010 WALL FINISHES							
326	Wall finishes	112,418	gsf	11.00	1,236,598			
327	Cafetorium acoustic premium	1	ls	100,000.00	100,000			
328	SUBTOTAL					1,336,598		
329								
330	C3020 FLOOR FINISHES							
331	Floor finishes throughout	112,418	gsf	9.00	1,011,762			
332	SUBTOTAL					1,011,762		
333								
334	C3030 CEILING FINISHES							
335	Ceilings throughout	112,418	gsf	10.00	1,124,180			
336	Cafetorium acoustic reflectors	1	ls	75,000.00	75,000			
337	SUBTOTAL					1,199,180		
338								
339	TOTAL - INTERIOR FINISHES							\$3,547,540
340								
341								
342	D10 CONVEYING SYSTEMS							
343								
344	D1010 ELEVATOR							
345	Elevator, 2 stop	1	ea	150,000.00	150,000			
346	SUBTOTAL					150,000		
347								
348	TOTAL - CONVEYING SYSTEMS							\$150,000
349								
350								
351	D20 PLUMBING							
352								
353	D20 PLUMBING, GENERALLY							
354	New construction includes domestic water service, hot water heating, sanitary drainage system, roof drainage system, natural gas, plumbing fixtures, and insulation	112,418	gsf	17.00	1,911,106			
355	SUBTOTAL					1,911,106		
356								
357	TOTAL - PLUMBING							\$1,911,106
358								
359								



PSR Cost Estimate

GFA

112,418

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
360	D30 HVAC							
361								
362	D30 HVAC, GENERALLY							
363	HVAC system; full AC; water source VRF; gas fired condensing boilers; closed hybrid cooling tower; RTU's; VAV boxes, displacement system in classrooms; ATC	112,418	gsf	55.00	6,182,990			
364	SUBTOTAL					6,182,990		
365	TOTAL - HVAC							\$6,182,990
366								
367								
368	D40 FIRE PROTECTION							
369								
370								
371	D40 FIRE PROTECTION, GENERALLY							
372	New water service for fire protection				w/site			
373	New fire protection system includes new double check valve assembly, wet alarm valve, electric bell, fire department connection, control valve assemblies, sprinklers, and piping	112,418	gsf	5.50	618,299			
374	SUBTOTAL					618,299		
375								
376	TOTAL - FIRE PROTECTION							\$618,299
377								
378								
379	D50 ELECTRICAL							
380								
381	New electrical system; complete; 2000 Amp service; 350kW Generator; LED lighting; FA, tele/Data, PA + security	112,418	gsf	32.00	3,597,376			
382	Auditorium premium							
383	Cafetorium dimming and lighting package	1	ls	50,000.00	50,000			
384	Cafetorium AV Equipment	1	ls	100,000.00	100,000			
385	SUBTOTAL					3,747,376		
386								
387	TOTAL - ELECTRICAL							\$3,747,376
388								
389								
390	E10 EQUIPMENT							
391								
392	E10 EQUIPMENT, GENERALLY							
393								
394	111313 LOADING DOCK							
395	Loading dock equipment	1	ls	10,000.00	10,000			
396								
397	111520 PROJECTION SCREENS							
398	Allowance for projection screens	1	ls	30,000.00	30,000			
399								
400	114000 FOOD SERVICE EQUIPMENT							
401	Kitchen equipment	1	ls	300,000.00	300,000			
402								
403	114500 APPLIANCES							
404	Residential appliances	1	ls	20,000.00	20,000			
405	Science room equipment	1	ls	180,000.00	180,000			
406								
407	116100 THEATRICAL EQUIPMENT							
408	Cafetorium & Stage Equipment (rigging system, curtains) - allowance	1	ls	90,000.00	90,000			
409								
410	116600 ATHLETIC EQUIPMENT							
411	Scoreboard and shot clock	1	ea	15,000.00	15,000			
412	Gym wall pads	1	ls	10,000.00	10,000			
413	Basketball backstops; retractable	6	ea	7,600.00	45,600			



