



100% Schematic Design Estimate

**Bristol-Plymouth Regional
Technical High School**

Taunton, MA

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Prepared for:

HMFH ARCHITECTS

August 24, 2021



Bristol-Plymouth Regional Technical High School

Taunton, MA

24-Aug-21

100% Schematic Design Estimate

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
	Apr-23			
NEW BUILDING		419,765	\$363.46	\$152,567,448
RENOVATE EXISTING BUILDINGS (Preschool)				By Others
DEMOLISH EXISTING BUILDINGS (1 story)		192,685	\$7.50	\$1,445,138
SITework				\$22,974,031
ATHLETIC BUILDINGS; PRESS BOX, CONCESSIONS & TEAM ROOMS				\$2,318,680
REMOVE HAZARDOUS MATERIALS (UEC Report April 2020) ¹				\$2,730,500
SUB-TOTAL		419,765	\$433.66	\$182,035,797
ESCALATION	6.00%			\$10,922,148
DESIGN AND PRICING CONTINGENCY	10%			\$18,203,580
SUB-TOTAL		419,765	\$503.05	\$211,161,525
GENERAL CONDITIONS	36	MTHS	\$290,000	\$10,440,000
GENERAL REQUIREMENTS	2.50%			\$5,279,038
BONDS	1.25%			\$2,639,519
INSURANCE	1.40%			\$2,956,261
PERMIT	Included			\$2,533,938
OVERHEAD AND PROFIT	2.50%			\$5,875,257
MODULARS				NR
TOTAL OF ALL CONSTRUCTION		419,765	\$573.86	\$240,885,538

¹ Testing and design services are not included in the HazMat removal costs



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This 100% Schematic design cost estimate was produced from drawings, narratives, outline specifications and other documentation prepared by HMFH Architects and their design team received July 1st, 2021 and an updated electrical site utility plan received from GGD Engineers July 21, 2021. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

This estimate includes all direct construction costs, general contractor's overhead and profit and design contingency. Cost escalation assumes start dates indicated.

Bidding conditions are expected to be public bidding under Chapter 149 of the Massachusetts General Laws to pre-qualified general contractors, and pre-qualified sub-contractors, open specifications for materials and manufacturers. If a CMr procurement is selected costs will likely be higher.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

ITEMS NOT CONSIDERED IN THIS ESTIMATE

Items not included in this estimate are:

- Land acquisition, feasibility, and financing costs
- All professional fees and insurance
- Site or existing conditions surveys investigations costs, including to determine subsoil conditions
- All Furnishings, Fixtures and Equipment (except as noted in this estimate)
- Items identified in the design as Not In Contract (NIC)
- Items identified in the design as by others
- Owner supplied and/or installed items as indicated in the estimate
- Utility company back charges, including work required off-site
- Work to City streets and sidewalks, (except as noted in this estimate)
- Construction contingency
- Contaminated soils removal



CONSTRUCTION COST SUMMARY

<i>BUILDING SYSTEM</i>	<i>SUB-TOTAL</i>	<i>TOTAL</i>	<i>\$/SF</i>	<i>%</i>
BUILDING SUMMARY				
A10 FOUNDATIONS				
A1010 Standard Foundations	\$3,723,327			
A1020 Special Foundations	\$3,422,818			
A1030 Lowest Floor Construction	\$4,006,210	\$11,152,355	\$26.57	7.3%
A20 BASEMENT CONSTRUCTION				
A2010 Basement Excavation	\$0			
A2020 Basement Walls	\$0	\$0	\$0.00	0.0%
B10 SUPERSTRUCTURE				
B1010 Upper Floor Construction	\$8,046,967			
B1020 Roof Construction	\$11,451,116	\$19,498,083	\$46.45	12.8%
B20 EXTERIOR CLOSURE				
B2010 Exterior Walls	\$13,578,834			
B2020 Windows	\$7,347,659			
B2030 Exterior Doors	\$628,320	\$21,554,813	\$51.35	14.1%
B30 ROOFING				
B3010 Roof Coverings	\$6,131,082			
B3020 Roof Openings	\$523,807	\$6,654,889	\$15.85	4.4%
C10 INTERIOR CONSTRUCTION				
C1010 Partitions	\$11,966,668			
C1020 Interior Doors	\$1,613,045			
C1030 Specialties/Millwork	\$3,894,475	\$17,474,188	\$41.63	11.5%
C20 STAIRCASES				
C2010 Stair Construction	\$645,000			
C2020 Stair Finishes	\$124,040	\$769,040	\$1.83	0.5%
C30 INTERIOR FINISHES				
C3010 Wall Finishes	\$4,417,382			
C3020 Floor Finishes	\$3,651,840			
C3030 Ceiling Finishes	\$3,902,761	\$11,971,983	\$28.52	7.8%
D10 CONVEYING SYSTEMS				
D1010 Elevator	\$683,575	\$683,575	\$1.63	0.4%
D20 PLUMBING				
D20 Plumbing	\$8,088,292	\$8,088,292	\$19.27	5.3%
D30 HVAC				
D30 HVAC	\$27,634,548	\$27,634,548	\$65.83	18.1%



CONSTRUCTION COST SUMMARY

<i>BUILDING SYSTEM</i>	<i>SUB-TOTAL</i>	<i>TOTAL</i>	<i>\$/SF</i>	<i>%</i>
BUILDING SUMMARY				
D40 FIRE PROTECTION				
D40 Fire Protection	\$2,595,553	\$2,595,553	\$6.18	1.7%
D50 ELECTRICAL				
D5010 Complete System	\$17,391,754	\$17,391,754	\$41.43	11.4%
E10 EQUIPMENT				
E10 Equipment	\$4,537,760	\$4,537,760	\$10.81	3.0%
E20 FURNISHINGS				
E2010 Fixed Furnishings	\$2,560,615			
E2020 Movable Furnishings	NIC	\$2,560,615	\$6.10	1.7%
F10 SPECIAL CONSTRUCTION				
F10 Special Construction	\$0	\$0	\$0.00	0.0%
F20 HAZMAT REMOVALS				
F2010 Building Elements Demolition	\$0			
F2020 Hazardous Components Abatement	\$0	\$0	\$0.00	0.0%
TOTAL DIRECT COST (Trade Costs)		\$152,567,448	\$363.46	100.0%



