

18 OPM COST ESTIMATE



Tarbell **Construction Management Inc.**

SD Cost Estimate for:

**Florence Roche Elementary School
Groton, MA**



Prepared for:

Leftfield, LLC

December 8, 2020

“Solutions Built on Experience, Trust and Teamwork”

UNIFORMAT II ELEMENTAL COST SUMMARY AND ANALYSIS

Table 1: BUILDING

LEVEL 2 GROUP ELEMENTS		ELEMEN				Cost per	% Trade
Level 3 Element		Ratio	Quantity	UoM	Unit Rate	Unit GFA	Cost
A10	FOUNDATIONS					\$2,595,464	23.63
A1010	Standard Foundations	0.581	63832	ls	26.47	1689355	15.38
A1020	Special Foundations					0	0.00
A1030	Slab on Grade	0.582	63981	sf	14.16	906109	8.25
A20	BASEMENT CONSTRUCTION					\$0	0.00
A2010	Basement Excavation					0	0.00
A2020	Basement Walls					0	0.00
B10	SUPERSTRUCTURE					\$4,117,998	37.49
B1010	Floor Construction	0.418	45876	sf	42.05	1929139	17.56
B1020	Roof Construction	0.498	54759	sf	39.97	2188859	19.92
B20	EXTERIOR CLOSURE					\$5,968,687	54.33
B2010	Exterior Walls	0.507	55657	SF	86.22	4798843	43.68
B2020	Exterior Windows	0.091	9979	SF	107.08	1068562	9.73
B2030	Exterior Doors	0.000	24	EA	4220.08	101282	0.92
B30	ROOFING					\$1,550,563	14.11
B3010	Roof Coverings					1464763	13.33
B3020	Roof Openings					85800	0.78
C10	INTERIOR CONSTRUCTION					\$4,263,618	38.81
C1010	Partitions	1.067	117238	SF	24.92	2922045	26.60
C1020	Interior Doors	0.002	182	Leaf	3665.53	667126	6.07
C1030	Fittings	0.000	1	LS	674447.00	674447	6.14
C20	STAIRS					\$261,635	2.38
C2010	Stair Construction	0.000	4	EA	48996.25	195985	1.78
C2020	Stair Finishes	0.000	4	EA	16412.50	65650	0.60
C30	INTERIOR FINISHES					\$3,247,611	29.56
C3010	Wall Finishes	1.755	192787	SF	4.09	787848	7.17
C3020	Floor Finishes	0.836	91868	SF	13.95	1281636	11.67
C3030	Ceiling Finishes	0.869	95511	SF	12.33	1178127	10.72
D10	CONVEYING					\$205,000	1.87
D1010	Elevators & Lifts	0.000	2	EA	102500.00	205000	1.87
D1020	Escalators & Moving Walks					0	0.00
D1090	Other Conveying Systems					0	0.00
D20	PLUMBING					\$1,786,596	16.26
D2010	Plumbing Fixtures	0.002	182	EA	1591.24	289605	2.64
D2020	Domestic Water Distribution	0.000	1	LS	418648.00	418648	3.81
D2030	Sanitary Waste	0.106	11650	LF	52.39	610295	5.56
D2040	Rain Water Drainage	0.025	2720	LF	112.35	305600	2.78
D2090	Other Plumbing Systems	0.000	8	LS	20306.00	162448	1.48
D30	HVAC					\$5,771,258	52.54
D3010	Energy Supply					0	0.00
D3020	Heat Generating Systems	0.000	1	LS	217700.00	217700	1.98
D3030	Cooling Generating Systems	0.000	1	LS	326100.00	326100	2.97
D3040	Distribution Systems	0.000	1	LS	3926501.00	3926501	35.74
D3050	Terminal & Package Units	0.002	177	EA	25311.23	448028	4.08
D3060	Controls and Instrumentation	1.000	109855	SF	5.00	549275	5.00
D3070	Systems Testing & Balancing	1.000	109855	SF	0.80	87884	0.80
D3090	Other HVAC Systems & Equipment	0.000	1	LS	215770.00	215770	1.96
D40	FIRE PROTECTION					\$582,473	5.30
D4010	Sprinklers	0.010	1079	EA	440.21	474793	4.32
D4020	Standpipes	0.000	23	EA	1288.26	29630	0.27
D4030	Fire Protection Specialties	0.000	1	EA	30000.00	30000	0.27
D4090	Other Fire Protection Systems	0.000	1	LS	48050.00	48050	0.44
D50	ELECTRICAL					\$4,146,850	37.75
D5010	Electrical Service and Distribution	1.000	109855	SF	4.27	468583	4.27
D5020	Lighting & Branch Wiring	1.000	109855	SF	15.08	1656178	15.08
D5030	Communications & Security	1.000	109855	SF	13.06	1434902	13.06
D5090	Other Electrical Systems	1.000	109855	SF	5.35	587187	5.35
E10	EQUIPMENT					\$602,250	5.48
E1010	Commercial Equipment	0.000	1	LS	405810.00	405810	3.69
E1020	Institutional Equipment	0.000	27	LF	750.00	20250	0.18
E1030	Vehicular Equipment					0	0.00
E1090	Other Equipment	0.000	1	LS	176190.00	176190	1.60
E20	FURNISHINGS					\$1,008,758	9.18
E2010	Fixed Furnishings	0.102	11216	SF	10.16	113933	1.04
E2020	Movable Furnishings	0.000	1	LS	894825.00	894825	8.15
F10	SPECIAL CONSTRUCTION					\$0	0.00
F1010	Special Structures					0	0.00
F1020	Integrated Construction					0	0.00
F1030	Special Construction Systems					0	0.00
F1040	Special Facilities					0	0.00
F1050	Special Controls and Instrumentation					0	0.00
F20	SELECTIVE BUILDING DEMOLITION					\$297,150	0.8%
F2010	Building Elements Demolition					0	0.00
F2020	Hazardous Components Abatement	0.000	1	LS	297150.00	297150	2.70
Building Trade Cost without Design Allowance:						\$36,405,911	100.0%
Design & Pricing Contingency			10.00%			\$3,640,591	
Escalation Spring 2022			5.00%			\$2,002,325	
CMR's Construction Contingency			2.50%			\$1,051,221	
General Conditions			5.00%			\$2,155,002	
General Reqmts			3.50%			\$1,583,927	
CM Fee			2.50%			\$1,170,974	
Bonds and Insurance			2.00%			\$960,199	
Permits - Waived			0.00%			\$0	
TOTAL - BUILDING CONSTRUCTION COST (BCC)						\$48,970,150	445.77

Level 1	
Major Group Elements	
A. SUBSTRUCTURE	\$2,595,464
B. SHELL	\$11,637,248
C. INTERIORS	\$7,772,864
D. SERVICES	\$12,492,177
E. EQUIPMENT & FURNISHINGS	\$1,611,008
F. SPECIAL CONSTRUCTION & DEMOLITION	\$297,150
G. SITEWORK	\$8,899,273
X & Z. FIELD REQ'S, OFFICE OVERHEAD & PROFIT,	
AND ALLOWANCES	\$15,635,515
Project Total	\$60,940,699

PARAMETERS	
Name	Florence Roche ES
Location	Groton, MA
Facility Type	Elementary School
Cost Index	100.0
Estimate Classification	Class 3 (Preliminary Design)
Reference	
Estimate Date	12/8/2020
Bid Date	5/1/2022
Start Date	5/1/2022
Finish Date	12/16/2024
Design GFA	109855 sf
Program GFA	71000 sf
Difference	38855 sf
TSA	435464 sf
FPA	63874 sf
NSA	371590 sf

ABBREVIATIONS	
TSA: Total Site Area	
FPA: Foot Print Area	
GFA: Gross Floor Area	
NSA: Net Site Area	
BTC: Building Trade Cost	
BCC: Building Construction Cost	
STC: Sitework Trade Cost	
SCC: Sitework Construction Cost	
TCC: Total Construction Cost	

NOTES	
1.	The classification conforms to ASTM Designation E1557-96 "Standard Classification of Building Elements and Related Sitework - UNIFORMAT II", E2083-01 "Standard Classification of Filed Requirements and Office Overhead & Profit", and E2168 "Standard Classification of Allowances, Contingencies and Reserves".
2.	The "Building Trade Cost without Design Allowance" is designated as 100% value for the project; this figure is the Design-to-Cost (DTC) objective for designers based on trade level costing.
3.	Construction contingencies (part of the project costs) and taxes are not included in the summaries.



UNIFORMAT II ELEMENTAL COST SUMMARY AND ANALYSIS

Table 2: SITEWORK

LEVEL 2 GROUP ELEMENTS		ELEMENT				Cost per	% Trade
Level 3 Element		Ratio	Quantity	UoM	Unit Rate	Unit NSA	Cost
G10	SITE PREPARATION					\$1,966,742	\$5.29
G1010	Site Clearing	1.647	180930 sf		1.57	283560	0.76
G1020	Site Demolition and Relocations	3.208	352375 sf		1.77	624441	1.68
G1030	Site Earthwork					613741	1.65
G1040	Hazardous Waste Remediation	0.000	1 LS		445000.00	445000	1.20
G20	SITE IMPROVEMENTS					\$4,914,274	\$13.22
G2010	Roadways	0.181	19879 sf		3.13	62199	0.17
G2020	Parking Lots	0.896	98437 sf		6.43	632815	1.70
G2030	Pedestrian Paving	0.404	44382 sf		22.11	981367	2.64
G2040	Site Development	0.000	1 ls		2088664.00	2088664	5.62
G2050	Landscaping	0.000	1 ls		1149229.00	1149229	3.09
G30	SITE MECHANICAL UTILITIES					\$1,573,000	\$4.23
G3010	Water Supply	0.000	1 ls		209750.00	209750	0.56
G3020	Sanitary Sewer	0.012	1366 lf		109.77	149950	0.40
G3030	Storm Sewer	0.059	6493 lf		183.63	1192290	3.21
G3040	Heating Distribution					0	0.00
G3050	Cooling Distribution					0	0.00
G3060	Fuel Distribution					21010	0.06
G3090	Other Site Mechanical Utilities					0	0.00
G40	SITE ELECTRICAL UTILITIES					\$445,257	\$1.20
G4010	Electrical Distribution	0.000	1 LS		270900.00	270900	0.73
G4020	Site Lighting	0.000	1 LS		127820.00	127820	0.34
G4030	Site Communications & Security	0.003	321 lf		144.98	46537	0.13
G4090	Other Site Electrical Utilities					0	0.00
G90	OTHER SITE CONSTRUCTION					\$0	\$0.00
G9010	Service and Pedestrian Tunnels					0	0.00
G9090	Other Site Systems					0	0.00
Sitework Trade Cost without Design Allowance:						\$8,899,273	100.0%
Design & Pricing Contingency			10.00%			\$889,927	
Escalation Spring 2022			5.00%			\$489,460	
CMR's Construction Contingency			2.50%			\$256,967	
General Conditions			5.00%			\$526,781	
General Reqrts			3.50%			\$387,184	
CM Fee			2.50%			\$286,240	
Bonds and Insurance			2.00%			\$234,717	
Permits - Waived			0.00%			\$0	
TOTAL - SITEWORK CONSTRUCTION (SCC)						\$11,970,549	\$23.95

Level 1	
Major Group Elements	
A. SUBSTRUCTURE	\$2,595,464
B. SHELL	\$11,637,248
C. INTERIORS	\$7,772,864
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Start Date	5/1/2022
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Design GFA	109855 sf
Program GFA	71000 sf
Difference	38855 sf
TSA	435464 sf
FPA	63874 sf
NSA	371590 sf

Table 3: TOTAL CONSTRUCTION COST SUMMARY (TCC)

	Building		Sitework		Total		Cumulative	
	Cost	%	Cost	%	Cost	%	Cost	%
Elemental Cost (excluding Allowances)	36,405,911	59.7%	8,899,273	14.6%	45,305,184	74.3%	45,305,184	74.3%
Field Requirements, Office Overhead & Profit	2,155,002	3.5%	256,967	0.4%	2,411,969	4.0%	47,717,152	78.3%
Design Allowance	3,640,591	6.0%	889,927	1.5%	4,530,518	7.4%	52,247,671	85.7%
Inflation Allowance	0	0.0%	0	0.0%	0	0.0%	52,247,671	100.0%
Total Construction Cost (TCC)	48,970,150	80.4%	11,970,549	19.6%	60,940,699	100.0%		