PSR Cost Estimate

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
414	Gymnasium dividing net	1	ls	20,000.00	20,000			
415	Motorized assisted telescoping gymnasium bleacher seating (200 seat)	1	ls	40,000.00	40,000			
416	SUBTOTAL					760,600		
TOTAL - EQUIPMENT							\$760,600	
E20 FURNISHINGS								
E2010 FIXED FURNISHINGS								
424	124813 ENTRANCE FLOOR MAT AND FRAMES							
425	Recessed entry mats & walk-off mats	1	ls	15,000.00	15,000			
427	123000 CASEWORK							
428	Casework carried in specialties							
429	124000 SEATING							
430	Auditorium seating	600	ea	350.00	NR			
431	122400 WINDOW TREATMENT							
432	Window treatments	16,749	sf	7.00	117,243			
433	Premium for motorized shades	1	ls	66,996.00	66,996			
434	SUBTOTAL					199,239		
435	E2020 MOVABLE FURNISHINGS							
436	All movable furnishings to be provided and installed by owner							
437	SUBTOTAL						NIC	
438	TOTAL - FURNISHINGS							\$199,239
439	F10 SPECIAL CONSTRUCTION							
440	F10 SPECIAL CONSTRUCTION							
441	No items in this section							
442	SUBTOTAL							
443	TOTAL - SPECIAL CONSTRUCTION							
444	F20 SELECTIVE BUILDING DEMOLITION							
445	F2010 BUILDING ELEMENTS DEMOLITION							
446	No items in this section							
447	SUBTOTAL						-	
448	F2020 HAZARDOUS COMPONENTS ABATEMENT							
449	Removal of Asbestos Containing Materials in existing building - Included in Summary							
450	SUBTOTAL							
451	TOTAL - SELECTIVE BUILDING DEMOLITION							

SUBTOTAL OPTION D.2.1.3 NEW SCHOOL

\$ 39,500,323



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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GROSS FLOOR AREA CALCULATION

1							
2	First Floor	67,910					
3	Second Floor	44,508					
4							
5							

6	TOTAL GROSS FLOOR AREA (GFA)					112,418 sf	
---	-------------------------------------	--	--	--	--	-------------------	--