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CONSTRUCTION COST SUMMARY IN CSI FORMAT								
	BUILDING				SITE BUILDINGS		TOTAL PROJECT	
	Subtotal	Total			Subtotal	Total	Subtotal	Total
DIV. 2 EXISTING CONDITIONS		\$4,175,638		\$0		\$0		\$4,175,638
024300 Building Demolition	\$1,445,138		\$0		\$0		\$1,445,138	
025000 Site Remediation	\$0		\$0		\$0		\$0	
028000 Building Abatement	\$2,730,500		\$0		\$0		\$2,730,500	
DIV. 3 CONCRETE		\$8,468,320		\$63,750		\$247,567		\$8,779,637
033000 Cast In Place Concrete	\$8,468,320		\$63,750		\$247,567		\$8,779,637	
DIV. 4 MASONRY		\$4,643,720		\$0		\$595,336		\$5,239,056
040001 Unit Masonry	\$4,643,720		\$0		\$595,336		\$5,239,056	
DIV. 5 METALS		\$18,141,348		\$31,875		\$273,299		\$18,446,522
050001 Miscellaneous & Ornamental Iron	\$1,594,738		\$31,875		\$69,064		\$1,695,677	
051200 Structural Steel Framing	\$16,546,610		\$0		\$204,235		\$16,750,845	
DIV. 6 WOODS, PLASTICS & COMPOSITES		\$2,917,818		\$101,500		\$17,087		\$3,036,405
061000 Rough Carpentry	\$931,468		\$0		\$17,087		\$948,555	
062000 Finish Carpentry	\$1,986,350		\$101,500		\$0		\$2,087,850	
DIV. 7 THERMAL & MOISTURE PROTECTION		\$14,922,921		\$0		\$263,846		\$15,186,767
070001 Waterproofing, Damproofing & Caulking	\$2,199,574		\$0		\$79,956		\$2,279,530	
070002 Roofing and Flashing	\$5,642,392		\$0		\$152,146		\$5,794,538	
072100 Insulation	\$891,024		\$0		\$31,744		\$922,768	
076400 Composite Metal Panels	\$4,431,455		\$0		\$0		\$4,431,455	
078100 Applied Fireproofing	\$1,113,224		\$0		\$0		\$1,113,224	
078400 Firestopping	\$445,252		\$0		\$0		\$445,252	
079513 Construction & Expansion Joints	\$200,000		\$0		\$0		\$200,000	
DIV. 8 DOORS & WINDOWS		\$12,730,982		\$0		\$139,000		\$12,869,982
080001 Aluminum Windows	\$7,759,885		\$0		\$21,600		\$7,781,485	
080002 Glass and Glazing	\$2,177,340		\$0		\$0		\$2,177,340	
081110 Doors and Frames	\$1,242,900		\$0		\$40,500		\$1,283,400	
083100 Access Doors and Panels	\$25,000		\$0		\$0		\$25,000	
083323 Overhead Coiling Doors	\$268,300		\$0		\$54,400		\$322,700	
084313 Aluminum Framed Storefronts	\$0		\$0		\$0		\$0	
084413 Glazed Aluminum Curtainwall	\$0		\$0		\$0		\$0	
085113 Aluminum Windows	\$0		\$0		\$0		\$0	
086300 Metal Framed Skylights	\$523,807		\$0		\$22,500		\$546,307	
083513 Folding Glass Doors	\$707,500		\$0		\$0		\$707,500	
087100 Door Hardware	\$10,000		\$0		\$0		\$10,000	
089000 Louvers and Vents	\$16,250		\$0		\$0		\$16,250	
DIV. 9 FINISHES		\$20,535,084		\$0		\$85,807		\$20,620,891
090002 Tile	\$2,420,110		\$0		\$0		\$2,420,110	
090003 Acoustical Ceilings	\$2,948,442		\$0		\$0		\$2,948,442	
090004 Terrazzo	\$902,000		\$0		\$0		\$902,000	
090005 Resilient Flooring	\$1,423,410		\$0		\$6,156		\$1,429,566	
090007 Painting	\$1,113,472		\$0		\$40,261		\$1,153,733	
092900 GWB, Lath and Plastering	\$10,870,130		\$0		\$39,390		\$10,909,520	
096400 Wood Flooring	\$24,480		\$0		\$0		\$24,480	
096466 Wood Athletic Flooring	\$287,040		\$0		\$0		\$287,040	
096800 Carpet	\$51,000		\$0		\$0		\$51,000	
097500 Fluid Applied Flooring	\$0		\$0		\$0		\$0	
098414 Acoustic Panels	\$495,000		\$0		\$0		\$495,000	
DIV. 10 SPECIALTIES		\$1,829,096		\$0		\$100,290		\$1,930,286
101100 Markerboards	\$322,000		\$0		\$0		\$322,000	
101200 Display Cases	\$60,000		\$0		\$0		\$60,000	
101400 Signage	\$559,883		\$0		\$20,000		\$579,883	
102110 Wire Partitions	\$63,000		\$0		\$0		\$63,000	
102113 Toilet Compartments	\$89,600		\$0		\$32,600		\$122,200	
102228 Folding Partitions	\$0		\$0		\$0		\$0	
102600 Wall Protection	\$17,280		\$0		\$0		\$17,280	
102813 Toilet Accessories	\$179,500		\$0		\$25,000		\$204,500	
104400 Fire Protection Specialties	\$66,703		\$0		\$2,000		\$68,703	
105113 Metal Lockers	\$472,030		\$0		\$20,690		\$492,720	
DIV. 11 EQUIPMENT		\$4,015,760		\$150,000		\$1,000		\$4,166,760
111300 Loading Dock Equipment	\$28,500		\$0		\$0		\$28,500	
113100 Appliances	\$50,000		\$0		\$1,000		\$51,000	
114000 Foodservice Equipment	\$1,570,000		\$0		\$0		\$1,570,000	
115213 Projection Screens	\$30,000		\$0		\$0		\$30,000	
115300 Laboratory Equipment	\$32,500		\$0		\$0		\$32,500	
115313 Laboratory Fume Hoods	\$196,000		\$0		\$0		\$196,000	
115700 Vocational Shop Equipment	\$1,700,000		\$0		\$0		\$1,700,000	
116100 Theatre Equipment	\$125,000		\$0		\$0		\$125,000	
116623 Gymnasium Equipment	\$188,760		\$0		\$0		\$188,760	
116653 Gymnasium Dividers	\$40,000		\$0		\$0		\$40,000	
116800 Play Field Equipment & Structures	\$0		\$150,000		\$0		\$150,000	
119000 Miscellaneous Equipment	\$55,000		\$0		\$0		\$55,000	
DIV. 12 FURNISHINGS		\$3,082,615		\$1,629,000		\$21,650		\$4,733,265
122400 Window Shades	\$350,000		\$0		\$0		\$350,000	
123000 Casework	\$2,150,365		\$0		\$21,650		\$2,172,015	
124813 Entrance Floor Mats and Frames	\$60,250		\$0		\$0		\$60,250	
126100 Fixed Audience Seating	\$234,000		\$0		\$0		\$234,000	
126613 Telescoping Bleachers	\$288,000		\$0		\$0		\$288,000	
129300 Site Furnishings	\$0		\$1,629,000		\$0		\$1,629,000	



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CONSTRUCTION COST SUMMARY IN CSI FORMAT

	BUILDING		SITEWORK		SITE BUILDINGS		TOTAL PROJECT	
	Subtotal	Total	Subtotal	Total	Subtotal	Total	Subtotal	Total
DIV. 13 SPECIAL CONSTRUCTION		\$35,000		\$0		\$0		\$35,000
13500 Lead Lining	\$35,000		\$0		\$0		\$35,000	
DIV. 14 CONVEYING SYSTEMS		\$680,000		\$0		\$0		\$680,000
142424 Elevators	\$680,000		\$0		\$0		\$680,000	
DIV. 21 FIRE SUPPRESSION		\$2,595,553		\$0		\$0		\$2,595,553
210000 Fire Suppression	\$2,595,553		\$0		\$0		\$2,595,553	
DIV. 22 PLUMBING		\$8,088,292		\$0		\$134,200		\$8,222,492
220000 Plumbing	\$8,088,292		\$0		\$134,200		\$8,222,492	
DIV. 23 HVAC		\$27,634,548		\$0		\$67,100		\$27,701,648
230000 HVAC	\$27,634,548		\$0		\$67,100		\$27,701,648	
DIV. 26 ELECTRICAL		\$17,391,754		\$2,210,145		\$234,850		\$19,836,749
260000 Electrical Work	\$17,391,754		\$2,210,145		\$234,850		\$19,836,749	
DIV. 31 EARTHWORK		\$4,853,737		\$5,839,109		\$135,998		\$10,828,844
310000 Earthwork	\$1,430,919		\$4,288,472		\$50,262		\$5,769,653	
311000 Site Preparation & Clearing	\$0		\$1,374,087		\$0		\$1,374,087	
312500 Erosion Control	\$0		\$176,550		\$0		\$176,550	
312900 Ground Improvements	\$3,422,818		\$0		\$85,736		\$3,508,554	
DIV. 32 EXTERIOR IMPROVEMENTS		\$0		\$8,521,692		\$1,650		\$8,523,342
320000 Bituminous Paving, Curbing & Edging	\$0		\$2,964,033		\$0		\$2,964,033	
321313 Site Concrete	\$0		\$137,000		\$0		\$137,000	
321314 Exposed Aggregate Concrete Paving	\$0		\$1,280,220		\$0		\$1,280,220	
321724 Signs	\$0		\$75,000		\$0		\$75,000	
321816 Playground Protective Surfaces	\$0		\$342,439		\$0		\$342,439	
322110 Synthetic Turf Fields	\$0		\$905,936		\$0		\$905,936	
323114 Fencing	\$0		\$768,700		\$1,650		\$770,350	
323300 Segmental Retaining Wall	\$0		\$43,750		\$0		\$43,750	
329800 Irrigation	\$0		\$772,421		\$0		\$772,421	
329900 Landscaping	\$0		\$1,232,193		\$0		\$1,232,193	
DIV. 33 UTILITIES		\$0		\$4,426,960		\$0		\$4,426,960
331000 Water Distribution	\$0		\$961,325		\$0		\$961,325	
333000 Sanitary Sewerage	\$0		\$342,575		\$0		\$342,575	
334000 Storm Drainage Systems	\$0		\$3,123,060		\$0		\$3,123,060	
336000 Traffic Mitigation	\$0		\$0		\$0		\$0	
SUBTOTAL DIRECT (TRADE) COST		\$156,743,086		\$22,974,031		\$2,318,680		\$182,035,797



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

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A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

033000 CONCRETE

Strip Footings	350	CY		
Foundation Walls	877	CY		
Spread Footings	1,431	CY		
Grade beams	438	CY		
Piers	67	CY		
Loading dock, elevator pits, misc.	204	CY		
Total Foundation Concrete	3,367	CY		

Strip footings; 2'-3" x 12"