Table 4: Remarks

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Florence Roche Elementary School - Schematic Design Submission

12/8/2020



CSI Masterformat Summary

GSF 109,855

Item #	DIVISION	SITWORK COST	NEW BUILDING COST	TOTAL CONSTRUCTION COST	TOTAL COST/SF
1	Div. 2 Demolition & Abatement	\$921,591	\$0	\$921,591	\$8.39
2	02 41 00 Site Demolition	\$624,441	\$0	\$624,441	\$5.68
3	02 41 00 Hazardous Material Abatement	\$297,150	\$0	\$297,150	\$2.70
4	Div. 3 Concrete	\$12,000	\$1,873,318	\$1,885,318	\$17.16
5	03 30 00 Cast-In-Place Concrete	\$12,000	\$1,873,318	\$1,885,318	\$17.16
6	Div. 4 Masonry	\$0	\$2,839,941	\$2,839,941	\$25.85
7	04 00 01 Masonry	\$0	\$2,839,941	\$2,839,941	\$25.85
8	Div. 5 Metals	\$0	\$4,131,833	\$4,131,833	\$37.61
9	05 12 00 Structural Steel	\$0	\$3,098,739	\$3,098,739	\$28.21
10	05 31 00 Steel Decking	\$0	\$530,089	\$530,089	\$4.83
11	05 00 01 Metal Fabrications	\$0	\$503,005	\$503,005	\$4.58
12	Div. 6 Wood & Plastics	\$0	\$664,794	\$664,794	\$6.05
13	06 10 00 Rough Carpentry	\$0	\$170,624	\$170,624	\$1.55
14	06 20 00 Finish Carpentry	\$0	\$332,220	\$332,220	\$3.02
15	06 40 00 Architectural Woodwork	\$0	\$161,950	\$161,950	\$1.47
16	Div. 7 Thermal & Moisture Protection	\$0	\$2,929,325	\$2,929,325	\$26.67
17	07 00 01 Waterproofing, Dampproofing & Caulking	\$0	\$118,916	\$118,916	\$1.08
18	07 00 02 Roofing & Flashing	\$0	\$1,425,853	\$1,425,853	\$12.98
19	07 21 00 Thermal Insulation	\$0	\$355,192	\$355,192	\$3.23
20	07 27 26 Fluid Applied Air Barriers	\$0	\$445,467	\$445,467	\$4.06
21	07 42 43 Composite Metal Panels	\$0	\$469,490	\$469,490	\$4.27
22	07 81 00 Applied Fireproofing	\$0	\$0	\$0	\$0.00
23	07 84 00 Firestopping	\$0	\$54,407	\$54,407	\$0.50
24	07 95 13 Construction & Expansion Joints	\$0	\$60,000	\$60,000	\$0.55
25	Div. 8 Openings	\$0	\$1,925,855	\$1,925,855	\$17.53
26	08 00 01 Aluminum Windows/Storefronts/Curtainwall	\$0	\$1,390,255	\$1,390,255	\$12.66
27	08 00 02 Glazing	\$0	\$0	\$0	\$0.00
28	08 11 13 Doors and Frames	\$0	\$288,400	\$288,400	\$2.63
29	08 31 00 Access Doors and Panels	\$0	\$0	\$0	\$0.00
30	08 33 23 Overhead Coiling Doors	\$0	\$24,000	\$24,000	\$0.22
31	08 71 00 Door Hardware	\$0	\$213,200	\$213,200	\$1.94
32	08 90 00 Louvers and Vents	\$0	\$10,000	\$10,000	\$0.09
33	Div. 9 Finishes	\$0	\$6,276,875	\$6,276,875	\$57.14
34	09 00 02 Tile	\$0	\$341,536	\$341,536	\$3.11
35	09 00 05 Resilient Flooring	\$0	\$534,317	\$534,317	\$4.86
36	09 00 07 Terrazzo Flooring	\$0	\$519,070	\$519,070	\$4.73
37	09 00 09 Painting	\$0	\$259,546	\$259,546	\$2.36
38	09 29 00 GWB, Lath and Plastering	\$0	\$3,238,255	\$3,238,255	\$29.48
39	09 50 03 Acoustical Ceilings	\$0	\$892,844	\$892,844	\$8.13
40	09 64 00 Wood Flooring	\$0	\$19,860	\$19,860	\$0.18
41	09 64 66 Wood Athletic Flooring	\$0	\$112,094	\$112,094	\$1.02
42	09 67 66 Fluid Applied Flooring	\$0	\$32,000	\$32,000	\$0.29
43	09 68 00 Carpet	\$0	\$22,039	\$22,039	\$0.20
44	09 72 00 Wallcoverings/FRP	\$0	\$65,416	\$65,416	\$0.60
45	09 84 14 Acoustic Panels	\$0	\$239,899	\$239,899	\$2.18
46	Div. 10 Specialties	\$0	\$485,642	\$485,642	\$4.42
47	10 11 16 Markerboards	\$0	\$134,000	\$134,000	\$1.22
48	10 14 00 Signage	\$0	\$53,142	\$53,142	\$0.48
49	10 21 13 Toilet Partitions	\$0	\$35,750	\$35,750	\$0.33
50	10 22 28 Folding Partitions	\$0	\$167,000	\$167,000	\$1.52
51	10 28 13 Toilet Accessories	\$0	\$83,050	\$83,050	\$0.76
52	10 44 00 Safety Specialties	\$0	\$10,000	\$10,000	\$0.09
53	10 51 13 Metal Lockers	\$0	\$2,700	\$2,700	\$0.02
54	Div. 11 Equipment	\$0	\$602,250	\$602,250	\$5.48
55	11 13 00 Loading Dock Equipment	\$0	\$0	\$0	\$0.00
56	11 31 00 Appliances	\$0	\$6,000	\$6,000	\$0.05

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Florence Roche Elementary School - Schematic Design Submission

12/8/2020



CSI Masterformat Summary

GSF 109,855

Item #	DIVISION	SITework COST	NEW BUILDING COST	TOTAL CONSTRUCTION COST	TOTAL COST/SF
57	11 40 00 Food Service Equipment	\$0	\$405,810	\$405,810	\$3.69
58	11 52 13 Projection Screens	\$0	\$25,000	\$25,000	\$0.23
59	11 61 00 Theatre Equipment	\$0	\$20,250	\$20,250	\$0.18
60	11 66 23 Gymnasium Equipment	\$0	\$116,340	\$116,340	\$1.06
61	11 66 53 Gynasium Dividers	\$0	\$21,350	\$21,350	\$0.19
62	11 90 00 Miscellaneous Equipment	\$0	\$7,500	\$7,500	\$0.07
63	Div. 12 Furnishings	\$0	\$1,008,758	\$1,008,758	\$9.18
64	12 24 00 Window Shades	\$0	\$94,388	\$94,388	\$0.86
65	12 30 00 Casework	\$0	\$894,825	\$894,825	\$8.15
66	12 48 13 Entrance Floor Mats and Frames	\$0	\$19,545	\$19,545	\$0.18
67	Div. 13 Special Construction	\$36,000	\$0	\$36,000	\$0.33
68	13 34 00 Bleachers	\$36,000	\$0	\$36,000	\$0.33
69	Div. 14 Conveying Systems	\$0	\$200,000	\$200,000	\$1.82
70	14 00 01 Elevators	\$0	\$200,000	\$200,000	\$1.82
71	Div. 21 Fire Suppression	\$0	\$582,473	\$582,473	\$5.30
72	21 00 00 Fire Suppression	\$0	\$582,473	\$582,473	\$5.30
73	Div. 22-26 Mechanical, Plumbing, Electrical	\$404,227	\$11,704,702	\$12,108,929	\$110.23
74	22 00 00 Plumbing	\$0	\$1,786,596	\$1,786,596	\$16.26
75	23 00 00 HVAC	\$0	\$5,771,257	\$5,771,257	\$52.54
76	26 00 00 Electrical	\$404,227	\$4,146,849	\$4,551,076	\$41.43
77	Div. 31-33 Earthwork	\$8,705,598	\$0	\$8,705,598	\$79.25
78	31 00 00 Earthwork	\$2,060,975	\$0	\$2,060,975	\$18.76
79	31 10 00 Site Preparation & Clearing	\$278,515	\$0	\$278,515	\$2.54
80	31 25 00 Erosion Control	\$188,920	\$0	\$188,920	\$1.72
81	32 10 00 Pavement, Curbing, Edging	\$1,019,987	\$0	\$1,019,987	\$9.28
82	32 13 13 Site Concrete	\$698,329	\$0	\$698,329	\$6.36
83	32 31 00 Site Improvements	\$1,706,392	\$0	\$1,706,392	\$15.53
84	32 31 14 Chainlink Fencing	\$30,250	\$0	\$30,250	\$0.28
85	32 29 00 Landscaping	\$1,149,230	\$0	\$1,149,230	\$10.46
86	33 10 00 Water Distribution	\$209,750	\$0	\$209,750	\$1.91
87	33 30 00 Sanitary Sewerage	\$149,950	\$0	\$149,950	\$1.36
88	33 40 00 Storm Drainage Systems	\$1,192,290	\$0	\$1,192,290	\$10.85
89	33 50 00 Fuel Distribution	\$21,010	\$0	\$21,010	\$0.19
90					
91	Subtotal	\$10,079,416	\$35,225,766	\$45,305,182	\$412.41
92					
93	Design & Pricing Contingency	\$889,928	\$3,640,591	\$4,530,519	
94	Escalation Spring 2022	\$489,460	\$2,002,325	\$2,491,785	
95	CMR's Construction Contingency	\$256,967	\$1,051,221	\$1,308,187	
96	General Conditions	\$526,781	\$2,155,002	\$2,681,784	
97	General Requirements	\$387,184	\$1,583,927	\$1,971,111	
98	CM Fee	\$286,240	\$1,170,974	\$1,457,214	
99	Bonds & Insurance	\$234,717	\$960,199	\$1,194,916	
100	Permits - Waived	\$0.00	\$0.00	\$0	
101	Subtotal	\$3,071,277	\$12,564,239	\$15,635,516	
102	TOTAL CONSTRUCTION COST	\$13,150,692	\$47,790,009	\$60,940,699	

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A10 Foundations

A1010	Standard Foundations	63832 ls	26.47	\$1,689,355
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Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
			1280	CY	Total	
100	<u>Concrete</u>	y	63831	sf		
105	<u>Frost Wall footings; 36" W x 18"D</u>					
110	Frost Wall footings;Formwork		5085	sf	13.00	\$66,105
115	Frost Wall footings;Re-bar		35375	lbs	1.30	\$45,988
120	Frost Wall footings;Concrete material; 4,000 psi		283	cy	130.00	\$36,790
125	Frost Wall footings;Footing under Gym interior wall-Complete		43	cy	650.00	\$27,950
130	Frost Wall footings;Placing concrete		283	cy	125.00	\$35,375
135	<u>Frost Walls ; 16" thick x 4'Dp</u>					
140	Frost Walls ; Formwork		13560	sf	13.00	\$176,280
145	Frost Walls ; Re-bar		50247	lbs.	1.30	\$65,322
150	Frost Walls ; Concrete material; 4,000 psi		335	cy	130.00	\$43,548
155	Frost Walls ; Placing concrete		335	cy	125.00	\$41,873
160	Frost Walls ; Form shelf		1600	lf	5.00	\$8,000
165	Add for elevator walls and mat slab-complete		10	cy	1500.00	\$15,000
170	<u>Int Spread Footings; 9ft x 9ft x 2ft</u>					
175	Int Spread Footings;Formwork		4176	sf	13.00	\$54,288
180	Int Spread Footings;Re-bar		34800	lbs	1.30	\$45,240
185	Int Spread Footings;Concrete material; 4,000 psi		348	cy	130.00	\$45,240
190	Int Spread Footings;Placing concrete		348	cy	125.00	\$43,500
195	Int Spread Footings;Set anchor bolts grout plates		58	ea	150.00	\$8,700
200	<u>Ext Spread Footings; 8ft x 8ft x 2ft</u>					
180	Ext Spread Footings;Formwork		3520	sf	13.00	\$45,760
185	Ext Spread Footings;Re-bar		26100	lbs	1.30	\$33,930
190	Ext Spread Footings;Concrete material; 4,000 psi		261	cy	130.00	\$33,930
195	Ext Spread Footings;Placing concrete		261	cy	125.00	\$32,625
200	Ext Spread Footings;Set anchor bolts grout plates		55	ea	150.00	\$8,250
205	Piers / Pilasters		1	ls	35000.00	\$35,000
210						
215						
220						
225	<u>Waterproofing & Dampproofing</u>					
230	Dampproofing @ foundation walls		Not required			\$0
235						
240						
245	<u>Thermal Insulation</u>					
250	Insulation to foundation walls		6780	sf	2.50	\$16,950
255						
260	<u>Earthwork</u>					
265	Excavate& Remove TS & Fill within Footprint		6714	cy	12.00	\$80,568
270	Footprint-Export surplus material		10742	ton	10.00	\$107,424
275	Footprint-Import Structural fill to subgrade		7903	cy	30.00	\$237,090
280	Footprint-Place/Compact/Prep		7903	cy	10.00	\$79,030
285	Exc & backfill foundation walls & spread footings		3,400	cy	25.00	\$85,000
290	Supply new BF material-walls & spread footings		1000	CY	35.00	\$35,000