A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

033000 CONCRETE

13	Strip Footings	183	CY				
14	Foundation Walls	324	CY				
15	Spread Footings	612	CY				
16	Piers	47	CY				
17	Total Foundation Concrete	1,166	CY				
18	<u>Strip footings at typical foundation wall: 3'x12" deep</u>						
19	Formwork	3,136	sf	14.00	43,904		
20	Re-bar	5,490	lbs.	2.00	10,980		
21	Concrete material	183	cy	132.00	24,156		
22	Placing concrete	183	cy	90.00	16,470		
23	<u>Foundation walls: 14"-16" thick</u>						
24	Formwork	12,544	sf	18.00	225,792		
25	Re-bar	25,088	lbs.	2.00	50,176		
26	Concrete material	324	cy	132.00	42,768		
27	Placing concrete	324	cy	90.00	29,160		
28	Form shelf	1,568	lf	8.00	12,544		
29	<u>Spread Footings: 9'x9'x24", typical at interior</u>						
30	Formwork	4,824	sf	16.00	77,184		
31	Re-bar	31,650	lbs.	2.00	63,300		
32	Concrete material	422	cy	132.00	55,704		
33	Placing concrete	422	cy	90.00	37,980		
34	Set anchor bolts grout plates	67	ea	150.00	10,050		
35	<u>Spread Footings: exterior 6'x6'x24", typical</u>						
36	Formwork	3,264	sf	16.00	52,224		
37	Re-bar	14,250	lbs.	2.00	28,500		
38	Concrete material	190	cy	132.00	25,080		
39	Placing concrete	190	cy	90.00	17,100		
40	Set anchor bolts grout plates	68	ea	150.00	10,200		
41	<u>Piers/Pilasters - allow</u>						
42	Formwork	3,240	sf	22.00	71,280		
43	Re-bar	11,750	lbs.	2.00	23,500		
44	Concrete material; 3,000 psi	47	cy	132.00	6,204		
45	Placing concrete	47	cy	120.00	5,640		
46							
47	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
48	Dampproofing at foundation wall	9,408	sf	2.15	20,227		
49							
50	072100 THERMAL INSULATION						
51	Insulation at foundation walls	6,272	sf	3.00	18,816		
52							
53	312000 EARTHWORK						
54	<u>Strip footings</u>						
55	Excavation	1,161	cy	14.00	16,254		
56	Remove off site	183	cy	12.00	2,196		
57	Backfill with onsite material	978	cy	16.00	15,648		
58	<u>Spread footings</u>						
59	Excavation	1,384	cy	14.00	19,376		
60	Remove off site	659	cy	12.00	7,908		
61	Backfill with onsite material	725	cy	16.00	11,600		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
62	<u>Miscellaneous</u>							
63	Gravel fill beneath footings, 12"	201	cy	38.00	7,638			
64	Perimeter drainage	1,568	lf	22.00	34,496			
65	Under slab drainage	67,910	sf		assume NR			
66	Dewatering for foundation work	1	ls	30,000.00	30,000			
67	SUBTOTAL					1,124,055		
68								
69	A1020 SPECIAL FOUNDATIONS							
70	Ground improvement system; RAPS	67,910	sf	16.00	1,086,560			
71	SUBTOTAL					\$1,086,560		
72								
73	A1030 LOWEST FLOOR CONSTRUCTION							
74	033000 CONCRETE							
75	<u>New Slab on grade, 5" thick</u>							
76	Vapor barrier	67,910	sf	1.00	67,910			
77	Mesh reinforcing 15% lap	78,097	sf	1.15	89,812			
78	Concrete - 5" thick	1,109	cy	135.00	149,715			
79	Placing concrete	1,109	cy	55.00	60,995			
80	Finishing and curing concrete	67,910	sf	2.75	186,753			
81	Control joints - saw cut	67,910	sf	0.20	13,582			
82	<u>Miscellaneous</u>							
83	Elevator pit	1	ea	35,000.00	35,000			
84	Loading dock	1	ls	40,000.00	40,000			
85	Equipment pads	1	ls	20,000.00	20,000			
86								
87	072100 THERMAL INSULATION							
88	Insulation, 2"	67,910	sf	2.50	169,775			
89								
90	312000 EARTHWORK							
91	Rough and fine grade - included in site							
92	Compact sub-grade	67,910	sf	0.50	33,955			
93	Structural fill, 8"	1,678	cy	38.00	63,764			
94	Base course, 8"	1,678	cy	40.00	67,120			
95	Radon system	67,910	sf	2.00	135,820			
96	Plumbing E&B	67,910	sf	1.00	67,910			
97	SUBTOTAL					1,202,111		
98								
99	TOTAL - FOUNDATIONS							\$3,412,726
100								
101								
102	A20 BASEMENT CONSTRUCTION							
103								
104	A2010 BASEMENT EXCAVATION							
105	No Work in this section							
106	SUBTOTAL							
107								
108	A2020 BASEMENT WALLS							
109	No Work in this section							
110	SUBTOTAL							
111								
112	TOTAL - BASEMENT CONSTRUCTION							
113								
114								
115	B10 SUPERSTRUCTURE							
116								
117	B1010 FLOOR CONSTRUCTION							
118	033000 CONCRETE		735 FLOORS AND ROOF					
119	Concrete on Metal Deck	13.1	/SF					
120	WWF reinforcement	51,184	sf	1.25	63,980			
121	Concrete fill to metal deck; light weight, 5-1/4" thick	721	cy	175.00	126,175			