033000	Formwork	8,000	sf	15.00	120,000		
033000	Re-bar; 10lbs/lf	40,000	lbs.	2.00	80,000		
033000	Concrete material, 3000psi	350	cy	140.00	49,000		
033000	Placing concrete	350	cy	120.00	42,000		
033000	<u>Foundation walls, avg 17" thick</u>						
033000	Formwork	32,000	sf	19.00	608,000		
033000	Re-bar; 4.5lbs/sf	72,000	lbs.	2.00	144,000		
033000	Concrete material, 3000psi	877	cy	140.00	122,780		
033000	Placing concrete	877	cy	120.00	105,240		
033000	Form shelf	4,000	lf	10.00	40,000		
033000	<u>Spread Footings; per structural drawings</u>						
033000	Formwork	21,545	sf	18.00	387,810		
033000	Re-bar; 400lbs/loc	88,546	lbs.	2.00	177,092		
033000	Concrete material, 3000psi	1,431	cy	140.00	200,340		
033000	Placing concrete	1,431	cy	120.00	171,720		
033000	Set anchor bolts grout plates	399	ea	150.00	59,850		
033000	<u>Grade beams at braced frames, 2' x 2'-6"</u>						
033000	Formwork	9,000	sf	15.00	135,000		
033000	Re-bar; 70lbs/lf	157,500	lbs.	2.00	315,000		
033000	Concrete material, 4000psi	438	cy	148.00	64,824		
033000	Placing concrete	438	cy	120.00	52,560		
033000	<u>Piers/Pilasters</u>						
033000	Formwork	2,608	sf	15.00	39,120		
033000	Re-bar; 55lbs/lf	13,860	lbs	2.00	27,720		
033000	Concrete material, 4000psi	67	cy	148.00	9,916		
033000	Placing concrete	67	cy	120.00	8,040		

070001 WATERPROOFING, DAMPPROOFING AND CAULKING

070001	Trowel-on bituminous mastic at foundation wall	16,000	sf	3.00	48,000		
070001	Waterproofing at elevator pits	1,080	sf	16.00	17,280		
070001	Waterproofing at Vehicle pits and at down draft booths - allow	2,500	sf	16.00	40,000		

072100 THERMAL INSULATION

072100	Insulation at foundation wall	16,000	sf	3.00	48,000		
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312000 EARTHWORK

Strip footings

310000	Excavation	4,444	cy	16.00	71,104		
310000	Store onsite	4,444	cy	4.00	17,776		
310000	Backfill with existing material	3,217	cy	18.00	57,906		
310000	<u>Spread footings/Grade beams</u>						
310000	Excavation	4,889	cy	16.00	78,224		
310000	Store onsite	4,889	cy	4.00	19,556		
310000	Backfill with existing material	3,020	cy	18.00	54,360		
310000	<u>Disposal Costs</u>						
310000	Load exported materials	3,096	cy	2.50	7,740		
310000	<RCS-1; 1.65x	1,788	tn	18.00	32,184		
310000	Mass In-state unlined landfill; 1.65x	1,788	tn	50.00	89,400		
310000	Mass In-state lined landfill; 1.65x	766	tn	60.00	45,960		
310000	Mass Asphalt Batching Facility; 1.65x	511	tn	75.00	38,325		



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GFA

419,765

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
BUILDING BACKUP								
64 310000	Out-of-state non-hazardous	255	tn	120.00	30,600			
65 310000	<u>Miscellaneous</u>							
66 310000	Gravel fill beneath footings, 9"	810	cy	40.00	32,400			
67 310000	Perimeter drain, at Auditorium only	250	lf	18.00	4,500			
68 310000	Underslab drainage and waterproofing system				NR			
69 310000	Temporary dewatering for foundation work	1	ls	30,000.00	30,000			
70	SUBTOTAL					3,723,327		
71	A1020 SPECIAL FOUNDATIONS							
72								
73 312900	Ground improvements; Rammed Aggregate Piers	244,487	sf	14.00	3,422,818			
74	SUBTOTAL					3,422,818		
75	A1030 LOWEST FLOOR CONSTRUCTION							
76								
77	033000 CONCRETE							
78	<u>New Slab on grade, 6" thick</u>							
79 033000	Vapor barrier, heavy duty	244,487	sf	1.25	305,609			
80 033000	Rebar; #4 @ 12" oc e.w.	359,298	lbs	2.00	718,596			
81 033000	Concrete - 6" thick; 4,000 psi	4,754	cy	148.00	703,592			
82 033000	Premium for stepped slab in Auditorium	1,000	sf	25.00	25,000			
83 033000	Barrier One Admixture	4,754	cy	65.00	assume NR			
84 033000	Placing concrete	4,754	cy	65.00	309,010			
85 033000	Finishing and curing concrete	244,487	sf	3.00	733,461			
86 033000	Control joints - saw cut	244,487	sf	0.10	24,449			
87 033000	<u>Elevator Pits; 12" walls</u>	3	ea					
88 033000	Formwork	1,440	sf	24.00	34,560			
89 033000	Re-bar	3,600	lbs	2.00	7,200			
90 033000	Concrete material, 4000psi	28	cy	148.00	4,144			
91 033000	Placing concrete	28	cy	120.00	3,360			
92 033000	24" thick Mat slab	300	sf	30.00	9,000			
93 033000	Sump pit premium	3	ea	1,500.00	4,500			
94 033000	<u>Loading dock</u>							
95	<u>Footing</u>							
96 033000	Formwork	320	sf	24.00	7,680			
97 033000	Re-bar	1,600	lbs	2.00	3,200			
98 033000	Concrete material, 4000psi; perimeter walls	26	cy	148.00	3,848			
99 033000	Placing concrete	26	cy	120.00	3,120			
100	<u>Perimeter wall</u>							
101 033000	Formwork	2,240	sf	22.00	49,280			
102 033000	Re-bar	5,600	lbs	2.00	11,200			
103 033000	Concrete material, 4000psi; perimeter walls	44	cy	148.00	6,512			
104 033000	Placing concrete	44	cy	120.00	5,280			
105 033000	6" Slab, 5000psi, rebar	3,800	sf	12.00	45,600			
106 033000	Stair tread and risers, 12' wide x 5 rsr	45	lf	125.00	5,625			
107 033000	<u>Miscellaneous</u>							
108 033000	Premium for foundation details in Auditorium	30	cy	1,500.00	45,000			
109 033000	Premium for foundation details at Vehicle pits - allow	39	cy	1,500.00	58,500			
110 033000	Low concrete walls in shops - allow	15	cy	1,000.00	15,000			
111 033000	Equipment pads	1	ls	25,000.00	25,000			
112								
113	072100 THERMAL INSULATION							
114 72100	2" Rigid insulation at slab perimeter, 2'	8,000	sf	2.25	18,000			
115								
116	312000 EARTHWORK							
117	<u>Building Earthwork</u>							
118 310000	Cut	4,000	cy	8.00	32,000			
119 310000	Fill- from cut	5,900	cy	10.00	59,000			
120 310000	Fill- imported structural soil	5,900	cy	40.00	236,000			
121 310000	Gravel fill, 9"	6,791	cy	40.00	271,640			
122 310000	Compact existing sub-grade	244,487	sf	0.50	122,244			
123 310000	Underslab E&B for plumbing	1	ls	100,000.00	100,000			
124	SUBTOTAL					4,006,210		
125								
126	TOTAL - FOUNDATIONS						\$11,152,355	
127								



100% Schematic Design Estimate

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

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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

B10 SUPERSTRUCTURE

13.88 lbs/sf

B1010 FLOOR CONSTRUCTION

2,913 tns including roof screens & canopies

033000 CONCRETE

33000	WWF reinforcement	195,401	sf	1.50	293,102		
33000	Concrete Fill to metal deck; 4-1/2" normal weight, total thickness 6 1/2"	3,634	cy	150.00	545,100		
33000	Place and finish concrete	169,914	sf	3.50	594,699		
33000	Rebar to decks	50,974	lbs	1.50	76,461		

051200 STRUCTURAL STEEL FRAMING

51200	Steel framing including miscellaneous frames and connections, excluding loose lintels per Engineer	1,090	tns	4,500.00	4,905,000		
51200	Shear studs	42,479	ea	2.50	106,198		
51200	2" 18 Ga. metal galvanized floor deck	169,914	sf	4.25	722,135		
51200	Mezzanine floor framing in Elec Tech and Plumbing including safety rails (stairs carried elsewhere)	3,200	sf	45.00	144,000		
51200	Premium for stepped balcony at Auditorium - allow	3,000	sf	20.00	60,000		
51200	Misc. angles						included in steel tns
79513	Expansion joints	1	ls	100,000.00	100,000		

078100 FIREPROOFING/FIRESTOPPING

78100	Fire proofing to columns and beams	169,914	sf	2.50	424,785		
78400	Fire stopping floors	169,914	sf	0.15	25,487		
78100	Allowance for intumescent paint to columns in front of curtainwall	1	ls	50,000.00	50,000		
	SUBTOTAL					8,046,967	