A10 Foundations

295	Perimeter foundation drain		950	lf	28.00	\$26,600
300	Dewatering for foundation work		12	wks	4000.00	\$48,000
305	Rock Removal allow per geotech at ftgs	y	1	ls	25000.00	\$25,000

A1020 Special Foundations \$0.00

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100						\$0.00
105						\$0.00
110						\$0.00
115						\$0.00

A1030 Slab on Grade 63981 sf 14.16 \$906,109

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Slab on grade; 5" thick	y	63981	sf		
105	Slab on grade;Reinforcement		67180	sf	0.75	\$50,385
110	Slab on grade;Concrete - 5" thick; 4,000 psi		987	cy	130.00	\$128,357
115	Slab on grade;Placing concrete		987	cy	85.00	\$83,926
120	Slab on grade;Finishing and curing concrete		63981	sf	3.50	\$223,934
125	FPF Elevator Pit & Slab		14	cy	850.00	\$11,900
130	Equipment pads; allow		1	ls	4000.00	\$4,000
135						
140	Waterproofing & Dampproofing					
145	Cementitious waterproofing to elevator pit		340	sf	12.00	\$4,080
150	Vapor barrier to slab on grade		63981	sf	0.45	\$28,791
155						
160	Thermal Insulation					
165	Slab on grade;Rigid insulation; 1"		63981	sf	2.25	\$143,957
170						
175	Earthwork					
180	Prep/Compact existing sub-grade		63981	sf	1.00	\$63,981
185	12" Compacted Crushed Stone below SOG		2370	cy	35.00	\$82,938
190	E+B for underslab plumbing		3060	lf	25.00	\$76,500
195	E&B for elevator pit		84	cy	40.00	\$3,360
200						

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B10 Superstructure

B1010 Floor Construction 45876 sf 42.05 \$1,929,139

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
	Slabs on Deck;	y	45876			
100	Slabs on Deck; WWF reinforcement		52757	sf	0.75	\$39,568
105	Concrete fill to metal deck; 6-1/2" thick; NW		966	cy	140.00	\$135,292
110	Slabs on Deck; Place and finish concrete		45876	sf	3.50	\$160,566
115	Rebar to decks		11469	lbs	1.30	\$14,910
120	Floor Structural Steel - #14/ sf per Narrative		321	tns	3800.00	\$1,220,302
125	3" Metal galvanized floor deck		45876	sf	4.00	\$183,504
130	FloorShear connectors		11482	ea	5.00	\$57,411
135	Fireproofing		0	sf	10.00	\$0
140	Fire stopping floors		45876	sf	0.75	\$34,407
145	Floor-Premium for HSS steel		1	ls	25000.00	\$25,000
150	Floor-Allowance for building expansion joint systems		1	ls	25000.00	\$25,000
155	Framing and subfloor for platform and ramp- Fire treated per code narrative		1106	sf	30.00	\$33,180

B1020 Roof Construction 54759 sf 39.97 \$2,188,859

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Roof Area		50749	sf		
105	Gym and Cafeteria Roof Area		13232	sf		
110	Roof-WWF reinforcement		2500	sf	0.65	\$1,625
115	Roof-Concrete fill to metal deck; 5" thick; lightweight		53	cy	140.00	\$7,373
120	Roof-Place and finish concrete		2500	sf	5.00	\$12,500
125	Roof-Reinforcing		5000	lbs	1.30	\$6,500
130	Roof-Structural Steel					\$0
135	Roof-Structural Steel - #14/ sf per Narrative		355	tns	3800.00	\$1,349,923
140	Roof-Structural Steel at Gym & Cafeteria - #13/ sf per Narrative		86	tns	3800.00	\$326,830
145	Additional Structural steel for Photovoltaic #					inc.
150	3" Metal galvanized roof decking	y	41527	sf	3.75	\$155,726
155	3" Acoustic galvanized Decking at Gym & Cafeteria	y	13232	sf	8.50	\$112,472
160	Add for additional acoustic deck		9222	sf	8.50	\$78,387
165	Steel for canopies		16.5	tns	3600.00	\$59,522
170	Steel supports for mechanical screens		10	TON	4800.00	\$48,000
175	Allowance for building expansion joint systems		1	LS	25000.00	\$25,000
180	Roof-Premium for HSS steel		1	ls	5000.00	\$5,000

B20 Enclosure

B2010 Exterior Walls 55656.7 SF 86.22 \$4,798,843

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	4.11-Type M2 Face brick Ironspot Blend Red		37539	SF	43.00	\$1,614,177
105	4.12-Type M3 Face brick Velour Blend Blond		6548	SF	39.00	\$255,372
110	4.13-Alternating courses of M2 & M3 Face brick. M2 protudes out 3/4"		1605	SF	41.00	\$65,805
115	4.10 Type M-1 Calcium Silicate 8"x24"		4070	SF	45.00	\$183,150
120	4.40 Cast Stone Sill - 4"H		768	LF	37.00	\$28,416
125	4.40 Cast Stone Header - 16"H		762	LF	100.00	\$76,200
130	7.70 Prefinished 24" Morin Metal Wall Panel with trim pieces and furring		1787	SF	75.00	\$134,025
135	7.71 Prefinished 12" Morin Metal Wall Panel with trim pieces and furring		2305	SF	65.00	\$149,825
140	7.72 Prefinished perforated Metal Panel with trim pieces and furring		2856	SF	65.00	\$185,640
145	10" LGMF back up with 5 1/2" mineral wool		44941	SF	13.00	\$584,233
150	8" CMU back up		5656	SF	30.00	\$169,680
155	3 1/2" C.I mineral wool at back up with thermal broken clips at LGMF back up		44941	SF	3.00	\$134,823
160	5" C.I mineral wool at back up with thermal broken clips at CMU back up		5656	SF	4.50	\$25,452
165	1/2" sheathing at LGMF back up		44941	SF	3.00	\$134,823
170	1/2" sheathing at CMU back up		5656	SF	5.00	\$28,280
175	Self adhered rubberized asphalt membrane air-vapor barrier at back up over sheathing	y	55657	SF	6.75	\$375,683
180	Interior GWB on inside face of exterior LGMF		44941	SF	3.00	\$134,823
185	Closed cell spray foam ins at all perimeter beams of ext wall		3401	LF	10.00	\$34,010
190	Steel lintels at exterior brick venner		2161	LF	35.00	\$75,635
195	Seal windows and doors to air barrier	See B2020				\$0
200	5.17 Structural wall tie with steel plate connections		9	EA	750.00	\$6,750
205	Exterior Staging		50597	SF	3.00	\$151,791
210	Ext 3" x 24" painted alum box letters		19	EA	300.00	\$5,700
215	Misc. sealants		1	LS	50000.00	\$50,000
220	HPL at exterior soffits on suspension system		3891	SF	50.00	\$194,550

B2020 Exterior Windows 9979 SF 107.08 \$1,068,562

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	8.40 Ext Storefront with insulated glazing	y	8148	SF	90.00	\$733,320
105	8.44 Ext Curtain wall with insulated glazing	y	1564	SF	140.00	\$218,960
110	8.45 Ext Curtain wall with spandral glazing	y	267	SF	140.00	\$37,380
115	Caulk perimeter of all storefront & CW-both sides		10484	LF	3.50	\$36,694

B20 Enclosure

120		1 LS	10000.00	\$10,000
	Allowance for louvers specified but not yet located			
125	Allowance for alum and glass elevator vents per spec. Code narrative says that smoke venting is not required in elevator.	0 LS	0.00	\$0
130	Seal windows and doors to air barrier	5368 LF	6.00	\$32,208

B2030 Exterior Doors 24 EA 4220.08 \$101,282

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Exterior Aluminim doors with glass and hardware	y	18	EA	4500.00	\$81,000
105	Exterior dble flush HM door, frame and hardware	y	4	EA	3000.00	\$12,000
110	Exterior dble HM door with vision lite, frame and hardware	y	1	EA	3700.00	\$3,700
115	Exterior sgle flush HM door, frame and hardware	y	1	EA	2500.00	\$2,500
120	Paint exterior HM doors and frames		6	EA	200.00	\$1,200
125	Caulk perimeter of all frames-both sides		252	LF	3.50	\$882
130						\$0

B30 Roofing

B3010 Roof Coverings \$1,464,763

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Typ TPO roof-complete system per A350, lapped up and over wood blocking at perimeter wall	y	68988	SF	18.50	\$1,276,278
105	Perimeter cap flashing with fascia on 18" deep ext wall, includes strip flashing under cap		2065	LF	45.00	\$92,925
110	Perimeter flashing with fascia at perimeter of canopies, etc.		520	LF	30.00	\$15,600
115	Low roof to upper wall flashing		1036	LF	25.00	\$25,900
120	Allowance to flash roof screen supports		6	EA	750.00	\$4,500
125	Wood blocking under cap flashing - 18"W		2065	LF	18.00	\$37,170
130	1/2" plywood at flashing - 12"W		2065	LF	6.00	\$12,390
135	Alum or steel guardrails at roof edge above kitchen		Not Required per VE			\$0
140						\$0
145						\$0

B3020 Roof Openings \$85,800

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	7.73 Roof hatch		2	EA	3000.00	\$6,000
105	8.42 Ext Storefront skylight with insulated glazing, top and sides included in quantity		501	SF	150.00	\$75,150
110	Build 2'H curb for skylight with base flashing		93	LF	50.00	\$4,650
115						\$0

C10 Interior Con

C1010 Partitions 117237.5 SF 24.92 \$2,922,045

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	GWB both sides of 3 5/8" steel studs - 15'H	y	47595	SF	13.75	\$654,431
105	Increase 3 5/8" to 6" studs		47595	SF	2.25	\$107,089
110	GWB one side of 3 5/8" steel studs - 15'H	y	7335	SF	11.00	\$80,685
115	GWB both sides of 6" steel studs - 9'H	y	234	SF	16.00	\$3,744
120	GWB both sides of 6" steel studs - 15'H	y	44625	SF	16.00	\$714,000
125	GWB one side of 6" steel studs - 15'H	y	945	SF	13.25	\$12,521
130	GWB both sides of 6" steel studs - 24'H	y	1824	SF	17.50	\$31,920
135	Increase 6" studs to 10"		47628	SF	6.50	\$309,582
140	Shaftwall liner on C-H studs	y	5910	SF	17.00	\$100,470
145	Add for level 5 finish at Lobby, Corridors, Stairs and Cafetorium		42789	SF	1.50	\$64,184
150	Add for Fire Rated partitions		1	LS	20000.00	\$20,000
155	Add for impact resistant surfaces on partitions		1	LS	50000.00	\$50,000
160	Add for moisture resistant surfaces on partitions		10976	LS	0.50	\$5,488
165	8" CMU int gym walls - 15'H	y	1935	SF	30.00	\$58,050
170	8" CMU int gym walls - 36'H	y	4644	SF	33.00	\$153,252
175	8" CMU int elev shaft - 30'H		1260	SF	30.00	\$37,800
180	Add for polished or ground faced CMU per spec (not yet indicated)		1	LS	15000.00	\$15,000
185	Interior storefront (assume 9'H)	y	1411	SF	90.00	\$126,945
190	Foldable interior storefront (Nanawall) Manually operated. To be designed.		1	LS	50000.00	\$50,000
195	Acoustical Folding Operable wall- 13'H Manually operated at Platform	y	780	SF	150.00	\$117,000
200	Wood blocking in partitions and backboards		109855	SF	0.80	\$87,884
205	Caulking and sealants		1	LS	40000.00	\$40,000
210	Expansion joints in drywall		1	LS	10000.00	\$10,000
215	Seismic clips to CMU		1	LS	14000.00	\$14,000
220	Miscellaneous metals to CMU		1	LS	23000.00	\$23,000
225	Column covers		1	LS	15000.00	\$15,000
230	Firestopping		1	LS	20000.00	\$20,000