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
122	Moisture mitigation admixture					NIC		
123	Place and finish concrete	44,508	sf	2.50	111,270			
124	Rebar to decks	13,352	lbs	2.00	26,704			
125	Allowance for beam penetrations	1	ls	50,000.00	50,000			
126								
127	051200 STRUCTURAL STEEL FRAMING							
128	Steel framing - beams/columns/bracing/girders, 13 PSF	289	tns	4,500.00	1,300,500			
129	Shear studs	9,891	ea	3.50	34,619			
130	2" Metal galvanized floor deck	44,508	sf	4.00	178,032			
131								
132	078100 FIREPROOFING/FIRESTOPPING							
133	Firestopping	44,508	sf	0.15	6,676			
134	Fireproofing	44,508	sf	2.50	111,270			
135	SUBTOTAL					2,009,226		
136								
137	B1020 ROOF CONSTRUCTION							
138								
139	033000 CONCRETE							
140	WWF reinforcement	11,500	sf	1.25	14,375			
141	Concrete fill to metal deck; light weight, 4-1/2" thick	160	cy	175.00	28,000			
142	Place and finish concrete	10,000	sf	2.50	25,000			
143	Rebar to decks	3,000	lbs	2.00	6,000			
144								
145	051200 STRUCTURAL STEEL FRAMING							
146	Typical steel framing - beams/columns/bracing/girders, 13 PSF	441	tns	4,500.00	1,984,500			
147	Premium for steel at rooftop equipment - 1lb/sf	5	tns	4,500.00	22,500			
148	3" Metal galvanized roof deck	67,910	sf	4.50	305,595			
149	Premium for acoustic deck at gym and cafetorium	14,000	sf	5.00	70,000			
150	Roof screen support; 15 PSF	18	tns	5,000.00	90,000			
151	Canopy framing	1,000	sf	30.00	30,000			
152	Expansion joints	1	ls	50,000.00	50,000			
153								
154	078100 FIREPROOFING/FIRESTOPPING							
155	Fireproofing	53,910	sf	3.00	161,730			
156	SUBTOTAL					2,787,700		
157								
158	TOTAL - SUPERSTRUCTURE							\$4,796,926
159								
160								
161	B20 EXTERIOR CLOSURE							
162								
163	B2010 EXTERIOR WALLS							
164								
165	042000 MASONRY	32,928	sf					
166	Face brick	32,928	sf	40.00	1,317,120			
167	CMU back up, 8"	2,400	sf	28.00	67,200			
168	Staging to exterior wall	47,040	sf	3.50	164,640			
169								
170	052000 MISC. METALS							
171	Miscellaneous metals	32,928	sf	1.00	32,928			
172								
173	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
174	Air and vapor barrier	32,928	sf	7.50	246,960			
175	Air/Vapor barrier at window & louver openings	7,056	lf	6.00	42,336			
176	Miscellaneous sealants	47,040	sf	0.50	23,520			
177								
178	076400 CLADDING							
179	Roof screen - allow 200 lf	2,400	sf	70.00	168,000			
180								
181	072100 THERMAL INSULATION							
182	Insulation at exterior closure	32,928	sf	6.00	197,568			



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
183	Insulation at window openings	7,056	lf	2.50	17,640			
184								
185	092900 GYPSUM BOARD ASSEMBLIES							
186	Sheathing, 5/8"	32,928	sf	3.25	107,016			
187	8" metal stud back-up	30,528	sf	12.00	366,336			
188	GWB lining	30,528	sf	3.50	106,848			
189								
190	101400 SIGNAGE							
191	Building signage, allow	1	ls	10,000.00	10,000			
192	SUBTOTAL					2,868,112		
193								
194	B2020 WINDOWS	14,112	sf					
195								
196	061000 ROUGH CARPENTRY							
197	Wood blocking at openings	7,056	lf	12.00	84,672			
198								
199	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
200	Backer rod & double sealant	7,056	lf	9.00	63,504			
201								
202	080001 WINDOWS							
203	Aluminum windows	11,290	sf	105.00	1,185,450			
204	Curtainwall; 20%	2,822	sf	120.00	338,640			
205	Sunscreens - allowance	1,000	lf	200.00	200,000			
206								
207	089000 LOUVERS							
208	Aluminum louvers - allowance	50	sf	70.00	3,500			
209	SUBTOTAL					1,875,766		
210								
211	B2030 EXTERIOR DOORS							
212								
213	061000 ROUGH CARPENTRY							
214	Wood blocking at openings	196	lf	11.00	2,156			
215								
216	079200 JOINT SEALANTS							
217	Backer rod & double sealant	196	lf	10.00	1,960			
218								
219	081110 HOLLOW METAL							
220	HM door and frame	10	leaf	850.00	8,500			
221								
222	080001 GLAZED ENTRANCES							
223	Glazed aluminum entrance doors including frame and hardware; single	2	ea	5,000.00	10,000			
224	Glazed aluminum entrance doors including frame and hardware; double	4	pr	10,000.00	40,000			
225								
226	086000 COILING DOORS							
227	Colling doors -allow	1	ea	6,500.00	6,500			
228								
229	087100 DOOR HARDWARE							
230	Hardware	10	leaf	1,600.00	16,000			
231	Auto opener at main entry vestibule	2	ea	4,000.00	8,000			
232								
233	090007 PAINTING							
234	Finish doors and frames	10	ea	200.00	2,000			
235	SUBTOTAL					95,116		
236								
237	TOTAL - EXTERIOR CLOSURE						\$4,838,994	
238								
239								
240	B30 ROOFING							
241								