B1020 ROOF CONSTRUCTION

033000 CONCRETE

33000	3 1/2" Normal weight concrete deck at mechanical equipment, 5 1/2" total thickness - allow	15,000	sf	10.00	150,000		
33000	3 1/2" Normal weight concrete deck, 5 1/2" total thickness at Outdoor terraces	5,340	sf	10.00	53,400		

051200 STRUCTURAL STEEL FRAMING

51200	Steel framing including miscellaneous frames and connections excluding canopies, roof screens and loose lintels per Engineer	1,720	tns	4,500.00	7,740,000		
51200	Premium for E.V.S.S. steel framing in Gymnasium and Shops (surface prepped and shop painted w/ primer)	500	tns	200.00	100,000		
51200	Framing at entry canopies; 20lbs/sf	52	tns	4,500.00	234,000		
51200	Roof screen support; 130lbs/lf	51	tns	5,000.00	deleted		
51200	Metal decking at canopies	5,220	sf	4.00	20,880		
51200	1 1/2" 18 Ga. galvanized metal roof deck, typical	230,813	sf	4.00	923,252		
51200	2" 18 Ga. galvanized metal roof deck at mechanical equipment and Green roof areas	20,340	sf	4.25	86,445		
51200	Premium for 3", 20 Ga. acoustic deck in Gym	13,500	sf	6.00	81,000		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
BUILDING BACKUP								
182	51200	Premium for 3", 20 Ga. acoustic deck in Shops & Labs	58,500	sf	6.00	351,000		
183	51200	Add rooftop penthouse	20,000	sf	40.00	800,000		
184	51200	Add stie canopy framing and deck; 505 lf x 10 lf	5,050	sf	54.00	272,700		
185								
186	078100	FIREPROOFING/FIRESTOPPING						
187	78100	Fire proofing to columns, beams and deck	173,813	sf	3.00	521,439		
188	78100	Premium allowance for intumescent paint to primary structural members in Shops and Auditorium	58,500	sf	2.00	117,000		
189		SUBTOTAL				11,451,116		
190								
191	TOTAL - SUPERSTRUCTURE							\$19,498,083
192								
193								
194	B20 EXTERIOR CLOSURE							
195								
196	B2010	EXTERIOR WALLS						
197		Exterior Wall Area	116,811	sf				
198								
199	042000	MASONRY						
200	040001	Mockup	1	ls	75,000.00	75,000		
201	040001	WA1 Brick veneer, Endicott, modular brick	50,650	sf	38.00	1,924,700		
202	040001	Premium for textured brick @ base, 4' high	3,800	sf	5.00	19,000		
203	040001	Premium for corbelled brick jamb, headers and sills at windows	3,011	lf	20.00	60,220		
204	040001	Precast base at curtainwall	1,160	sf	45.00	52,200		
205	040001	Sntered stone cladding	24,000	sf	75.00	1,800,000		
206	040001	Canopy column covers (8 ea)	1	ls	50,000.00	50,000		
207	040001	Miscellaneous flashings	51,810	sf	1.00	51,810		
208	040001	Staging to exterior wall; masonry only	51,810	sf	3.00	155,430		
209								
210	055000	MISC. METALS						
211	050001	Misc. metals at masonry including loose lintels (assumes relieving angles included in floor lbs/sf)	51,810	sf	2.00	103,620		
212								
213	070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
214	070001	Air barrier	125,811	sf	7.50	943,583		
215	070001	Air barrier at soffits and canopies	15,525	sf	7.50	116,438		
216	070001	Air barrier/flushing at windows	24,074	lf	6.25	150,463		
217	070001	AVB at roof perimeter	6,010	lf	8.00	48,080		
218	070001	Miscellaneous sealants to closure	125,811	sf	0.75	94,358		
219								
220	072100	THERMAL INSULATION						
221	072100	5" Mineral wool semi-rigid insulation at exterior closure	125,811	sf	5.00	629,055		
222	072100	Insulation at window openings	24,074	lf	6.00	144,444		
223	072100	Insulation at soffits	10,305	sf	5.00	51,525		
224								
225	076400	CLADDING						
226	076400	WB1 Corrugated metal panels at rising wall areas; Gym, Auditorium, monitor pop-ups, skylights, hidden rising walls @ sloped roofs)	25,425	sf	55.00	1,398,375		
227	076400	WB1 Corrugated metal panel fascia at sloped roofs, 24" high -	4,800	sf	80.00	384,000		
228	076400	WB2 Wood veneer phenolic rainscreen, typical; Prodema or similar	7,356	sf	80.00	588,480		
229	076400	WB2 Wood veneer phenolic rainscreen; Prodema or similar at main entry	3,420	sf	80.00	273,600		
230	076400	Allowance for custom graphic painting on metal panels	1	ls	50,000.00	50,000		
231	076400	Wood veneer phenolic at building soffits/ overhangs	10,305	sf	80.00	824,400		
232	076400	Wood veneer phenolic at canopy soffits	5,220	sf	80.00	417,600		
233	076400	Roof equipment screen, non-acoustic perforated metal panels, assume 12' high	790	lf	780.00	deleted		
234	076400	Penthouse cladding	9,000	sf	55.00	495,000		
235								
236	092900	GYPSTUM BOARD ASSEMBLIES						



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
BUILDING BACKUP								
237	092900 Penthouse cladding backup	9,000	sf	18.00	162,000			
238	092900 Framing and sheathing at soffits	15,525	sf	18.00	279,450			
239	092900 6" LGMF backup	116,811	sf	12.00	1,401,732			
240	092900 Gypsum Sheathing	116,811	sf	2.75	321,230			
241	092900 Drywall lining to interior face of stud backup	116,811	sf	3.75	438,041			
242								
243	101400 SIGNAGE							
244	Exterior signage (allowance per Architect)	1	ls	75,000.00	75,000			
245	SUBTOTAL					13,578,834		
246								
247	B2020 WINDOWS							
248	Exterior Wall Area	50,106	sf					
249								
250	061000 ROUGH CARPENTRY							
251	Wood blocking at openings	24,074	lf	12.00	288,888			
252								
253	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
254	Backer rod & double sealant	24,074	lf	9.00	216,666			
255								
256	080001 METAL WINDOWS							
257	Aluminum windows, triple glazed, typical	7,620	sf	125.00	952,500			
258	Premium for operable windows	93	ea	400.00	37,200			
259	Ribbon windows at Shops; 7'x5' (27#)	945	sf	125.00	118,125			
260	Clerestory ribbon windows at roof clerestory; 6'x5' (210#)	6,300	sf		deleted			
261	Ribbon windows at Metal Fab; 8'x5' (12#)	480	sf	125.00	60,000			
262	Clerestory glazing at shops sloped roofs (front & back), triple glazing	7,370	sf	155.00	1,142,350			
263	Curtainwall, triple glazed, 6" deep frame	27,141	sf	155.00	4,206,855			
264	Premium for decorative frit at curtainwall glazing (30%)	10,353	sf	25.00	258,825			
265	Premium for security glazing at main entrances	1	ls	50,000.00	50,000			
266	Sunshades					NR		
267								
268	089000 LOUVERS							
269	Louvers	250	sf	65.00	16,250			
270	SUBTOTAL					7,347,659		
271								
272	B2030 EXTERIOR DOORS							
273								
274	061000 ROUGH CARPENTRY							
275								
276	079200 JOINT SEALANTS							
277								
278	081110 HOLLOW METAL							
279								
280	083300 OVERHEAD DOOR							
281	83323 Garage doors, motorized							
282	83323 16'x14'	9	ea	20,160.00	181,440			
283	83323 16'x12'	1	ea	17,280.00	17,280			
284	83323 10'x12'	1	ea	10,800.00	10,800			
285	83323 7'x10'	1	ea	6,300.00	6,300			
286	083513 Bi-Folding Nanawall door, 15'x 10' high (1 loc)	150	sf	250.00	37,500			
287								
288	084410 CURTAINWALL							
289	080001 Glazed aluminum entrance door and hardware in CW frame (27 DBL, 19 SGL)	73	ea	5,000.00	365,000			
290								
291	087100 DOOR HARDWARE							
292	Auto openers - allow	2	ea	5,000.00	10,000			
293								
294	090007 PAINTING							
295	SUBTOTAL					628,320		
296								
297	TOTAL - EXTERIOR CLOSURE							\$21,554,813
298								
299								



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

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B30 ROOFING

055000 MISCELLANEOUS METALS

50001	Roof ladders	1	ls	15,000.00	15,000		
50001	Mechanical penthouse stair	1	ls	20,000.00	20,000		

061000 ROUGH CARPENTRY

061000	Wood blocking & rough carpentry	259,575	sf	1.20	311,490		
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070002 ROOFING AND FLASHING