C1020 Interior Doors 182 Leafs 3665.53 \$667,126

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Aluminum;					\$0
105	Single aluminum door only & hardware (no frame)		4	EA	3500.00	\$14,000
110	Single aluminum doors, frames & hardware		2	EA	4500.00	\$9,000

C10 Interior Con

115 Single aluminum doors, frames with 12"W sidelight & hardware	7 EA	5000.00	\$35,000
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C10 Interior Con

120	Double aluminum doors, frames & hardware	2 EA	8000.00	\$16,000
125	Double aluminum doors, frames with 12"W sidelights ea side & hardware	5 EA	8700.00	\$43,500
130	FSC Wood;			\$0
135	Single clear maple veneer wood door with HM frame	88 EA	950.00	\$83,600
140	Single clear maple veneer wood door with HM frame & 12"W sidelight	68 EA	1600.00	\$108,800
145	Double clear maple veneer wood door with HM frame	9 EA	1800.00	\$16,200
150	Double clear maple veneer wood door 3-6x8-0 with HM frame, 2 hour rated. With 18" transom window	0 EA	2600.00	\$0
155	Double clear maple veneer wood door 3-6x9-6 with HM frame, 2 hour rated.	4 EA	2600.00	\$10,400
160	Add sound gasketing at doors	19 EA	500.00	\$9,500
165	Stainless Steel OH coiling door-motor operated - 20' wide, Full height	1 EA	18000.00	\$18,000
170	Stainless Steel OH coiling door-manual operation - 9' wide, at tray drop down. Assumed only 5'H.	1 EA	6000.00	\$6,000
175	Door hardware	y 182 Leafs	850.00	\$154,700
180	Paint HM frames	169 EA	110.00	\$18,590
185	Caulk perimeter of all frames	7096 LF	3.50	\$24,836
190	Card readers	1 LS	24000.00	\$24,000
195	Security door at gen office/waiting	1 LS	25000.00	\$25,000
200	STC/Fire rated premiums	1 LS	25000.00	\$25,000
205	Door operators and operators	1 LS	25000.00	\$25,000

C1030	Fittings	1 LS	674447.00	\$674,447
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Ref	Item Description	Par. Qty?	Quantity	UOM	Rate	Sum
100	<u>Custom FSC wood, clear maple millwork</u>					\$0
105	Display cases		3	EA	7500.00	\$22,500
110	Sliding glass enclosed tackboards - corridors		12	EA	1500.00	\$18,000
115	Book cases-Quantity unknown.		1	LS	25000.00	\$25,000
120	Media center, admin and security desks		51	LF	750.00	\$38,250
125	<u>Solid plastic toilet partitions, fl mtd & OH brace</u>					\$0
130	Standard stall		14	EA	1300.00	\$18,200
135	HC stall		9	EA	1700.00	\$15,300
140	Urinal screen		3	EA	750.00	\$2,250
145	Toilet Partition Supports		23	EA	500.00	\$11,500
150	<u>Toilet Accessories</u>					\$0
155	Toilet Accessories for single use toilet rooms. Includes mirrors		26	EA	750.00	\$19,500
160	Toilet Accesories for custodian rooms.		1	EA	300.00	\$300
165	Toilet Accessories for gang toilet rooms (3 person use). Includes mirrors		2	EA	2400.00	\$4,800

C10 Interior Con

170	Add for baby changing tables	3 EA	4750.00	\$14,250
175	Accessories for gang toilet rooms (4 person use). Includes mirrors	6 EA	3200.00	\$19,200
180	Paper towel disp and soap disp at sinks other than toilet rooms	1 LS	25000.00	\$25,000
185	<u>Visual Display:</u>			\$0
190	16'x4' markerboard	45 EA	1100.00	\$49,500
195	12'x4' markerboard	3 EA	850.00	\$2,550
200	6'x4' markerboard	61 EA	450.00	\$27,450
205	6'x4' tackboard	59 EA	500.00	\$29,500
210	Allowance for Utility and closet shelving	1 LS	7500.00	\$7,500
215	Allowance for markerboards and tackboards.	1 EA	25000.00	\$25,000
220	Allowance for interior room signage	109855 SF	0.40	\$43,942
225	Allowance for building directory	1 EA	2000.00	\$2,000
230	Allowance for dedication plaque	1 EA	1500.00	\$1,500
235	Solid Bifold partitions, fabric covered, high STC, manually operated. At Media Center study rooms and OT/PT room	0 EA	10000.00	\$0
240	Allowance for Fire protection specialties, including fire extinguishers, AE devices and Knox boxes. Code narrative says fire extinguishers every 75' of travel distance. 10# ABC	1 LS	10000.00	\$10,000
245	Handrail at stage ramp	19 LF	170.00	\$3,230
250	Wall rail at stage ramp	53 LF	75.00	\$3,975
255	Painted steel guardrail with pickets overlooking Lobby near Decorative stair	51 LF	225.00	\$11,475
260	Add for misc. metal not yet identified	109855 SF	1.00	\$109,855
265	Solid surface Window sills (or engineered quartz)	1156 LF	45.00	\$52,020
270	Bleacher seating in Lobby near stair B	98 SF	150.00	\$14,700
275	Platform seating in STEAM	163 SF	150.00	\$24,450
280	Wooden bleacher seating in Corr near Kiln	63 SF	150.00	\$9,450
285	Wooden bench seating	80 LF	120.00	\$9,600
290	Lockers at kitchen and custodial	1 LS	2700.00	\$2,700
295				\$0

C20 Stairs

C2010 Stair Construction 4 EA 48996 \$195,985

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	<u>Typical access stair. Balustrade has wire mesh infill panels.</u>					\$0
105	Stairs A-complete with steel treads, stringers & guardrail with pickets	y	1	EA	30000.00	\$30,000
110	Stairs C&D-complete with steel treads, stringers & guardrail with pickets	y	2	EA	30000.00	\$60,000
115	Concrete infill in steel pan stairs and platforms		3	EA	5000.00	\$15,000
120	<u>Decorative stair. Balustrade has wire mesh infill panels.</u>					\$0
125	Stair B-complete with steel treads, stringers & guardrail with pickets	y	1	EA	75000.00	\$75,000
130						\$0
135	Steps to stage and operable lift platform 3'-8"W		9	EA	350.00	\$3,150
140	Handrail at stage and operable lift platform steps		15	LF	175.00	\$2,625
145	Wall rail at operable lift platform steps		3	LF	70.00	\$210
150	Retractable alum or steel ladder (16'H)		2	EA	5000.00	\$10,000
155						\$0

C2020 Stair Finishes 4 EA 16412.50 \$65,650

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Paint 4 stair systems	y	4	EA	2000.00	\$8,000
105	<u>Typical access stair. Balustrade has wire mesh infill panels.</u>					\$0
110	Rubber stair treads, risers - 78 each		78	EA	350.00	\$27,300
115	Rubber flooring at platforms		286	SF	10.00	\$2,860
120	<u>Decorative stair. Balustrade has wire mesh</u>					\$0
125	5"W terrazzo stair treads		22	EA	1000.00	\$22,000
130	Terrazzo landing		61	SF	90.00	\$5,490
135						\$0

C30 Finishes

C3010	Wall Finishes	192787 SF	4.09	\$787,848
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Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Ceramic tile for toilet rm wainscot walls 4"x12" glazed tile, thin set, cementitious grout. Assume 5'H	y	3245	SF	20.50	\$66,523
105	Ceramic tile for feature walls, at Lobby, 4"x12" glazed tile, thin set, cementitious grout. Assume 8'H	y	904	SF	20.50	\$18,532
110	Porc. tile for wainscot walls 12"x24" glazed tile, thin set, cementitious grout. At Lobby & Corridors. Not on finish schedule, just in narrative.		4720	SF	24.00	\$113,280
115	Ceramic tile for toilet rm full height walls 4"x12" glazed tile, thin set, cementitious grout. Assume 8'H	y	1512	SF	20.50	\$30,996
120	Ceramic tile for feature walls at Cafetorium, 4"x12" glazed tile, thin set, cementitious grout. Not shown on finish schedule, just in narrative. Assume west wall	y	600	SF	20.50	\$12,300
125	FRP panels in Kitchen, Trash room anbd Custodial Rooms. Assume 8'H	y	3368	SF	12.00	\$40,416
130	Wood Proscenium in Cafetorium		1	EA	25000.00	\$25,000
135	Tectum acoustical panels at perimeter of Gym-10'H		312	LF	180.00	\$56,160
140	Tectum acoustical panels at perimeter of STEAM Lab-6'H		138	LF	108.00	\$14,904
145	Tectum acoustical panels at perimeter of Art Rooms-6'H		260	LF	108.00	\$28,080
150	Acoustic reflector (pyramid shaped) panels at per of Music & Practice-6'H		413	LF	135.00	\$55,755
155	Allowance for acoustic wood slat wall panels at Lobby, Cafetorium, Media Ctr.		1200	SF	50.00	\$60,000
160	Acoustic wood perforated wall panels at Lobby, Cafetorium, and portion of Media Center. Not shown on finish schedule, just in narrative. FSC wood, clear maple, fire rated		1	LS	25000.00	\$25,000
165	Enviromental wall graphics, PVC free types applied at GA level 5 areas. Not shown on finish schedule, just in narrative.		1	LS	25000.00	\$25,000
170	Paint GWB partitions, water based, zero VOC latex	y	168197	SF	1.00	\$168,197
175	Paint CMU walls	y	14961	SF	1.10	\$16,457
180	Brick veneer in lobby		744	SF	42.00	\$31,248
185						\$0

C30 Finishes

C3020 Floor Finishes 91868 SF 13.95 \$1,281,636

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Ceramic tile for toilet rooms 2" sq unglazed porc tile, thin set, cementitious grout.	y	3833	SF	18.50	\$70,911
105	Wood athletic floor at Gymnasium, FSC wood, clear maple, with zero VOC	y	6019	SF	18.00	\$108,342
110	Wood performance floor at Platform, FSC wood, clear maple, with zero VOC	y	993	SF	20.00	\$19,860
115	Linoleum tile	y	61824	SF	6.25	\$386,400
120	Flocked flooring at Administrative areas and Offices. Basis of Design: Forbo; Flotex. Fin schedule says carpet.	y	3639	SF	7.50	\$27,295
125	Carpet tile, at other areas carpet tiles,	y	4081	SF	5.40	\$22,039
130	Epoxy terrazzo with custom graphics, at Cafetorium.	y	10924	SF	45.00	\$491,580
135	Resinous floor at kitchen		2000	SF	16.00	\$32,000
140	Bio based polyurethane floor (sanitary)	y	554	SF	15.00	\$8,310
145	Marble thresholds		23	EA	75.00	\$1,725
150	Tile base		1515	LF	18.00	\$27,270
155	Rubber base vented base		469	LF	8.00	\$3,752
160	Resilient base		12196	LF	3.00	\$36,588
165	Floor prep		70099	SF	0.65	\$45,564
170						\$0

C3030 Ceiling Finishes 95511 SF 12.33 \$1,178,127

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	GWB ceilings GWB-2	y	252	SF	15.00	\$3,780
105	Fire rated GWB ceilings GWB-1	y	484	SF	15.00	\$7,260
110	GWB soffits over cubbies 12"W	y	798	LF	45.00	\$35,910
115	GWB soffits over wall cabinets 18"W	y	484	LF	45.00	\$21,780
120	GWB soffits at cafetorium 9'H		169	LF	108.00	\$18,252
125	GWB soffits not yet defined		1	LS	100000.00	\$100,000
130	Paint GWB Ceilings & soffits		3781	SF	2.50	\$9,453
135	Acoustical ceiling tile ACT-1	y	44953	SF	5.75	\$258,480
140	Acoustical ceiling tile ACT-2 wet areas	y	7461	SF	7.25	\$54,092
145	Acoustical ceiling pyramid tiles ACT-3	y	2695	SF	13.00	\$35,035
150	Acoustical ceiling tile 24"x72" ACT-4	y	12473	SF	10.50	\$130,967