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
242	B3010 ROOF COVERINGS							
243								
244	061000 ROUGH CARPENTRY							
245	Rough blocking	6,272	lf	10.00	62,720			
246								
247	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
248	AVB at roof perimeter	1,568	lf	8.00	12,544			
249								
250	070002 ROOFING AND FLASHING							
251	Flat Roof							
252	PVC membrane roofing system; R38 insulation	67,910	sf	22.00	1,494,020			
253	Membrane to canopies	1,000	sf	12.00	12,000			
254	Miscellaneous Roofing							
255	Factory fabricated fascia trim/roof edge	1,568	lf	45.00	70,560			
256	Walk pads	2,000	sf	12.00	24,000			
257	Roof ladders	1	ls	5,000.00	5,000			
258	Miscellaneous flashings	67,910	sf	2.00	135,820			
259	SUBTOTAL					1,816,664		
260								
261	B3020 ROOF OPENINGS							
262								
263	086300 ROOF SKYLIGHTS + HATCHES							
264	Skylights	200	sf	150.00	NR			
265	Auditorium smoke vents	3	ea	12,000.00	36,000			
266	Roof access hatch - allowance	2	ea	3,000.00	6,000			
267	SUBTOTAL					42,000		
268								
269	TOTAL - ROOFING							\$1,858,664
270								
271								
272	C10 INTERIOR CONSTRUCTION							
273								
274	C1010 PARTITIONS							
275	Interior partitions	112,418	gsf	22.00	2,473,196			
276	Allowance for interior glazing, borrowed lites etc.	112,418	gsf	4.00	449,672			
277	SUBTOTAL					2,922,868		
278								
279	C1020 INTERIOR DOORS							
280	Allowance for all new interior doors	112,418	gsf	7.00	786,926			
281	SUBTOTAL					786,926		
282								
283	C1030 SPECIALTIES / MILLWORK							
284	Tack boards/Marker Boards	112,418	gsf	1.50	168,627			
285	IWB					FF&E		
286	Access panels	1	ls	5,000.00	5,000			
287	Fire extinguisher cabinets	37	ea	350.00	12,950			
288	Toilet partitions/accessories	112,418	gsf	2.00	224,836			
289	Allowance for all new millwork and casework package	112,418	gsf	12.00	1,349,016			
290	Lockers	112,418	gsf	1.50	168,627			
291	Signage	112,418	gsf	0.60	67,451			
292	Misc. metals	112,418	gsf	2.00	224,836			
293	Misc. sealants	112,418	gsf	1.25	140,523			
294	SUBTOTAL					2,361,866		
295								
296	TOTAL - INTERIOR CONSTRUCTION							\$6,071,660
297								
298								
299	C20 STAIRCASES							
300								
301	C2010 STAIR CONSTRUCTION							
302								



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
303	033000 CONCRETE							
304	Concrete to stairs	3	flt	1,500.00	4,500			
305								
306	055000 MISCELLANEOUS METALS							
307	Lobby communication stair, level 1 to 2, including finishes	1	flt	75,000.00	75,000			
308	Egress stairs	2	flt	25,000.00	50,000			
309	SUBTOTAL					129,500		
310								
311	C2020 STAIR FINISHES							
312								
313	090005 RESILIENT FLOORS							
314	Rubber tile at egress stair	2	flt	5,000.00	10,000			
315								
316	090007 PAINTING							
317	Paint to stairs	3	flt	1,500.00	4,500			
318	SUBTOTAL					14,500		
319								
320	TOTAL - STAIRCASES							\$144,000
321								
322								
323	C30 INTERIOR FINISHES							
324								
325	C3010 WALL FINISHES							
326	Wall finishes	112,418	gsf	11.00	1,236,598			
327	Cafetorium acoustic premium	1	ls	100,000.00	100,000			
328	SUBTOTAL					1,336,598		
329								
330	C3020 FLOOR FINISHES							
331	Floor finishes throughout	112,418	gsf	9.00	1,011,762			
332	SUBTOTAL					1,011,762		
333								
334	C3030 CEILING FINISHES							
335	Ceilings throughout	112,418	gsf	10.00	1,124,180			
336	Cafetorium acoustic reflectors	1	ls	75,000.00	75,000			
337	SUBTOTAL					1,199,180		
338								
339	TOTAL - INTERIOR FINISHES							\$3,547,540
340								
341								
342	D10 CONVEYING SYSTEMS							
343								
344	D1010 ELEVATOR							
345	Elevator, 2 stop	1	ea	150,000.00	150,000			
346	SUBTOTAL					150,000		
347								
348	TOTAL - CONVEYING SYSTEMS							\$150,000
349								
350								
351	D20 PLUMBING							
352								
353	D20 PLUMBING, GENERALLY							
354	New construction includes domestic water service, hot water heating, sanitary drainage system, roof drainage system, natural gas, plumbing fixtures, and insulation	112,418	gsf	17.00	1,911,106			
355	SUBTOTAL					1,911,106		
356								
357	TOTAL - PLUMBING							\$1,911,106
358								
359								