070002	Flat roof; PVC roof membrane system, white, av. 7-1/2" insulation on 1/2" gyp protection board on 6-mil vapor barrier	259,575	total area				
070002	Flat roof; PVC roof membrane system, white, av. 7-1/2" insulation on 1/2" gyp protection board on 6-mil vapor barrier	170,025	sf	18.50	3,145,463		

070002	Sloped roof; PVC roof membrane system, white, 7-1/2" top layer on 1/2" gyp protection board on 6-mil vapor barrier	79,000	sf	18.50	1,461,500		
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070002	PVC roof membrane system at canopies	5,220	sf	15.50	80,910		
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070002	Waterproofing system at outdoor terraces	5,330	sf	20.00	106,600		
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070002	Outdoor Terrace south side	2,910	sf				
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070002	60% Pavers premium	1,746	sf	30.00	52,380		
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070002	40% Green roof, extensive, premium	1,164	sf	40.00	46,560		
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070002	Outdoor Terrace above Art room	2,420	sf				
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070002	75% Pavers, premium	1,815	sf	30.00	54,450		
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070002	25% Green roof, extensive, premium	605	sf	40.00	24,200		
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070002	Terrace furnishings					F,F,E	
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070002	Corrugated metal roofing system including perimeter trim	5,050	sf	30.00	151,500		
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Miscellaneous Roofing

070002	Roof edge, typical at masonry, 11" continuous metal cleat	1,730	lf	50.00	86,500		
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070002	Roof edge at clerestories, Auditorium, Gym, CW areas	5,979	lf	35.00	209,265		
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070002	Roof edge/fascia at canopies	605	lf	50.00	30,250		
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070002	Miscellaneous flashings, gutters, accessories etc.	259,575	sf	0.25	64,894		
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070002	Walkway pads - allow	5,100	sf	10.00	51,000		
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070002	Roof accessories; smoke hatches, roof hatches etc.	1	ls	50,000.00	50,000		
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070002	Tie-off davits	1	ls	50,000.00	NR		
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070002	Gutter & downspouts - allow @ site canopy	673	lf	40.00	26,920		
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080001 METAL WINDOWS

080001	5' high Glazed balcony railing at outdoor terraces	237	lf	600.00	142,200		
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	SUBTOTAL						6,131,082
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B3020 ROOF OPENINGS

086300 ROOF SKYLIGHTS

86300	Skylights;	3,202	total sf				
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86300	48"x48" Type 1	100	ea	2,000.00	200,000		
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86300	Round, 8' diameter, polycarbonate	16	ea	4,019.20	64,307		
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86300	Sloped glazed skylights (5 loc)	1,300	sf	175.00	227,500		
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86300	Smoke hatches at stage	2	ea	16,000.00	32,000		
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	SUBTOTAL						523,807
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TOTAL - ROOFING							\$6,654,889
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C10 INTERIOR CONSTRUCTION

C1010 PARTITIONS

040001 MASONRY

040001	8" CMU, fire rated, elevator shaft	4,480	sf	32.00	143,360		
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040001	4" CMU veneer to 10'-4" AFF in Auto Collision, Auto Tech and Metal Fabrication	12,000	sf	26.00	312,000		
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050001 MISCELLANEOUS METALS

050001	Seismic clips to CMU	70	ea	150.00	10,500		
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050001	Miscellaneous masonry accessories to interior CMU	16,480	sf	1.50	24,720		
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	Support framing at operable partitions & nana walls	335	lf	130.00	43,550		
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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING BACKUP							
362	061000 ROUGH CARPENTRY						
363	Blocking at partitions	402,320	sf	0.50	201,160		
364	078400 FIREPROOFING/FIRESTOPPING						
366	Fire stopping including slab edges and core	419,765	gsf	1.00	419,765		
367	078150 EXPANSION JOINTS						
368	Allowance for expansion joint covers	1	ls	100,000.00	100,000		
370	080002 GLASS AND GLAZING	23,533	total sf of all interior glazing (excl'd. Curtainwall and storefront)				
372	Frameless butt glazing w/ 1" channel at top & bottom;						
373	at open to below areas, 8'-8" high (1250 lf)	10,834	sf	90.00	975,060		
374	4' x 6'-10" high at each Classroom, Science, Teacher work room and Resource room (Theory carried below per room data sheets)	1,448	sf	85.00	123,080		
375	3' x 4' high at each Office	252	sf	85.00	21,420		
376	5' x 6'-8" high at Vocation spaces (10 loc)	333	sf	85.00	28,305		
377	10' high at Small group and Testing	1,360	sf	85.00	115,600		
378	4' x 6'-8" high at Shops to Theory						
379	9' high at Media and Think Tank (50 lf)	450	sf	90.00	40,500		
380	6'-10" high at Bio Tech including Clean room	656	sf	85.00	55,760		
381	Allow for glazing at per room data sheets; (assume 8' high)	7,944	sf	85.00	675,240		
382	Interior borrowed lites at locker room & custodial offices, kitchen and Admin waiting, assume 4' high	256	sf	85.00	21,760		
383	Premium for sound proof glass at Sound/Photo lab	120	sf	45.00	5,400		
384	Interior Curtainwall						
385	at Gym corridor, 12' high (78 lf)	936	sf	120.00	112,320		
386	at Weight room, 12' high (52 lf)	624	sf	120.00	74,880		
387	at Alt PE corridor, 12' high (13 lf)	156	sf	120.00	18,720		
388	Bi-Folding Nanawall door, 8' high, exterior grade, acoustic	335	lf	2,000.00	670,000		
389	Interior storefront at vestibules	846	sf	85.00	71,910		
390	Auditorium control booth window	1	ea	6,000.00	6,000		
391	Service window in Graphics, 4'x4'	2	ea	1,500.00	3,000		
392	Transaction window at Admin/ Security locations	2	ea	2,500.00	5,000		
393	Mirror, unframed in Weight room, 6'-10" high	750	sf	50.00	37,500		
394	092900 GYPSUM BOARD ASSEMBLIES						
396	Type 1A; 6" metal stud w/ 1 layers gwb each side, insulation	15,552	sf	16.50	256,608		
397	Furring/ column covers; assume 3 5/8" metal stud w/ 1 layer gwb	40,704	sf	8.50	345,984		
398	Type 2A in remaining shops, classrooms and corridor walls; 6" metal stud w/ 2 layers gwb one side, 1 layer other side, insulation	232,719	sf	18.00	4,188,942		
399	Type 2C; 8" metal stud w/ 2 layers gwb one side, 1 layer other side, insulation	2,592	sf	21.00	54,432		
400	Type 3A; 6" metal stud w/ 2 layers gwb each side, insulation	35,328	sf	21.50	759,552		
401	Type 3C; 8" metal stud w/ 2 layers gwb each side, insulation	1,072	sf	23.50	25,192		
402	Type 6A; 6" Metal stud, 1 layer 5/8" gwb one side, insulation	12,608	sf	13.00	163,904		
403	Type 7A; 6" Metal stud, 2 layers 5/8" gwb one side, insulation	14,560	sf	15.50	225,680		
404	Type 12B; Double 6" metal stud w/ 2 layers gwb each side, double insulation, sound isolation partition	46,334	sf	31.00	1,436,354		
405	Half height partitions	851	sf	10.00	8,510		
406	Allowance for high impact gwb, level 5 finish at select locations, moisture resistant gwb premium etc.	1	ls	150,000.00	150,000		
407	Lead lined doors and walls in dental x-ray rooms (4 rms)	1	ls	35,000.00	35,000		
408	102228 OPERABLE PARTITIONS						
409	Operable partitions					No scope	
411	SUBTOTAL						11,966,668
412							
413	C1020 INTERIOR DOORS						
414	081110 INTERIOR DOORS						
415	Single leaf interior door	413	ea	2,200.00	908,600		
416	Double leaf interior door	60	pr	3,800.00	228,000		
417							