C30 Finishes

155	Suspended ceiling grid SUSP	y	1253 SF	20.00	\$25,060
160	Acoustical baffled ceiling BAF-1	y	3553 SF	20.00	\$71,060
165	Suspended soundscape panels 4'x6'4"	y	54 EA	900.00	\$48,600
170	Wood ceiling with acoustic treatment WD-1.	y	5391 SF	50.00	\$269,550
	Acoustic wood slat ceiling panels and metal suspension grid at Lobby, Cafetorium, and portion of Media Center, FSC wood, clear maple, NRC 0.90, with zero VOC clear polyurethane finish.				
175	Wood ceiling in Media Center	y	1000 SF	50.00	\$50,000
180	Exposed painted structure at Cafetorium, Gymnasium, STEAM Lab, Media Center, and Art/Kiln rooms	y	14660 SF	2.65	\$38,849
185					\$0

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D10 Conveying

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
D1010	Elevators & Lifts		2	EA	102500.00	\$205,000
100	Electric traction passenger elevator, 3500 pound capacity, MRL type, 2 stop	y	1	EA	175000.00	\$175,000
105	Operable lift at Platform - Electric vertical wheelchair lift, 750 pound capacity, 10 feet per minute speed, stainless steel finishes	y	1	EA	25000.00	\$25,000
110	Elevator pit ladder and sills		1	LS	5000.00	\$5,000

D20 Plumbing

D2010 Plumbing Fixtures 182 EA 1591.24 \$289,605

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Water closet - wall mount flush valve		40	EA	900.00	\$36,000
105	Water closet - wall mount flush valve ADA		8	EA	1050.00	\$8,400
110	Drinking fountain - bi-level w/ bottle fill		11	EA	2850.00	\$31,350
115	Lavatory - wall hung sensor faucet		31	EA	875.00	\$27,125
120	Lavatory - recess mounted sensor faucet		8	EA	950.00	\$7,600
125	Sink SS - manual faucet w/ eyewash		35	EA	1650.00	\$57,750
130	Sink SS - manual faucet (classroom)		42	EA	1200.00	\$50,400
135	Sink SS - manual faucet (art w/ solid interceptor)		3	EA	1350.00	\$4,050
140	Sink SS - manual faucet (exam)		1	EA	1200.00	\$1,200
145	Sink SS - manual faucet (kitchenette)		3	EA	1400.00	\$4,200
150	Mixing valves @ all sinks/lavs		130	EA	150.00	\$19,500
155	Fixture off-load & distribution	y	182	EA	65.00	\$11,830
160	Fixture Rough-in		182	EA	100.00	\$18,200
165	Kitchen fixture rough-in		1	LS	12000.00	\$12,000
170						\$0

D2020 Domestic Water Distribution 1 LS 418648.00 \$418,648

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Main Water Meter (install only)		1	EA	800.00	\$800
105	Sub-Water Meter (install only)		2	EA	425.00	\$850
110	Thermostatic mixing valve		1	EA	2800.00	\$2,800
115	Thermostatic mixing valve (kitchen 140 deg.)		1	EA	2800.00	\$2,800
120	Gas fired water heater (Model HTP ELX-400FVWHN with rack) (399 MBH)		2	EA	26500.00	\$53,000
125	316L SS HWH Domestic hot water storage tank (119 gal)		2	EA	2450.00	\$4,900
130	Hot water recirculation pump		2	EA	1800.00	\$3,600
135	Hot water recirculation pump (kitchen)		1	EA	1800.00	\$1,800
140	Expansion tank		1	EA	1200.00	\$1,200
145	Hose bibs (interior)		8	EA	185.00	\$1,480
150	Hose bibs (exterior)		9	EA	375.00	\$3,375
155	Shock absorbers		17	EA	250.00	\$4,250
160	4" Domestic water backflow preventor		1	EA	5500.00	\$5,500
165	6" Fire water service backflow preventor		1	EA	7750.00	\$7,750
170	Water service entrance piping		30	LF	125.00	\$3,750
175	4" Domestic CW water pipe - Mains (type L Cu. Solder)		1600	LF	52.85	\$84,560
180	Domestic HW recirc water pipe - Branch (type L Cu. Solder)		3200	LF	26.00	\$83,200

D20 Plumbing

185 Domestic water pipe - Branch (type L Cu. Solder)		3196 LF	16.50	\$52,734
190 Pipe Insulation (1/2" - 2")		6396 LF	5.15	\$32,939
195 Pipe Insulation (2 1/2" - 4")		1600 LF	10.85	\$17,360
200 Kitchen fit-out	y	1 LS	50000.00	\$50,000
205				\$0

D2030 Sanitary Waste 11650 LF 52.39 \$610,295

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Floor drains		10	EA	425.00	\$4,250
105	316L SS Floor drain		4	EA	1250.00	\$5,000
110	Floor / Wall cleanout		30	EA	250.00	\$7,500
115	Central grease interceptor (interior)		1	EA	10250.00	\$10,250
120	Kitchen local grease interceptor (interior)		2	EA	3200.00	\$6,400
125	Sewage ejector pumps		2	EA	15500.00	\$31,000
130	Elevator sump pump		1	EA	5500.00	\$5,500
135	Sanitary UG/ cast iron single hub & ftgs.	y	1780	LF	46.50	\$82,770
140	Sanitary AG/ cast iron no hub & ftgs.	y	9100	LF	39.50	\$359,450
145	Grease waste UG/ cast iron single hub & ftgs.	y	420	LF	190.00	\$79,800
150	Grease waste AG/ cast iron no hub & ftgs.	y	350	LF	52.50	\$18,375
155						\$0

D2040 Rain Water Drainage 2720 LF 112.35 \$305,600

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Roof drain		16	EA	525.00	\$8,400
105	Roof drain (Overflow)		16	EA	525.00	\$8,400
110	Floor / Wall cleanout		32	EA	250.00	\$8,000
115	Rainleader UG/ cast iron single hub & ftgs.	y	1280	LF	95.00	\$121,600
120	Rainleader AG/ cast iron no hub & ftgs.	y	1440	LF	105.00	\$151,200
125	Pipe Insulation (horizontal only)		640	LF	12.50	\$8,000
130						\$0

D2090 Other Plumbing Systems 8 LS 20306.00 \$162,448

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Emergency gas shut off valve		2	EA	3800.00	\$7,600

D20 Plumbing

105 2-1/2" Gas piping - generator sch. 40 ERW welded	125 LF	58.70	\$7,338
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D20 Plumbing

110	Gas piping - Mains sch. 40 ERW welded (3" and up)		320 LF	62.00	\$19,840
115	Gas piping - Branch sch. 40 T&C (1/2"-2-1/2")		1650 LF	29.50	\$48,675
120	Mech equipment gas connections (Ovens/Ranges)	y	4 LS	675.00	\$2,700
125	Kitchen equipment gas connections (Ovens/Ranges)	y	4 LS	450.00	\$1,800
130	Gas Meter (Connection Only)		1 LS	475.00	\$475
135	<u>Plumbing General Conditions</u>				\$0
140	Testing & disinfection		1 LS	4800.00	\$4,800
145	Coordination & management		1 LS	40000.00	\$40,000
150	Seismic restraints / bracing		1 LS	8000.00	\$8,000
155	Coring & patching / firestopping		1 LS	4500.00	\$4,500
160	Hoisting & rigging / floor loading		1 LS	6500.00	\$6,500
165	Shop drawings & submittals		1 LS	1600.00	\$1,600
170	Record drawings / as built		1 LS	2800.00	\$2,800
175	Equipment start up and inspection		1 LS	3600.00	\$3,600
180	Access panels - furnish only		12 EA	185.00	\$2,220
185					\$0

D30 HVAC

D3020 Heat Generating Systems 1 LS 217700.00 \$217,700

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Boiler - Fire-tube (hot water, nat. gas, 2,500 MBH)		3	EA	\$42,750.00	\$128,250
105	Boiler train piping		1	LS	\$15,000.00	\$15,000
110	Combustion air (12" galvanized)		60	LF	\$65.00	\$3,900
115	Boiler breaching (12" double wall stainless)		60	LF	\$285.00	\$17,100
120	Water heater combustion air (6" galvanized)		60	LF	\$40.00	\$2,400
125	Water heater breaching (6" double wall stainless)		60	LF	\$195.00	\$11,700
130	Boiler HW pump (400 Gpm / 25 HP)		2	EA	\$7,200.00	\$14,400
135	25 HP Variable Frequency Drive (VFD)		2	EA	\$7,200.00	\$14,400
140	Air separator		1	EA	3,200.00	\$3,200
145	Expansion Tank		1	LS	5,500.00	\$5,500
150	Water treatment system	y	1	LS	1,850.00	\$1,850
155						\$0

D3030 Cooling Generating Systems 1 LS 326100.00 \$326,100

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Air cooled chiller variable speed mag bearings (300 tons)		1	EA	\$260,000.00	\$260,000
105	Base mount pumps (480 gpm 30hp)		2	EA	\$8,200.00	\$16,400
110	30 HP Variable Frequency Drive (VFD)		2	EA	\$8,550.00	\$17,100
115	Air separator		1	EA	5,200.00	\$5,200
120	Expansion tank		1	EA	3,900.00	\$3,900
125	40% Glycol system fill	y	1	LS	18,000.00	\$18,000
130	50 Gallon glycol feed tank w/ pump		1	EA	5,500.00	\$5,500
135						\$0

D30 HVAC

D3040 Distribution Systems 1 LS 3926501.00 \$3,926,501

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	HW Pipe - Mains (Sched 10 Blk Steel)		4200	LF	\$38.00	\$159,600
105	HW Pipe - Branch (Type "L" Cu.)		7800	LF	\$24.50	\$191,100
110	Misc. valves, tags & fittings		1	LS	\$17,535.00	\$17,535
115	CW Pipe - Mains (Sched 10 Blk Steel)		4200	LF	\$41.50	\$174,300
120	CW Pipe - Branch (Type "L" Cu.)		7800	LF	\$24.50	\$191,100
125	Misc. valves, tags & fittings		1	LS	\$18,270.00	\$18,270
130	Pipe insulation - Mains		4200	LF	\$11.25	\$47,250
135	Pipe insulation - Branch		7800	LF	\$7.15	\$55,770
140	Refrigerant pipe w/ insulation		300	LF	\$32.50	\$9,750
145	A/C cond. drains/type "L" copper		180	LF	\$19.00	\$3,420
150	Heat trace (all piping above roof)	y	1	LS	\$25,000.00	\$25,000
155	AHU-1 (HW/CW Coil 12,000 Cfm)		12000	CFM	\$9.50	\$114,000
160	AHU-2 (HW/CW Coil 24,000 Cfm w/ energy recovery)		24000	CFM	\$12.00	\$288,000
165	AHU-3 (HW/CW Coil 24,000 Cfm w/ energy recovery)		24000	CFM	\$12.00	\$288,000
170	AHU-4 (HW/CW Coil 24,000 Cfm w/ energy recovery)		24000	CFM	\$12.00	\$288,000
175	AHU-5 (HW/CW Coil 12,000 Cfm w/ energy recovery)		12000	CFM	\$12.00	\$144,000
180	AHU-6 (HW/CW Coil 7,500 Cfm w/ energy recovery)		7500	CFM	\$12.00	\$90,000
185	MAU-1 (double wall/ HW/ supply/ fan MERV 8&13 filters)		5000	CFM	\$5.50	\$27,500
190	VFD (MAU-1)		1	EA	\$3,500.00	\$3,500
195	VFD (KEF-1)		1	EA	\$4,500.00	\$4,500
200	KEF-1 kitchen exhaust fan (Installation Only, material with Food Service Equipment)		6000	CFM	\$0.35	\$2,100
205	Kitchen exhaust hood (install only)		1	EA	\$5,500.00	\$5,500
210	Hood thermal and smoke monitoring system		1	LS	\$7,500.00	\$7,500
215	Dishwasher exhaust hood (install only)		1	EA	\$2,500.00	\$2,500
220	Dishwasher exhaust fan		1	EA	\$4,500.00	\$4,500
225	Nurses office exhaust fan		1	EA	\$1,500.00	\$1,500
230	Art Room exhaust fan		2	EA	\$1,200.00	\$2,400
235	Bathroom exhaust fans		4	LS	1,100.00	\$4,400
240	Mechanical / electrical / janitors rm. exhaust		1	LS	12000.00	\$12,000
245	Trash room exhaust fan (15 air changes/hr)		1	LS	1800.00	\$1,800
250	High volume overhead industrial grade ceiling fan (12'-ft diameter)		2	EA	12000.00	\$24,000
255	Elevator shaft roof ventilator		1	LS	1200.00	\$1,200
260	A/C cond. drains/type "L" copper		180	LF	19.00	\$3,420
265	Ductwork - Galvanized		85138	LBS	13.50	\$1,149,358