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
360	D30 HVAC						
361							
362	D30 HVAC, GENERALLY						
363	HVAC system; full AC; water source VRF; gas fired condensing boilers; closed hybrid cooling tower; RTU's; VAV boxes, displacement system in classrooms; ATC	112,418	gsf	55.00	6,182,990		
364	SUBTOTAL					6,182,990	
365							
366	TOTAL - HVAC						\$6,182,990
367							
368							
369	D40 FIRE PROTECTION						
370							
371	D40 FIRE PROTECTION, GENERALLY						
372	New water service for fire protection				w/site		
373	New fire protection system includes new double check valve assembly, wet alarm valve, electric bell, fire department connection, control valve assemblies, sprinklers, and piping	112,418	gsf	5.50	618,299		
374	SUBTOTAL					618,299	
375							
376	TOTAL - FIRE PROTECTION						\$618,299
377							
378							
379	D50 ELECTRICAL						
380							
381	New electrical system; complete; 2000 Amp service; 350kW Generator; LED lighting; FA, tele/Data, PA + security	112,418	gsf	32.00	3,597,376		
382	Auditorium premium						
383	Cafetorium dimming and lighting package	1	ls	50,000.00	50,000		
384	Cafetorium AV Equipment	1	ls	100,000.00	100,000		
385	SUBTOTAL					3,747,376	
386							
387	TOTAL - ELECTRICAL						\$3,747,376
388							
389							
390	E10 EQUIPMENT						
391							
392	E10 EQUIPMENT, GENERALLY						
393							
394	111313 LOADING DOCK						
395	Loading dock equipment	1	ls	10,000.00	10,000		
396							
397	111520 PROJECTION SCREENS						
398	Allowance for projection screens	1	ls	30,000.00	30,000		
399							
400	114000 FOOD SERVICE EQUIPMENT						
401	Kitchen equipment	1	ls	300,000.00	300,000		
402							
403	114500 APPLIANCES						
404	Residential appliances	1	ls	20,000.00	20,000		
405	Science room equipment	1	ls	180,000.00	180,000		
406							
407	116100 THEATRICAL EQUIPMENT						
408	Cafetorium & Stage Equipment (rigging system, curtains) - allowance	1	ls	90,000.00	90,000		
409							
410	116600 ATHLETIC EQUIPMENT						
411	Scoreboard and shot clock	1	ea	15,000.00	15,000		
412	Gym wall pads	1	ls	10,000.00	10,000		
413	Basketball backstops; retractable	6	ea	7,600.00	45,600		