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING BACKUP							
418	STC rated doors, fire rated doors, acoustic seals at doors etc. - allowance	1	ls	56,830.00	56,830		
419	Sidelights - frame	1,649	sf	30.00	49,470		
420							
421	083100 ACCESS DOORS AND FRAMES						
422	Access doors	1	ls	25,000.00	25,000		
423							
424	080002 GLASS AND GLAZING						
425	Glazing in doors - allow	1	ls	20,000.00	20,000		
426	Glazing in sidelights - allow	1,649	sf	35.00	57,715		
427							
428	083300 OVERHEAD DOOR						
429	Overhead rolling coiling doors - allowance @ kitchen/ scramble, Deli and Metal Fab storage	82	lf	640.00	52,480		
430							
431	084110 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS						
432	Glazed entrance door and hardware in storefront frame; single door	4	ea	4,500.00	18,000		
433	Glazed entrance door and hardware in storefront frame; double door	13	pr	9,000.00	117,000		
434							
435	084813 FIRE CURTAINS					No scope	
436							
437	087100 DOOR HARDWARE						
438	Included w/ door unit rate						
439							
440	090009 PAINTING						
441	Paint doors and frames	533	ea	150.00	79,950		
442	SUBTOTAL					1,613,045	
443							
444	C1030 SPECIALTIES / MILLWORK						
445							
446	055000 MISCELLANEOUS METALS						
447	Miscellaneous metals throughout building	419,765	gsf	1.50	629,648		
448	Hanging Unistrut grid in Shops; 25'x25' (5 loc)	3,125	sf	25.00	78,125		
449	SPED Classroom & OT/PT swing reinforcement	1	ea	1,000.00	1,000		
450	Stage catwalk including rails and ladders/stairs					NR	
451	Allowance for rails in Auditorium and interior ramps etc.	1	ls	75,000.00	75,000		
452							
453	061000 ROUGH CARPENTRY						
454	Wood blocking at interiors including at doors	399,765	gsf	0.30	119,930		
455	Backer panels in electrical closets	1	ls	10,000.00	10,000		
456							
457	062000 INTERIOR ARCHITECTURAL WOODWORK						
458	Window sill; solid surface (not taken at any clerestory windows)	1,040	lf	55.00	57,200		
459	Solid surface vanity counters	80	lf	375.00	30,000		
460	Solid surface cap at low walls	189	lf	50.00	9,450		
461	Solid surface sill at frameless butt glazing	2,243	lf	50.00	112,150		
462	Media center - allow	1	ls	100,000.00	100,000		
463	Circulation desk & counter					included in LS allow	
464	2 tier bench					included in LS allow	
465	Counters					included in LS allow	
466	Book shelves					included in LS allow	
467	Reception desk in Administration	54	lf	850.00	45,900		
468	Second entrance Reception desk and counter	15	lf	850.00	12,750		
469	Mailbox with base cabinet	18	lf	600.00	10,800		
470	Kitchenette; base cabinet, counter and upper cabinets	15	lf	700.00	10,500		
471	Student services reception desk w/ counter	15	lf	850.00	12,750		
472	Guidance reception desk and counter	25	lf	850.00	21,250		
473	Deli Café counter	15	lf	350.00	5,250		
474	Cosmetology Reception counter	15	lf	350.00	5,250		
475	Auto Collision Reception counter	15	lf	350.00	5,250		
476	Culinary Restaurant reception counter	15	lf	350.00	5,250		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
BUILDING BACKUP								
477	Benches outside classrooms at borrowed lites	144	lf	300.00	43,200			
478	Cafeteria							
479	Waste recycling counter	18	lf	300.00	5,400			
480	Wood bench, curved	75	lf	400.00	30,000			
481	Classroom/ Resource room/ Teacher Planning solid surface countertop (6 lf per classroom per narrative)	240	lf	275.00	66,000			
482	Electrical Tech; custom work station; plywood with base cabinet; 4'x4'	22	ea	2,500.00	55,000			
483	Miscellaneous millwork and trim not yet identified	1	ls	75,000.00	75,000			
484								
485	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
486	Miscellaneous sealants throughout building	419,765	sf	1.25	524,706			
487								
488	101100 VISUAL DISPLAY SURFACES							
489	Marker boards (qty per location per narrative and per shown on room data sheets)	11,000	sf	22.00	242,000			
490	Tackboards - allowance	4,000	sf	20.00	80,000			
491	IWB					F,F,E		
492								
493	101400 DISPLAY CASES							
494	Display cases	60	lf	1,000.00	60,000			
495								
496	101400 SIGNAGE							
497	Exterior signage (allowance per Architect)	1	ls	75,000.00	w/ Exterior Wall			
498	Room identification, Directional & safety signage, Building directory etc.	419,765	gsf	0.50	209,883			
499	Vinyl graphics - allowance per Architect	1	ls	275,000.00	275,000			
500								
501	102210 WIRE PARTITIONS							
502	Wire partitions and doors in shops (9 loc)	1,800	sf	35.00	63,000			
503								
504	102110 TOILET COMPARTMENTS							
505	ADA	14	ea	1,800.00	25,200			
506	Standard	32	ea	1,600.00	51,200			
507	Privacy curtain track in Community Health	240	lf	55.00	13,200			
508								
509	102800 TOILET ACCESSORIES							
510	Gang bathrooms	12	ea	3,000.00	36,000			
511	Locker room gang bathrooms	2	ea	2,500.00	5,000			
512	Single bathrooms	73	ea	1,500.00	109,500			
513	Shower accessories	13	ea	500.00	6,500			
514	Seat in ADA shower, premium	5	ea	1,000.00	5,000			
515	Adult and baby changing stations - allow	1	ls	10,000.00	10,000			
516	Janitors closet accessories	1	ls	7,500.00	7,500			
517								
518	104400 FIRE PROTECTION SPECIALTIES							
519	Fire extinguisher cabinets	1	ls	61,703.34	61,703			
520	AED cabinets	1	ls	5,000.00	5,000			
521								
522	105000 LOCKERS							
523	Corridor metal lockers; double tier, 15"x15"x30"	1,434	opes	190.00	272,460			
524	Shop cubbies; 4-tier, 15"x15"x15"	880	opes	125.00	110,000			
525	Gym lockers; Double tier ventilated lockers, 18"x18"x36"	76	opes	190.00	14,440			
526	Team room; Single tier athletic ventilated lockers; 18"x18"x72"	134	opes	350.00	46,900			
527	Athletic Ventiladed lockers; double tier, 18"x18"x36"	132	opes	190.00	25,080			
528	Lockers in gender neutral bathrooms, single tier	9	ea	350.00	3,150			
529	SUBTOTAL					3,894,475		
530								
531	TOTAL - INTERIOR CONSTRUCTION						\$17,474,188	
532								
533								
534	C20 STAIRCASES							
535								



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

536 **C2010 STAIR CONSTRUCTION**

537							
538	033000	CONCRETE					
539	033000	Concrete to stairs	11	flt	5,000.00	55,000	
540							
541	055000	MISCELLANEOUS METALS					
542	50001	Hub stairs, perforated metal pan risers and glass railings, 10'	1	flt	75,000.00	75,000	
543	50001	Hub stairs perforated metal pan risers and glass railings, 8' wide	1	flt	65,000.00	65,000	
544	50001	Egress stairs, enclosed (2 to roof)	4	flt	40,000.00	160,000	
545	50001	Egress stairs, open	5	flt	45,000.00	225,000	
546	50001	Stage stairs - allow	1	ls	15,000.00	15,000	
547	50001	Stairs to mezzanines, 10' high	4	ea	12,500.00	50,000	
548		SUBTOTAL					645,000

550 **C2020 STAIR FINISHES**

551							
552	090005	RESILIENT FLOORS					
553	90004	Hub stair - terrazzo treads, risers and landings	2	flt	25,000.00	50,000	
554	90005	Rubber tile at stairs - landings	675	sf	16.00	10,800	
555	90005	Rubber tile at stairs - treads & risers	1,170	lft	22.00	25,740	
556							
557	090007	PAINTING					
558	090007	Paint to staircases	15	flt	2,500.00	37,500	
559		SUBTOTAL					124,040

TOTAL - STAIRCASES							\$769,040
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C30 INTERIOR FINISHES

565 **C3010 WALL FINISHES**

566							
567							
568	090002	TILE					
569	90002	Tiles wainscot -	75,120	sf total tile			
570	90002	10' high in Corridors with no lockers	45,000	sf	24.00	1,080,000	
571	90002	9' high in Gang toilets and locker rooms	10,980	sf	24.00	263,520	
572	90002	9' high in Shop, non-staff single use toilets, all walls	11,250	sf	24.00	270,000	
573	90002	9' high in Shop, single use shower/toilets, all walls	1,080	sf	24.00	25,920	
574	90002	9' high in Staff single use toilets, wet wall only	1,260	sf	24.00	30,240	
575	90002	Porcelain tile in Kitchen and Culinary kitchen, full height (10')	5,550	sf	24.00	133,200	
576							
577	064000	INTERIOR ARCHITECTURAL WOODWORK					
578	90002	Decorative finish to column covers in common areas, cafeteria etc. - allow	40	loc	3,500.00	140,000	
579	62000	Wood paneling - per Architect qtys					
580	62000	Media Center	1,500	sf	80.00	120,000	
581	62000	Cafeteria/HUB	5,000	sf	80.00	400,000	
582	62000	Auditorium	2,000	sf	80.00	160,000	
583	62000	Proscenium	600	sf	80.00	48,000	
584	62000	Culinary restaurant	1,500	sf	80.00	120,000	
585	62000	Acoustical wood paneling in Auditorium - per Architect qtys					
586	62000	Auditorium	1,000	sf	120.00	120,000	
587	62000	Cafeteria/HUB	2,000	sf	120.00	240,000	
588	62000	Plywood at exposed walls in Carpentry, Elect tech, Plumbing, HVAC and CAD/CAM	12,000	sf	5.00	60,000	
589	102600	FRP in Custodial closets - allow	1,440	sf	12.00	17,280	
590							
591	098413	SOUND ABSORBING PANELS					
592	98414	Acoustic wall treatment, per Architect qtys					
593	98414	Tectum					
594	98414	Shops (8)	9,600	sf	18.00	172,800	
595	98414	Graphics	800	sf	18.00	14,400	
596	98414	Alt PE	900	sf	18.00	16,200	
597	98414	Gymnasium	1,800	sf	18.00	32,400	
598	98414	Robotic, Engineering & Dentistry	1,200	sf	18.00	21,600	