D30 HVAC

270 Ductwork accessories (RGD's, fire dampers, etc.)	109855 SF	0.75	\$82,391
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D30 HVAC

275 Grease duct - Double wall stainless steel - Factory built	120 LF	168.00	\$20,160
280 STEM Room exhaust fan - roof mounted	1 LS	6500.00	\$6,500
285 Kiln exhaust	1 LS	6500.00	\$6,500
290 Duct Silencers	1 LS	35000.00	\$35,000
295 Generator exhaust 10" (welded stainless)	60 LF	88.50	\$5,310
300 Insulation/ductwork/blanket wrap	68110 SF	4.60	\$313,306
305 Insulation ductwork - exterior wp wrap	9600 SF	9.85	\$94,560
310			\$0

D3050 Terminal & Package Units 177 EA 2531.23 \$448,028

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Displacement diffuser - Classrooms	y	66	EA	\$825.00	\$54,450
105	Displacement diffuser - kindergarten/larger class rms	y	33	EA	\$825.00	\$27,225
110	Radiant ceiling panels/24" wide (classrooms)		1900	LF	\$100.00	\$190,000
115	VAV box w/ controls (HW coil)	y	65	EA	\$995.00	\$64,675
120	Split DX A/C System 2-ton (Condenser / Indoor Fan)	y	3	EA	\$10,250.00	\$30,750
125	Cabinet Unit Heater	y	10	EA	\$2,600.00	\$26,000
130	Misc. terminal equipment (UH's, CUH's, etc.)		109855	SF	0.50	\$54,928
135						\$0

D3060 Controls and Instrumentation 109855 SF 5.00 \$549,275

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	DDC Controls / Building Management System	y	109855	SF	\$5.00	\$549,275
105						\$0
110						\$0

D3070 Systems Testing & Balancing 109855 SF 0.80 \$87,884

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Testing and balancing	y	109855	SF	0.80	\$87,884
105						\$0
110						\$0

D30 HVAC



D30 HVAC

D3090 Other HVAC Systems & Equipment 1 LS 215770.00 \$215,770

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Coordination & management		1	LS	\$130,000.00	\$130,000
105	Seismic restraints / bracing		1	LS	\$15,000.00	\$15,000
110	Hoisting & rigging / floor loading		1	LS	\$25,000.00	\$25,000
115	Shop drawings & submittals		1	LS	\$1,500.00	\$1,500
120	Record drawings / as builts		1	LS	\$4,900.00	\$4,900
125	Access panels - furnish only		30	EA	\$185.00	\$5,550
130	Coring & patching / firestopping		1	LS	\$12,000.00	\$12,000
135	Equipment start-up & inspection		1	LS	\$11,820.00	\$11,820
140	Temp HVAC heating	y	1	LS	\$10,000.00	\$10,000
145						

D40 Fire Protection

D4010 Sprinklers 1079 EA 440.21 \$474,793

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Sprinkler heads	y	1079	EA	78.00	\$84,127
105	Stainless steel sprinkler head (kitchen)		20	EA	108.00	\$2,160
110	Dry sprinkler head (loading dock)		8	EA	85.00	\$680
115	Sprinkler branch piping sch. 40		10786	LF	23.00	\$248,067
120	Sprinkler main piping sch. 10		3240	LF	42.00	\$136,080
125	Sprinkler main piping sch. 10 - risers at stairs		80	LF	46.00	\$3,680
130	6" double check valve backflow preventer		1	EA		w/ Plumbing
135						\$0

D4020 Standpipes 23 EA 1288.26 \$29,630

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Standpipe riser					NIC
105	Drain riser					NIC
110	6" Riser check valve					NIC
115	Wet alarm valve - 6"	y	1	EA	3,500.00	\$3,500
120	Zone flow control valve - 4" w/ flow / tamper	y	4	EA	3,225.00	\$12,900
125	Waterflow switch	y	5	EA	350.00	\$1,750
130	Tamper switch	y	5	EA	350.00	\$1,750
135	2-1/2" Hose valve	y	4	EA	390.00	\$1,560
140	Floor control valve assembly	y	2	EA	3,250.00	\$6,500
145	Storz Pumper Connection	y	1	EA	985.00	\$985
150	Electric water gong	y	1	EA	685.00	\$685
155						\$0

D4030 Fire Protection Specialties 1 EA 30000.00 \$30,000

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Dry system nitrogen generator (loading dock)	y	1	EA	30,000.00	\$30,000
105						\$0
110						\$0

D40 Fire Protection

D4090	Other Fire Protection Systems	1 LS	48050.00	\$48,050
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Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Hydraulic calculations	y	1	LS	3200.00	\$3,200
105	Testing & inspection		1	LS	3800.00	\$3,800
110	Drain & fill system		4	EA	1800.00	\$7,200
115	Coordination and management		1	LS	24500.00	\$24,500
120	Seismic restraints / bracing - includes design		1	LS	4500.00	\$4,500
125	Coring & patching / firestopping		1	LS	3000.00	\$3,000
130	Record drawings / as built		1	LS	1850.00	\$1,850
135						\$0
140						

D50 Electrical

D5010 Electrical Service and Distribution 109855 SF 4.27 \$468,583

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Main Switchboard "MSB" 2500A 3-Phase-480/277V (3000A frame)		1	EA	48525.00	\$48,525
105	Panelboards	y	109855	SF	1.45	\$159,290
110	Transformers - floor/wall mount		1	LS	45,000.00	\$45,000
115	Feeder (EMT/CU)		109855	SF	1.25	\$137,319
120	Photovoltaic Infrastructure (empty raceway)		1	LS	5,000.00	\$5,000
125	Short circuit / Selective Coordination study		1	LS	35,000.00	\$35,000
130	Misc. power distribution		109855	SF	0.35	\$38,449
135						\$0

D5020 Lighting & Branch Wiring 109855 SF 15.08 \$1,656,178

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	<u>Lighting & Lighting Controls</u>					
105	Lighting Controls (daylight harvesting, occupancy sensors, timers, switches etc.)	y	109855	SF	1.50	\$164,783
110	Cafetorium lighting Controls (allow)		1	LS	15,000.00	\$15,000
115	Lighting / Lighting Branch Wiring		109855	SF	8.00	\$878,840
120	Theatrical lighting and dimming package		1	LS	75,000.00	\$75,000
125	<u>Mechanical Equipment Power</u>					\$0
130	Heat trace equipment feed and connection (Heat trace by others)		1	LS	1,200.00	\$1,200
135	Glycol feed system feed and connection		1	EA	650.00	\$650
140	Air cooled chiller (300 tons) feed and connection		1	EA	6500.00	\$6,500
145	Base mount pumps (480 gpm 30hp) feed and connection		2	EA	995.00	\$1,990
150	30 HP Variable Frequency Drive (VFD) feed and connection		2	EA	995.00	\$1,990
155	Mini-splits (2-ton) indoor unit feed and connection		3	EA	850.00	\$2,550
160	Mini-splits (2-ton) outdoor unit feed and connection		3	EA	1600.00	\$4,800
165	AHU-1 (12,000 cfm) feed and connection		1	EA	1125.00	\$1,125
170	AHU-2, 3 & 4 (24,000 cfm) feed and connection		3	EA	1250.00	\$3,750
175	AHU-5 (12,000 cfm) feed and connection		1	EA	1125.00	\$1,125
180	AHU-6 (7,500 cfm) feed and connection		1	EA	1250.00	\$1,250
185	MAU-1 (5,000 cfm) feed and connection		1	EA	1000.00	\$1,000
190	Kitchen exhaust fan (6,000 cfm) feed and connection		1	EA	1200.00	\$1,200
195	Kitchen exhaust hood feed and connection		1	EA	900.00	\$900

D50 Electrical

200	Dishwasher exhaust fan feed and connection	1 EA	2500.00	\$2,500
205	Nurses office exhaust fan feed and connection	1 EA	1050.00	\$1,050
210	Art Room exhaust fan feed and connection	2 EA	1050.00	\$2,100
215	Bathroom exhaust fans feed and connection	4 LS	1050.00	\$4,200
220	Mechanical / electrical / janitors rm. exhaust feed and connection	1 LS	1000.00	\$1,000
225	Trash room exhaust fan (15 air changes/hr) feed and connection	1 LS	1000.00	\$1,000
230	High volume overhead industrial grade ceiling fan (12'-ft diameter) feed and connection	2 EA	950.00	\$1,900
235	Elevator shaft roof ventilator feed and connection	1 LS	Not Req'd	\$0
240	Gas fired water heater (Model HTP ELX-400FVWHN with rack) (399 MBH) feed and connection	2 EA	1050.00	\$2,100
245	Hot water recirculation pump feed and connection	2 EA	850.00	\$1,700
250	Hot water recirculation pump (kitchen) feed and connection			\$995
255	Gym circuits (scoreboards, curtain, scoreboard, etc.)	1 EA	995.00	
		1 LS	8500.00	\$8,500
260	Kitchen electrical equipment feeds and connections	2150 SF	25.00	\$53,750
265	Kiln feed and connection (60A)	2 EA	1250.00	\$2,500
270	Motorized window treatments	1 LS	8500.00	\$8,500
275	Variable frequency drive feed and connection	2 EA	995.00	\$1,990
280	Electric unit / cabinet unit heaters feed and connection	10 EA	650.00	\$6,500
285	Smart Board feed and connection	See below		\$0
290	Ultra-short throw interactive projectors feed and connection	55 EA	525.00	\$28,875
295	Misc. equipment wiring not yet defined	1 LS	25000.00	\$25,000
300	<u>Convenience Power</u>			\$0
305	Branch power devices and wiring (MC)	109855 SF	3.00	\$329,565
310	Power cord reels	8 EA	1100.00	\$8,800
315				\$0
320				\$0

D5030	Communications & Security	109855 SF	13.06	\$1,434,902
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Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	<u>Communications System</u>					
105	(3) 4" entrance conduits - interior		200	lf	28.75	\$5,750

D50 Electrical

110	Main Distribution Frame communicatyoins equipment room fit-out (racks, servers etc.)	1 LS	18,000.00	\$18,000
	UPS System - Stipulated Allowance	1 LS	50,000.00	\$50,000
115	Intermediate distribution telecommunications room fit-out	2 EA	8,500.00	\$17,000
120	Clock System	109855 SF	0.95	\$104,362
125	T/D Infrastructure (backboxes w/ stub to above)	109855 SF	0.45	\$49,435
130	Tel/data system (devices, wiring & terminations)	109855 SF	3.25	\$357,029
135	<u>Audio Visual System</u>			\$0
140	Speaker sound system (gym, cafetorium)	1 LS	30,000.00	\$30,000
	Long and Short Throw Projector Backbox and Conduit Stub, low voltage	55 EA	165.00	\$9,075
145	<u>A/V System Infrastructure - device backbox w/ stubb to above</u>	109855 SF	0.25	\$27,464
150	A/V equipment, devices and wiring			NIC
155	<u>Intercom System</u>			\$0
160	Intercom & paging system (equipment and wiring)	109855 SF	0.75	\$82,391
165	<u>Security System</u>			\$0
170	Security system (CCTV, access control, intrusion detection)	109855 SF	2.75	\$302,101
175	Fire Alarm System			\$0
180	Fire Alarm voice evacuation panel	1 LS	15,650.00	\$15,650
185	Fire Alarm annunciator panel	1 LS	3,000.00	\$3,000
190	Fire Alarm notification devices and wiring	y 109855 SF	1.85	\$203,232
195	Fire Alarm initiating devices and wiring	109855 SF	0.60	\$65,913
200	Fire Alarm final testing and certification	1 LS	7,500.00	\$7,500
205	Stair communication system	1 LS	15,000.00	\$15,000
210	Area of Rescue System	1 LS	12,000.00	\$12,000
215	BDA Antenna System	1 LS	60,000.00	\$60,000
220				\$0

D5090	Other Electrical Systems	109855 SF	5.35	\$587,187
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Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Diesel generator - 225KW in sound attenuated enclosure		1	EA	93,000.00	\$93,000
105	Load bank		1	EA	18,000.00	\$18,000
110	Roll-up generator connection		1	LS	8,500.00	\$8,500
115	100A Automatic transfer switches		1	EA	5,600.00	\$5,600
120	250A Automatic transfer switches		1	EA	9,250.00	\$9,250
125	Emergency distribution equipment	y	109855	SF	0.65	\$71,406
130	Optional stand-by distribution equipment		109855	SF	0.40	\$43,942
135	Emergency distribution feeders & distribution		109855	SF	0.25	\$27,464