PSR Cost Estimate

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112,418

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
414	Gymnasium dividing net	1	ls	20,000.00	20,000			
415	Motorized assisted telescoping gymnasium bleacher seating (200 seat)	1	ls	40,000.00	40,000			
416	SUBTOTAL					760,600		
TOTAL - EQUIPMENT							\$760,600	
E20 FURNISHINGS								
E2010 FIXED FURNISHINGS								
424	124813 ENTRANCE FLOOR MAT AND FRAMES							
425	Recessed entry mats & walk-off mats	1	ls	15,000.00	15,000			
427	123000 CASEWORK							
428	Casework carried in specialties							
429	124000 SEATING							
430	Auditorium seating	600	ea	350.00	NR			
431	122400 WINDOW TREATMENT							
432	Window treatments	14,112	sf	7.00	98,784			
433	Premium for motorized shades	1	ls	56,448.00	56,448			
434	SUBTOTAL					170,232		
435	E2020 MOVABLE FURNISHINGS							
436	All movable furnishings to be provided and installed by owner							
437	SUBTOTAL						NIC	
438	TOTAL - FURNISHINGS							\$170,232
439	F10 SPECIAL CONSTRUCTION							
440	F10 SPECIAL CONSTRUCTION							
441	No items in this section							
442	SUBTOTAL							
443	TOTAL - SPECIAL CONSTRUCTION							
444	F20 SELECTIVE BUILDING DEMOLITION							
445	F2010 BUILDING ELEMENTS DEMOLITION							
446	No items in this section							
447	SUBTOTAL						-	
448	F2020 HAZARDOUS COMPONENTS ABATEMENT							
449	Removal of Asbestos Containing Materials in existing building - Included in Summary							
450	SUBTOTAL							
451	TOTAL - SELECTIVE BUILDING DEMOLITION							

SUBTOTAL OPTION D.2.1.4 NEW SCHOOL

\$ 38,211,113



PSR Cost Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
G SITEWORK							
G10 SITE PREPARATION & DEMOLITION							
<u>Site Demolitions and Relocations</u>							
	Site construction fence/barricades; visual screen	4,000	lf	20.00	80,000		
	Site construction fence gates	2	loc	15,000.00	30,000		
	Stabilized construction entrance	3,000	sf	6.00	18,000		
	Clear brush and trees, remove all stumps etc. - allow	1	ls	30,000.00	30,000		
	Temporary construction signs	1	ls	2,000.00	2,000		
	Pavement/curbing removal @ sidewalks, driveway, parking and drop-off area	130,000	sf	1.50	195,000		
	Demolish existing garage	1	ls	15,000.00	15,000		
	Misc. tree protection	1	ls	10,000.00	10,000		
	Salvage existing generator	1	ls	5,000.00	5,000		
	Salvage existing Tiger Plaza Statue	1	ls	3,000.00	3,000		
	Cut and cap existing utilities and remove and dispose of existing drainage structures and utilities - allow	1	ls	25,000.00	25,000		
	Miscellaneous site demolition - play equipment, site furnishings, remaining fences, etc.	1	ls	75,000.00	75,000		
	Strip topsoil, store	926	cy	12.00	11,112		
	SUBTOTAL						499,112
<u>Site Earthwork</u>							
	Construction entrances/wheel washes (allowance)	1	loc	12,000.00	12,000		
	Regrading, generally	12,744	cy	10.00	127,440		
	Fine grading	20,228	sy	1.00	20,228		
	Silt fence/erosion control (allowance)	4,000	lf	12.00	48,000		
	Erosion Control monitoring & maintenance	1	ls	10,000.00	10,000		
<u>Hazardous Waste Remediation</u>							
	Removal of UST						NR
	SUBTOTAL						217,668
G20 SITE IMPROVEMENTS							
	Existing Parking - mill + repave/ reconfigure	50,000	sf	4.00			NR
	<i>New Parking lot, Bus/Parent drop-off, Driveway</i>	112,048	sf				
	gravel base; 12" thick	4,150	cy	40.00	166,000		
	4" bituminous concrete	12,450	sy	28.00	348,600		
	Granite curbs	6,651	lf	45.00	299,295		
	Parking lines, crosswalk markings etc.	1	ls	15,000.00	15,000		
	Parking and traffic signs	1	ls	10,000.00	10,000		
	<i>H2o Loaded Pavement</i>	10,573	sf				
	gravel base; 24" thick	783	cy	40.00	31,320		
	5" bituminous concrete	1,175	sy	32.00	37,600		
	Granite curbs	679	lf	45.00	30,555		
	<i>Fire Access Road</i>	5,242	sf				
	gravel base; 12" thick	194	cy	40.00	7,760		
	5" bituminous concrete	582	sy	32.00	18,624		
	Granite curbs	627	lf	45.00	28,215		
	SUBTOTAL						992,969
<u>Pedestrian paving</u>							
<u>Concrete paving</u>							
	gravel base; 8" thick	285	cy	40.00	11,400		
	colored concrete paving	10,000	sf	14.00	140,000		
	Entry plaza paving; assume permeable paver on bituminous	1,500	sf	24.00	36,000		
	Dumpster/ Equipment pads	1	ls	10,000.00	10,000		
<u>Sidewalks - asphalt; allow</u>							
	gravel base; 8" thick	315	cy	40.00	12,600		
	bituminous or similar	944	cy	24.00	22,656		
	Allowance to patch ETR paving adjacent to High School	1	ls	20,000.00	20,000		