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING BACKUP							
599 98414	Ecophon						
600 98414	Classroom , Resource, Theory	3,120	sf	30.00	93,600		
601 98414	Media Center	800	sf	30.00	24,000		
602 98414	Corridors	4,000	sf	30.00	120,000		
603 090009	PAINTING						
604 90007	Paint to GWB	701,397	sf	0.90	631,257		
605 90007	Miscellaneous touch-up paint throughout	419,765	gsf	0.15	62,965		
606	SUBTOTAL					4,417,382	
607							
608							
609	C3020 FLOOR FINISHES	395,252	total floor finishes				
610 033000	Concrete						
611	Architectural Finished Polished Concrete in Salon and Auditorium cross aisles	3,360	sf	12.00	40,320		
612	Architectural Finished Sealed Concrete in First floor Shops	92,500	sf	5.00	462,500		
613	Sealed concrete in receiving area/ BOH spaces, penthouse	35,200	sf	2.00	70,400		
614							
615 090002	TILE						
616	Porcelain tile in Locker rooms, toilets	11,700	sf	26.00	304,200		
617	Porcelain tile in kitchen & Culinary kitchen	6,655	sf	26.00	173,030		
618	Tile base - w/ wall finishes						
619 090005	EPOXY TERRAZZO						
620 621	Epoxy terrazzo in Cafeteria, main corridor, Culinary Restaurant, Theory and Cafe to entries	21,300	sf	40.00	852,000		
622							
623 090005	RESILIENT FLOORS						
624	Moisture mitigation at resilient flooring	200,887	sf	Assumed Not Required			
625	Resilient Athletic flooring in Alt P.E.	2,740	sf	18.00	49,320		
626	Interlocking rubber floor tile in Weight room	1,770	sf	15.00	26,550		
627	Sheet Linoleum flooring at all remaining areas	196,377	sf	6.00	1,178,262		
628	Resilient base	44,246	lf	3.00	132,738		
629 096810	TILE CARPETING						
630 631	Carpet in Media and Auditorium aisles	8,500	sf	6.00	51,000		
632							
633 096400	WOOD FLOORING						
634	Stage flooring	1,020	sf	24.00	24,480		
635							
636 096466	WOOD ATHLETIC FLOORING						
637	Wood Athletic flooring in Gymnasium	12,880	sf	22.00	283,360		
638	Vented cove base at gym flooring	460	lf	8.00	3,680		
639	SUBTOTAL					3,651,840	
640							
641	C3030 CEILING FINISHES						
642							
643 092900	GYPSON BOARD ASSEMBLIES						
644	Culinary (Restaurant/ Café & Theory C/R)						
645	GWB/ soffits (25%)	1,199	sf	15.00	17,985		
646	DVC						
647	GWB/ soffits (25%)	573	sf	15.00	8,595		
648	Marketing & BAT						
649	GWB/ soffits (25%)	693	sf	15.00	10,395		
650	Acoustically isolated ceilings at all classrooms above Shops, kitchen below Gym	13,155	sf	24.00	315,720		
651	GWB soffits throughout - allowance (includes at skylights, in classrooms etc.)	399,765	gsf	0.75	299,824		
652							
653 095100	ACOUSTICAL TILE						
654	ACT ceilings, typical	145,000	sf	7.00	1,015,000		
655	ACT ceilings in remaining Vocational areas, 2x4	35,000	sf	8.00	280,000		
656	ACT ceilings in Corridors, 2x4 with 2x6 accents	58,000	sf	8.00	464,000		
657	ACT ceilings in Kitchen, washable	6,655	sf	9.00	59,895		
658	ACT ceilings in Toilets & Locker rooms, Healthzone or similar	11,700	sf	8.00	93,600		
659	Specialty ceilings;						



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

660	Cafeteria/HUB;						
661	Acoustic baffles in double height spaces	5,000	sf	40.00	200,000		
662	ACT, 2x6	11,500	sf	8.50	97,750		
663	Media Center						
664	Wood ceiling (50%)	1,950	sf	50.00	97,500		
665	ACT, 2x8 (50%)	1,950	sf	9.50	18,525		
666	Salon;						
667	Perforated metal ceiling	1,793	sf	40.00	71,720		
668	Salon support rooms; ACT, 2x6	4,550	sf	8.50	38,675		
669	Culinary (Restaurant/ Café & Theory C/R)						
670	Wood ceiling (25%)	1,199	sf	50.00	59,950		
671	ACT, 2x6 (50%)	2,398	sf	8.50	20,383		
672	GWB/ soffits (25%)	1,199	sf		taken above w/ GWB		
673	Auditorium - wood acoustic panels with reflector panels; allowance	6,750	sf	50.00	337,500		
674	DVC						
675	Metal ceiling (25%)	573	sf	40.00	22,920		
676	ACT, 2x6 (50%)	1,145	sf	8.50	9,733		
677	GWB/ soffits (25%)	573	sf		taken above w/ GWB		
678	Marketing & BAT						
679	Metal ceiling (25%)	693	sf	8.50	5,891		
680	ACT, 2x6 (50%)	1,385	sf	40.00	55,400		
681	GWB/ soffits (25%)	693	sf		taken above w/ GWB		
682							
683	090009 PAINTING						
684	Paint to exposed ceilings including Shops and Gymnasium	80,600	sf	3.00	241,800		
685	Paint to exposed ceilings in penthouse	20,000	sf	3.00	60,000		
686	SUBTOTAL						3,902,761

TOTAL - INTERIOR FINISHES

\$11,971,983

D10 CONVEYING SYSTEMS

D1010 ELEVATOR

055000 MISCELLANEOUS METALS

696	Pit ladder and miscellaneous metals	3	ea	900.00	2,700		
697	Sill angles	35	lf	25.00	875		

142100 ELEVATOR

700	Electric Traction freight elevator, 3 stop	1	ea	210,000.00	210,000		
701	Holeless Hydraulic passenger elevator, 2 stop	2	ea	160,000.00	320,000		
702	LULA at plumbing and electrical tech mezzanine, 2-stop, 10' rise	2	ea	75,000.00	150,000		
703	Vehicle lifts				F,F,E		
704	SUBTOTAL						683,575

TOTAL - CONVEYING SYSTEMS

\$683,575

D20 PLUMBING

D20 PLUMBING, GENERALLY

Equipment

713	Point of use electric water heaters	8	ea	5,000.00	40,000		
714	Domestic water heating equipment	1	ea	150,000.00	150,000		
715	Tepid water electric water heater, 80 kw	2	ea	15,000.00	30,000		
716	Water meter assembly	1	ea	4,500.00	4,500		
717	Domestic water sub-meter assembly	10	ea	650.00	6,500		
718	Connection to gas meter	1	ea	1,400.00	1,400		
719	Reduced pressure backflow preventer	2	ea	5,600.00	11,200		
720	Hot water circulator pump assembly	4	ea	1,400.00	5,600		
721	Mixing valve	2	ea	6,500.00	13,000		
722	Elevator sump pump	3	ea	5,200.00	15,600		
723	Roof/overflow drains	102	ea	800.00	81,600		