D50 Electrical

140 Optional stand-by feeders & distribution	109855 SF	0.15	\$16,478
145 Grounding System	109855 SF	0.20	\$21,971
150 Lightning Protection System	109855 SF	0.50	\$54,928
155 Coordination and management	1 LS	100,000.00	\$100,000
160			
165 Seismic restraints	1 LS	4,000.00	\$4,000
170 Coring patching and firestopping	1 LS	8500.00	\$8,500
175 Record drawings and as built	1 LS	3800.00	\$3,800
180 Shop drawings and Submittals	1 LS	950.00	\$950
185 Temporary power and lights & service	109855 SF	0.70	\$76,899
190 Equipment rigging & distribution	1 LS	12000.00	\$12,000
195 Equipment start up and inspection	1 LS	10500.00	\$10,500
200			\$0
205			\$0

E10 Equipment

E1010 Commercial Equipment 1 LS 405810.00 \$405,810

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Food Service Equipment - see Crabtree McGrath Associates 9/24/20 report	y	1	LS	405810.00	\$405,810
105						\$0

E1020 Institutional Equipment 27 LF 750.00 \$20,250

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Theater curtain 10'H	y	27	LF	750.00	\$20,250
105						\$0

E1030 Vehicular Equipment \$0

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100						\$0
105						\$0

E1090 Other Equipment 1 LS 176190.00 \$176,190

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Athletic equipment					\$0
105	Basketball backstops		6	EA	9000.00	\$54,000
110	Volleyball equipment		1	EA	1600.00	\$1,600
115	Scoreboard		1	EA	10000.00	\$10,000
120	Shot clocks		2	EA	1600.00	\$3,200
125	Traverse climbing wall with fall pads		Deleted			\$0
125	Cargo climbing net		1	EA	1000.00	\$1,000
130	Climbing ropes		2	EA	250.00	\$500
135	Bleacher seating		1	LS	25000.00	\$25,000
140	Gym divider curtain		61	LF	350.00	\$21,350
145	Wall pads		263	LF	80.00	\$21,040
150	Manual and electric operated projection screens		1	LS	25000.00	\$25,000
155	Emergency eyewash/shower cabinets, at Mechanical Room.		1	EA	1500.00	\$1,500
160	Kiln Model KM-1027.		2	EA	3000.00	\$6,000
165	Appliances allowance-residential	y	1	LS	6000.00	\$6,000

E10 Equipment

170

\$0

E20 Furnishings

E2010	Fixed Furnishings	11216 SF	10.16	\$113,933
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Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Walk off grille	y	357	SF	45.00	\$16,065
105	Walk off mat	y	174	SF	20.00	\$3,480
110	Manually operated solar control privacy window shades, at exterior windows and interior door sidelites.	y	9785	SF	7.50	\$73,388
115	Electrically operated solar control privacy and black out window shades at Cafetorium	y	600	SF	25.00	\$15,000
120	Electrically operated black out shades at GYM	y	300	SF	20.00	\$6,000
125						\$0

E2020	Movable Furnishings	1 LS	894825.00	\$894,825
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E2030	Manufactured Casework			
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Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Base cabinets - FSC wood clear maple doors and drawers, with clear polyurethane finish		559	LF	300.00	\$167,700
105	Wall cabinets - FSC wood clear maple doors, with clear polyurethane finish		695	LF	275.00	\$191,125
110	Engineered quartz type solid surface counters counters with backspash		776	LF	150.00	\$116,400
115	Ultra-short throw interactive projector		48	EA		By FF&E
120	Add for tall 6'H storage cabinets at art & instrument storage and media storage		1	LS	20000.00	\$20,000
125	Open student wooden cubbies with lockable teacher storage		306	EA	1200.00	\$367,200
130	Shelving in Staff Workroom 242		24	LF	100.00	\$2,400
135	Media storage cabinets not yet defined	y	1	LS	25000.00	\$25,000
140	Mail slots		1	LS	5000.00	\$5,000
145						\$0

F20 Selective

F2020	Hazardous Components Abatement	1 LS	297150.00	\$297,150
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Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Asbestos abatement;					\$0
105	ACM floor tile		20000	SF	\$ 6.00	\$120,000
110	ACM floor tile mastic		25	LF	\$ 20.00	\$500
115	ACM black waterproofing mastic		1800	LF	\$ 20.00	\$36,000
120	ACM pipe insulation		225	LF	\$ 30.00	\$6,750
125	ACM yellow caulking at brick		25	LF	\$ 35.00	\$875
130	ACM black caulking on roof flashing		600	LF	\$ 35.00	\$21,000
135	LBP Compliance	y	1	Allow	\$ 2,500.00	\$2,500
125	Other Hazmat [boilers demo, equipment draining, recycling, white goods, etc.]		1	Allow	\$ 35,000.00	\$35,000
130	ACM removal at steam lines [insulation]		1	Allow	\$ 25,000.00	\$25,000
135	20% allowance for ACM not identified		1	Allow	20%	\$49,525
140						\$0
145						\$0

G10 Preparation

G1010 Site Clearing 180930 sf 1.57 \$283,560

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	pre-construction surveys		1	ls	10000.00	\$10,000
105	Site construction fence/barricades		5000	lf	10.00	\$50,000
110	Construction gates/entrance		2	ea	2500.00	\$5,000
115	Erosion control; silt fence		2060	lf	7.00	\$14,420
120	Erosion control; basin protection		10	ea	750.00	\$7,500
125	Erosion control; Storm Management		4	ea	15000.00	\$60,000
125	Dust control/sweeper & water truck		20	days	850.00	\$17,000
130	Dust control/sweeper & water truck remainder of		100	days	850.00	\$85,000
135	Clear & grub site	y	180930	sf	0.15	\$27,140
140	Tree Protection		10	ea	750.00	\$7,500
145						\$0

G1020 Site Demolition and Relocations 352375 sf 1.77 \$624,441

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Demo Existing Building - 1 story		44874	SF	7.50	\$336,555
105	Demo Existing Building - below ground		5656	SF	6.00	\$33,936
110	Demo Existing temp classrooms - 1 story		7872	SF	3.00	\$23,616
115	Cut and cap existing utilities		1	ls	10000.00	\$10,000
120	Demo Pavement & Walks		154470	sf	0.75	\$115,853
125	Demo Utility Structures		17	ea	750.00	\$12,750
130	Demo Utilities		1246	lf	25.00	\$31,150
135	Demo Fencing		515	lf	15.00	\$7,725
140	Misc. Site demo	y	352375	sf	0.15	\$52,856
145						\$0

G1030 Site Earthwork \$613,741

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Strip & Stockpile loam		3351	cy	6.00	\$20,106
105	Site Cuts- Load to Export		1183	cy	12.00	\$14,196
110	Site cuts to fill, place/compact		5829	cy	21.00	\$122,409
115	Truck and dispose of surplus material		1893	ton	10.00	\$18,928
120	Remove fill at building footprint		0	cy	35.00 w/ A1010	
125	Spread Topsoil (from strip/building cut) includes screening and adding amendments		3240	cy	17.50	\$56,700

G10 Preparation

130 Dewatering	12 wks	5000.00	\$60,000
135 Add for phasing/mobilizations	1 ea	100000.00	\$100,000
140			\$0
100 Site Prep/Erosion Control & Demo	1 ls	20000.00	\$20,000
105 Site Clearing & Grubbing at Field	196500 sf	0.10	\$19,650
110 Cuts to Fills at Fields (reuse 7,800CY from building site)	9146 cy	12.00	\$109,752
145 Hual off excess (trucking costs)	0 cy	6.00	\$0
150 Retaining wall at property line 400 LF x 6'H	2400 sf	30.00	\$72,000

G1040 Hazaerdous Waste Remediation 1 LS 445000.00 \$445,000

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Total cost of managing arsenic soils ranges from \$115,000 to \$415,000.	y	1	LS	415000.00	\$415,000
105	Total cost of mitigating a potential UST release ranges between \$15,000 and \$30,000.		1	LS	30000.00	\$30,000
110						\$0
115						\$0

G20 Improvement

G2010 Roadways 19879 sf 3.13 \$62,199

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Fire Road Gravel Base		736	cy	30.00	\$22,080
105	Fire Road Stonedust		368	cy	55.00	\$20,240
110	Prep/Fine Grade	y	19879	sf	1.00	\$19,879
115						\$0

G2020 Parking Lots 98437 sf 6.43 \$632,815

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Bit. Pavement		10937	sy	22.00	\$240,624
105	Prep/Fine Grade	y	98437	sf	1.00	\$98,437
110	gravel base 12"		3646	cy	38.00	\$138,541
110	VGC		3344	lf	42.00	\$140,448
115	Pavement Markings		98437	sf	0.15	\$14,766
120						\$0

G2030 Pedestrian Paving 44382 sf 22.11 \$981,367

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Concrete paving/ sidewalks		27252	sf	10.00	\$272,520
105	Bituminous Sidewalks		997	sy	35.00	\$34,907
110	gravel base		895	cy	45.00	\$40,253
115	Prep/Fine Grade	y	44382	sf	0.75	\$33,287
120	FPF Exterior Stairs and buttress walls-West		1	ls	25000.00	\$25,000
125	Railings at Stairs and Ramps-West		70	lf	250.00	\$17,500
130	FPF Exterior Stairs and ramp-North		1	ls	75000.00	\$75,000
135	Railings at Stairs and Ramps-North		200	lf	250.00	\$50,000
140	Loading dock		1000	SF	17.50	\$17,500
145	Concrete Walks					
150	Concrete walk 200' fire access drive to edge of track		1200	sf	12.50	\$15,000
155	12" Gravel Base at concrete walks at track		44	cy	45.00	\$2,000
160	Fine Grade & Prep		1200	sf	0.75	\$900
165						
170	Track Surfacing					
175	Fine grade & Prep at Track		30100	sf	1.25	\$37,625
180	Gravel Base 12" at track		1115	cy	42.00	\$46,822

G20 Improvement

185	Base Course at track	293 ton	130.00	\$38,043
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G20 Improvement

190	Wearing Course at track	364 ton	140.00	\$50,974
195	Synthetic Running Track Surfacing	30100 sf	5.00	\$150,500
200	Misc. Events			
205	Fine grade & Prep at Misc. Events	5175 sf	1.00	\$5,175
210	Gravel Base 12" at Misc. Events	192 cy	42.00	\$8,050
215	Base Course at Misc. Events	50 ton	140.00	\$7,044
220	Wearing Course at Misc. Events	50 ton	150.00	\$7,547
225	Synthetic Running Track Surfacing at Misc. Events	5175 sf	5.00	\$25,875
230	Track Markings	35275 sf	0.35	\$12,346
235	Flood Test at track	1 ls	7500.00	\$7,500

G2040	Site Development	1 ls	2088664	\$2,088,664
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Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	FPF Amphitheater Benches		355	lf	150.00	\$53,250
105	FPF Field Stone Seat Walls		928	lf	150.00	\$139,200
110	Excavation & Backfill at wall		950	cy	35.00	\$33,263
115	Stone Veneer		5568	sf	40.00	\$222,720
120	Add for concrete site walls 70LF		45	cy	650.00	\$29,250
125	Sub Slab at Pavers		8154	sf	10.00	\$81,540
130	Sub Slab at Rubber Surfacing		12822	sf	10.00	\$128,220
135	gravel base		518	cy	40.00	\$20,717
140	Prep/Fine Grade		20976	sf	0.75	\$15,732
145	Unit Pavers		11083	sf	23.00	\$254,909
150	Reduction for changing some pavers to concrete		1	ls	-50000.00	-\$50,000
155	Poured in Place Rubber Surfacing (PIP)		12610	sf	25.00	\$315,250
160	PIP transition edge		605	lf	30.00	\$18,150
165	CLF and gate at perimeter of play area		605	lf	50.00	\$30,250
170	Bollards and Footing		19	ea	1250.00	\$23,750
175	Flag Pole		1	ea	10000.00	\$10,000
180	Site Furnishings-benches, planters, trash etc		1	ls	50000.00	\$50,000
185	Site Signage	y	1	ls	7500.00	\$7,500
190	Raised CIP planters 18"H		1400	lf	100.00	\$140,000
195	Transformer and generator pad		450	sf	10.00	\$4,500
200	Transformer and generator fence and gate		90	lf	65.00	\$5,850
205	Playground equipment		1	Allow	375000.00	\$375,000
210						
215	Athletic Furnishings					
220	Two - 20' high ball netting systems		7200	sf	5.75	\$41,400
225	Posts & Footings		360	lf	75.00	\$27,000
230	Long Jump Pits		2	ea	10000.00	\$20,000
235	Pole Vault		1	ea	7500.00	\$7,500
240	Football Goal Posts		0	ea	15000.00	\$0
245	Discus Pad		1	ea	5000.00	\$5,000
250	Shot Put Pad		1	ea	7500.00	\$7,500