PSR Cost Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
57	<u>Site Improvements</u>						
58	Flag pole; 40 FT	1	loc	7,500.00	7,500		
59	Site sign	1	ls	30,000.00	30,000		
60	Shade structure	1	ls	50,000.00	50,000		
61	Site improvements; site furnishings, signage, seat walls, ADA ramps & entry pads, walls, rails, fences etc.	1	ls	250,000.00	250,000		
62	SUBTOTAL					590,156	
63							
64	Gravel drainage layer at new softball field	2,963	cy	42.00	124,446		
65	Reuse existing amended topsoil	1,481	cy	30.00	44,430		
66	Backstop	1	ls	45,000.00	45,000		
67	Benches, infield, bases, foul poles etc.	1	ls	80,000.00	80,000		
68	Fencing	1,100	lf	75.00	82,500		
69	<u>Landscaping & Plantings:</u>						
70	Soil mix; reuse amended soil from on-site spoils	926	cy	27.50	25,465		
71	Import soil for new lawn areas				NR		
72	New seeded areas - L&S	50,000	sf	0.35	17,500		
73	Allowance for plantings	1	ls	75,000.00	75,000		
74	Allowance for irrigation at softball field	80,000	sf	1.25	100,000		
75	SUBTOTAL					594,341	
76							
77	G30 CIVIL MECHANICAL UTILITIES						
78	<u>Water Service</u>						
79	New DI piping; 4" Domestic water	500	lf	75.00	37,500		
80	New DI piping; 4" Fire	500	lf	75.00	37,500		
81	Gate valves	4	ea	750.00	3,000		
82	Connect to existing	1	loc	10,000.00	10,000		
83	FD connection	1	ea	2,000.00	2,000		
84	Fire hydrant	2	ea	5,000.00	10,000		
85	<u>Sewer</u>						
86	8" PVC sewer line - allow	400	lf	60.00	24,000		
87	Manhole - allowance	4	loc	2,800.00	11,200		
88	Tight tank	1	ls	9,000.00	9,000		
89	Grease trap	1	ls	14,000.00	14,000		
90	Allowance for new lift station or ejector pump				N.R.; assume gravity connection		
91	Connect to existing	1	loc	10,000.00	10,000		
92	<u>Surface Water Drainage</u>						
93	Allowance to upgrade existing and install new storm water management infrastructure; closed drainage systems, drainage piping, structures and WQS	112,048	sf	10.00	1,120,480		
94	Modify existing utilities at backstop + concessions	1	ls	200,000.00	200,000		
95	<u>Gas service</u>						
96	E&B trench for connection to existing gas main, pipe and install by utilities	400	lf	25.00	10,000		
97	Gas Meter				NIC		
98	SUBTOTAL					1,498,680	
99							
100							
101	G40 SITE ELECTRICAL						
102	<u>Civil</u>						
103	Concrete work for duct banks	600	lf	35.00	21,000		
104	Transformer pad / generator pad	1	ea	2,500.00	2,500		
105	Excavation & backfill for duct banks	600	lf	30.00	18,000		
106	Utility co. backcharges, allow				By Owner		
107	<u>Power & Communications</u>						
108	Primary and communications duct bank	500	lf	125.00	62,500		
109	Secondary and generator duct bank	100	lf	500.00	50,000		
110	<u>Site Lighting</u>						
111	Parking/ Roadway/Walkway lighting (allow)	112,048	sf	2.00	224,096		
112	<u>Electric Vehicle Charging Station</u>						



PSR Cost 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>
113	EVCS including 40A feed - allow	2	ea	10,000.00	20,000		
114	<u>Site Security</u>						
115	Access control at pass thru	1	loc	20,000.00	20,000		
116	CCTV surveillance at site				not anticipated		
117	<u>Site Demolition</u>						
118	Site demolition and make safe	1	ls	10,000.00	10,000		
119	SUBTOTAL					428,096	
120							
121							
122	SUBTOTAL SITE DEVELOPMENT						\$4,821,022