G20 Improvement

255	Signage Allowance	1 ls	5000.00	\$5,000
260	Storage Shed			
265	Prefab Storage shed Structure	400 sf	90.00	\$36,000
270	E&B for Prefab Shed Foundations	650 cy	15.00	\$9,750
275	Gravel Base at shed	15 cy	65.00	\$963
280	Footings & Foundations at shed	400 sf	30.00	\$12,000
285	Electrical Requirements at shed	1 ls	7500.00	\$7,500

G2050	Landscaping	1 ls	1149229.00	\$1,149,229
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Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Loam & Seeding		175,000	sf	0.50	\$87,500
105	Import 6" loam to bring to 12" total depth		3,240	CY	40.00	\$129,600
110	Planting Soils		750	cy	75.00	\$56,250
115	Embedded Boulders		Use on-site boulders			\$0
120	Landscape, Planting & rain garden Allowance	y	1	ls	318150	\$318,150
125	Basketball Hoops		2	ea	8000.00	\$16,000
130	Hose bibbs for landscape		2	ea	2500.00	\$5,000
135	Irrigation for lawns and planting		1	ls	145000.00	\$145,000
140	Track add					
145	8" high use lawn soils at interior of track		2409	cy	60.00	\$144,519
150	Sod Interior of track		97550	sf	1.25	\$121,938
155	Loam at Surrounding Areas (existing screened loam)		1275	cy	25.00	\$31,875
160	Seed Surrounding Areas of track		63675	sf	0.20	\$12,735
165	Landscaping at surrounding areas of track		1	ls	0.00	\$0
170	Spray and drip irrigation system at Field		97550	sf	0.75	\$73,163
175	Control system - weather response-at field		1	ls	7500.00	\$7,500
180	Irrigation at surrounding areas		0	ea	0.50	\$0

G30 Mech Utilities

G3010 Water Supply 1 ls 209750.00 \$209,750

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Water/Fire Service		1950	lf	85.00	\$165,750
105	Hydrant Assembly		4	ea	3500.00	\$14,000
110	CTE		4	ea	5000.00	\$20,000
115	T's / Gate Valves, Misc.	y	1	ls	10000.00	\$10,000
120						\$0

G3020 Sanitary Sewer 1366 lf 109.77 \$149,950

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Sewer Pipe w/ E&B	y	1366	lf	75.00	\$102,450
105	SMH		5	ea	5000.00	\$25,000
110	SMH Doghouse		1	ea	10000.00	\$10,000
115	CTE SMH		2	ea	2500.00	\$5,000
120	Grease Trap		1	ea	7500.00	\$7,500

G3030 Storm Sewer 6493 lf 183.63 \$1,192,290

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	12" PVC	y	1918	lf	65.00	\$124,670
105	18" PVC	y	435	lf	75.00	\$32,625
110	18" HDPE	y	55	lf	85.00	\$4,675
115	Field Under Drainage System	y	2655	lf	40.00	\$106,200
120	Storm Infiltration unit including E&B & Stone		12604	sf	30.00	\$378,120
125	Add for 5' deep chambers		12000	sf	15.00	\$180,000
130	WQS		2	ea	10000.00	\$20,000
135	DMH		18	ea	3500.00	\$63,000
140	CB		16	ea	3500.00	\$56,000
145	OCS		1	ea	5000.00	\$5,000
150	AD		2	ea	2500.00	\$5,000
155	Foundation Drain		See A1010	LF	35.00	\$0
160	CTE		2	ea	2000.00	\$4,000
165	Track					
170	Perimeter Drain at interior of field	y	1430	lf	100.00	\$143,000
175	Subsurface Drainage System below Field		1	ls	70000.00	\$70,000
180	Misc. Structures & Pipe surrounding field		0	ls	50000.00	\$0
165						\$0

G30 Mech Utilities

G30 Mech Utilities

G3040 Heating Distribution \$0

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100						\$0
105						\$0
110						\$0

G3050 Cooling Distribution \$0

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100						\$0
105						\$0

G3060 Fuel Distribution \$21,010

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Gas Service E&B Only		382	lf	55.00	\$21,010
105						\$0

OPM COST ESTIMATE

G40 Elec Utilities

G4010 Electrical Distribution 1 LS 270900.00 \$270,900

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	(2) 5" primary conduits		125	LF	59.00	\$7,375
105	Excavation & backfill		125	LF	55.00	\$6,875
110	Concrete encasement		14	CY	225.00	\$3,125
115	Secondary service (2500A)		230	LF	800.00	\$184,000
120	Excavation & backfill		125	LF	55.00	\$6,875
125	300A Feeder (PVC) Generator power feeders in ductbank		175	LF	150.00	\$26,250
130	Excavation & backfill		175	LF	55.00	\$9,625
135	Concrete encasement		19	CY	225.00	\$4,375
140	Transformer grounding	y	1	LS	3,000.00	\$3,000
145	Manhole		1	EA	5,000.00	\$5,000
150	Electric vehicle charging station		2	EA	7200.00	\$14,400

G4020 Site Lighting 1 LS 127820.00 \$127,820

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Site Lighting Allowance	y	1	LS	110000.00	\$110,000
105	Building mounted exterior wall packs at entries (wired)		18	EA	990.00	\$17,820
110	Field Lighting Allowance			NIC		\$0

G4030 Site Communications & Security 321 lf 144.98 \$46,537

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Tel/Data E&B	y	321	lf	55.00	\$17,655
105	(3) 4" entrance conduits		321	LF	74.40	\$23,882
110	Manhole		1	EA	5,000.00	\$5,000

Alternates and UP's

Alternates and Unit Prices				
	Quantity	UoM	UP	Total
Alt #1				
Provide 8" metal studs in lieu of 10" metal studs at exterior walls. This will incur additional finishing at column locations, additional GWB corners, taping, base treatment, casework/countertop cut-outs, etc.				
Deduct to reduce from 10" to 8" LGMF	44941	SF	-\$2.00	-\$89,882
Add to frame and GWB at column bump outs	96	EA	\$200.00	\$19,200
Add to cut base around columns	96	EA	\$35.00	\$3,360
Sub Total				-\$67,322
Mark ups	34.51%			-\$23,234
Total Savings				-\$90,556
Alt #2				
Provide epoxy floor and wall base at all bathrooms in lieu of 2x2 ceramic floor and wall base tile.				
Deduct ceramic tile floor	-3833	SF	17.50	-\$67,078
Deduct ceramic tile wall base	-1515	LF	18.00	-\$27,270
Add epoxy floor	3833	SF	\$12.50	\$47,913
Add epoxy wall base	1515	LF	\$15.00	\$22,725
Sub Total				-\$23,710
Mark ups	34.51%			-\$8,183
Total Savings				-\$31,893
Alt #3				
Provide triple glazed, thermally broken aluminum windows in lieu of double glazed thermally broken aluminum windows				
Added cost for triple glazed units				\$370,000
Mark ups	34.51%			\$127,693
Total Additional Cost				\$497,693
Alt #4				
Provide double glazed polymer windows in lieu of double glazed thermally broken aluminum windows			Not recommended by Vendor	No Quote
Alt #5				
Provide triple glazed polymer windows in lieu of double glazed thermally broken aluminum windows			Not recommended by Vendor	No Quote
UP #1				
Provide UP for one 4'x7' tall double glazed thermally broken aluminum window (base design)				\$4,900
UP #2				
Provide UP for one 4'x7' tall triple glazed thermally broken aluminum window				\$6,100
UP #3				
Provide UP for one 4'x7' tall double glazed polymer window			Not recommended by Vendor	No Quote
UP #4				
Provide UP for one 4'x7' tall triple glazed polymer window			Not recommended by Vendor	No Quote

**Florence Roche Elementary School
Groton, MA
Track and Field Work**

12/8/2020



G1010 Site Clearing \$221,402

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	Site Prep/Erosion Control & Demo		1	ls	20000.00	\$20,000
105	Site Clearing & Grubbing at Field		196500	sf	0.10	\$19,650
110	Cuts to Fills at Fields (reuse 7,800CY from building site)		9146	cy	12.00	\$109,752
115	Haul off excess (trucking costs)		0	cy	6.00	\$0
120	Retaining wall at property line 400 LF x 6'H		2400	sf	30.00	\$72,000

G2030 Pedestrian Paving \$415,401

Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
Concrete Walks						
100	Concrete walk 200' fire access drive to edge of track		1200	sf	12.50	\$15,000
105	12" Gravel Base		44	cy	45.00	\$2,000
110	Fine Grade & Prep		1200	sf	0.75	\$900
115						
Track Surfacing						
120	Track Surfacing					
125	Fine grade & Prep at Track		30100	sf	1.25	\$37,625
130	Gravel Base 12"		1115	cy	42.00	\$46,822
135	Base Course		293	ton	130.00	\$38,043
140	Wearing Course		364	ton	140.00	\$50,974
145	Synthetic Surfacing		30100	sf	5.00	\$150,500
Misc. Events						
150	Misc. Events					
155	Fine grade & Prep		5175	sf	1.00	\$5,175
160	Gravel Base 12"		192	cy	42.00	\$8,050
165	Base Course		50	ton	140.00	\$7,044

Track and Field

170	Wearing Course		50 ton		150.00	\$7,547
175	Synthetic Surfacing		5175 sf		5.00	\$25,875
180	Track Markings		35275 sf		0.35	\$12,346
185	Flood Test		1 ls		7500.00	\$7,500
190						
G2040 Site Development						\$179,613
Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
Athletic Furnishings						
100	Two - 20' high ball netting systems		7200 sf		5.75	\$41,400
105	Posts & Footings		360 lf		75.00	\$27,000
110	Long Jump Pits		2 ea		10000.00	\$20,000
115	Pole Vault		1 ea		7500.00	\$7,500
120	Football Goal Posts		0 ea		15000.00	\$0
125	Discus Pad		1 ea		5000.00	\$5,000
130	Shot Put Pad		1 ea		7500.00	\$7,500
135	Signage Allowance		1 ls		5000.00	\$5,000
140	Storage Shed					
145	Prefab Structure		400 sf		90.00	\$36,000
150	E&B for Prefab Shed Foundations		650 cy		15.00	\$9,750
155	Gravel Base		15 cy		65.00	\$963
160	Footings & Foundations at shed		400 sf		30.00	\$12,000
165	Electrical Requirements		1 ls		7500.00	\$7,500
170						
G2050 Landscaping						\$391,729
Ref	Item Description	Par. Qty?	Quantity	UoM	Rate	Sum
100	8" high use lawn soils at interior of track		2409 cy		60.00	\$144,519
105	Sod Interior of track		97550 sf		1.25	\$121,938
110	Loam at Surrounding Areas (existing screened loam)		1275 cy		25.00	\$31,875
115	Seed Surrounding Areas		63675 sf		0.20	\$12,735
120	Landscaping at surrounding areas		1 ls		0.00	\$0
125	Spray and drip irrigation system at Field		97550 sf		0.75	\$73,163
130	Control system - weather response		1 ls		7500.00	\$7,500
135	Irrigation at surrounding areas		0 sf		0.75	\$0
140						

Track and Field

G3030 Storm Sewer		5063 If	193.42	\$213,000
Ref	Item Description	Par. Qty?	Quantity UoM	Rate Sum
100	Perimeter Drain at interior of field	y	1430 If	100.00 \$143,000
105	Subsurface Drainage System below Field		1 Is	70000.00 \$70,000
110	Misc. Structures & Pipe surrounding field		0 Is	50000.00 \$0
115				\$0
120				
125				
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G4020 Site Lighting		1 LS	127820.00	\$0
Ref	Item Description	Par. Qty?	Quantity UoM	Rate Sum
100	Field Lighting Allowance		NIC	\$0
105				
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Total not including Mark ups				\$ 1,421,144