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
BUILDING BACKUP								
724	Floor drain	65	ea	675.00	43,875			
725	Kitchen floor drain	22	ea	850.00	18,700			
726	Kitchen floor sink	18	ea	2,500.00	45,000			
727	Trench drain	100	lf	100.00	10,000			
728	Trap primer	35	ea	1,050.00	36,750			
729	Freezeproof wall hydrant	12	ea	450.00	5,400			
730	Hose bibb	40	ea	300.00	12,000			
731	Interior grease interceptor	4	ea	3,000.00	12,000			
732	Exterior grease interceptor, 8000 gal	1	ea	15,000.00	15,000			
733	Duplex air compressor, refrigerated dryer, 300 gal receiver (Carpentry & Auto shops)	2	ea	27,000.00	54,000			
734	Duplex vacuum pump with 120 gal receiver (Dental & Science)	2	ea	24,000.00	48,000			
735	Emergency shower/eyewash w TMV & drain	20	ea	3,500.00	70,000			
736	Acid neutralization system	1	ea	51,000.00	51,000			
737	Gas/oil interceptor (Auto Maintenance Shop)	1	ea	5,500.00	5,500			
738	Rough-in & connection to Kitchen/Culinary	1	ls	55,000.00	55,000			
739	<u>Plumbing Fixtures</u>							
740	Water closet	46	ea	1,525.00	70,150			
741	Water closet ADA	71	ea	1,550.00	110,050			
742	Three-station lavatory	11	ea	8,700.00	95,700			
743	Lavatory ADA wall hung	65	ea	1,275.00	82,875			
744	Sink countertop	10	ea	1,300.00	13,000			
745	Break room sink ADA countertop	12	ea	1,250.00	15,000			
746	Classroom sink countertop	42	ea	1,250.00	52,500			
747	Art sink with solids interceptor	4	ea	1,700.00	6,800			
748	Shower	16	ea	1,150.00	18,400			
749	Shower ADA	4	ea	3,600.00	14,400			
750	Mop sink	10	ea	1,150.00	11,500			
751	Drinking fountain; bi-level w/ bottle fill	9	ea	3,850.00	34,650			
752	Drinking fountain; single-level	16	ea	1,600.00	25,600			
753	Science room faucet (integral sink by others)	100	ea	800.00	80,000			
754	Kitchen hand wash sink	8	ea	1,450.00	11,600			
755	Ice maker connection	4	ea	325.00	1,300			
756	Washer outlet box	2	ea	350.00	700			
757	<u>Domestic Water Type L Copper Pipe</u>							
758	Domestic water pipe with fittings & hangers	399,765	sf	4.00	1,599,060			
759	Domestic water pipe insulation	399,765	sf	1.00	399,765			
760	<u>Sanitary Waste And Vent Pipe w/ Hangers</u>							
761	Sanitary waste pipe with fittings & hangers	399,765	sf	3.10	1,239,272			
762	Kitchen waste pipe with fittings & hangers	399,765	sf	0.30	119,930			
763	Garage waste pipe with fittings & hangers	399,765	sf	0.10	39,977			
764	Reclaim system piping and UV filtration	1	ls	560,000.00	560,000			
765	<u>Acid Waste Piping</u>							
766	Polypropylene pipe with fittings & hangers	399,765	sf	1.15	459,730			
767	<u>Storm Drainage, Hubless Cast Iron Pipe</u>							
768	Storm water pipe with fittings & hangers	399,765	sf	1.70	679,601			
769	Pipe insulation on horizontal runs	399,765	sf	0.25	99,941			
770	<u>Gas And Fuel Distribution Pipe</u>							
771	Gas pipe with fittings & hangers	399,765	sf	1.10	439,742			
772	<u>Specialty Gas Pipe w/ Hangers</u>							
773	Specialty Gas Pipe w/ Hangers (CA, VAC, Cutting Gas)	399,765	sf	0.75	299,824			
774	<u>Miscellaneous</u>							
775	System testing and flushing	1	ls	75,000.00	75,000			
776	Coring, cutting, sleeves & fire stopping	1	ls	90,000.00	90,000			
777	Structural Steel Comp. and misc. bracing	1	ls	60,000.00	60,000			
778	Hydraulic lifts/rigging	1	ls	153,000.00	153,000			
779	Shop drawings / BIM / ENG Support / As-Builts	1	ls	195,100.00	195,100			
780	Fees & permits	1	ls	92,500.00	92,500			
781	SUBTOTAL					8,088,292		
782	TOTAL - PLUMBING							\$8,088,292



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

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D30 HVAC

D30 HVAC, GENERALLY

Central plant equipment

Modular air source heat recovery heat pump 95 tons	9	ea	95,000.00	855,000
Adiabatic dry cooler, 620 tons	1	ea	315,000.00	315,000
Gas fired HW boiler 3000 MBH	2	ea	135,000.00	270,000
Plate and frame heat exchangers	1	ls	50,000.00	50,000
Condenser water buffer tanks, 500 gal	3	ea	7,800.00	23,400
Expansion tank	3	ea	5,500.00	16,500
Air separator	3	ea	5,000.00	15,000
Glycol system	3	ea	10,000.00	30,000
Chemical treatment system	1	ls	12,000.00	12,000

Heating equipment

Unit heater HW	20	ea	900.00	18,000
Cabinet unit heater HW	10	ea	1,100.00	11,000
Convactor HW	4	ea	545.00	2,180
Radiant ceiling panel, heating & cooling	399,765	sf	2.00	799,530
Fin tube radiation	399,765	sf	0.10	39,977

Cooling equipment

Chilled beams, passive				NIC
Ductless split AC unit with ACCU, 3 tons MDF	2	ea	11,500.00	23,000
Ductless split AC unit with ACCU, 2 tons	20	ea	7,500.00	150,000

Pumps

Primary condenser water pump	3	ea	24,000.00	72,000
Secondary condenser water pump	3	ea	22,000.00	66,000
Chilled water pump with VFD	3	ea	18,000.00	54,000
Compensated chilled water pump with VFD	3	ea	12,000.00	36,000
Heating water pump with VFD	3	ea	10,000.00	30,000

Air distribution

RTU-1 100% OA CHW, HW, ERW (NE Class)	9,200	cfm	16.00	147,200
RTU-2 100% OA CHW, HW, ERW (NC Class)	9,200	cfm	16.00	147,200
RTU-3 100% OA CHW, HW, ERW (SE Class)	12,000	cfm	16.00	192,000
RTU-4 100% OA CHW, HW, ERW (SC Class)	10,000	cfm	16.00	160,000
RTU-5 100% OA HW, ERW (Metal Fab)	9,200	cfm	15.50	142,600
RTU-6 100% OA CHW, HW, ERW (CAD)	9,200	cfm	15.00	138,000
RTU-7 100% OA CHW, HW, ERW (Admin)	15,000	cfm	15.00	225,000
RTU-8 100% OA CHW, HW, ERW (Robotics)	10,000	cfm	15.00	150,000
RTU-9 100% OA CHW, HW, ERW (Biotech)	5,000	cfm	15.00	75,000
RTU-10 100% OA CHW, HW, ERW (Childcare)	12,000	cfm	15.00	180,000
RTU-11 100% OA CHW, HW, ERW (Health)	9,600	cfm	15.00	144,000
RTU-12 100% OA CHW, HW, ERW (Marketing)	10,500	cfm	15.00	157,500
RTU-13 Recirc CHW, HW, ERW (Cafeteria)	8,000	cfm	15.50	124,000
RTU-14 Recirc CHW, HW, ERW (Gym)	12,000	cfm	15.50	186,000
RTU-15 Recirc CHW, HW, ERW (Small Gym)	6,800	cfm	15.50	105,400
RTU-16 Recirc CHW, HW, ERW (Weight)	2,500	cfm	15.50	38,750
RTU-17 Recirc CHW, HW, ERW (Locker)	6,000	cfm	15.50	93,000
RTU-18 100% OA CHW, HW, ERW (Culinary)	7,500	cfm	15.00	112,500
RTU-19 Recirc CHW, HW, ERW (Kitchen/Fac)	6,000	cfm	15.50	93,000
RTU-20 Recirc CHW, HW, ERW (Auditorium)	10,000	cfm	15.50	155,000
MAU-1 100% OA CHW, HW (Kitchen Makeup)	6,000	cfm	16.00	96,000
MAU-2 (Culinary Kitchen)	6,000	cfm	16.00	96,000
MAU-3 100% OA HW (Prep Booths)	12,000	cfm	13.00	156,000
HV-1 100% OA HW, ERW (Auto Tech) RTU	19,000	cfm	13.00	247,000
HV-2 100% OA HW, ERW (Auto Collision) RTU	19,000	cfm	13.00	247,000
HV-3 100% OA HW, ERW (Const Tech) RTU	15,000	cfm	13.00	195,000
HV-4 100% OA HW, ERW (HVAC Tech) RTU	13,500	cfm	13.00	175,500
HV-5 100% OA HW, ERW (Plumbing Tech) RTU	13,500	cfm	13.00	175,500
HV-6 100% OA HW, ERW (Elec Tech) RTU	13,500	cfm	13.00	175,500
RTU curbs	1	ls	210,000.00	210,000
Misc air distribution equipment	399,765	sf	1.00	399,765



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
BUILDING BACKUP								
847	Miscellaneous exhaust fans, including fume hood exhaust fans	399,765	sf	0.50	199,883			
848	Vehicle exhaust system, 2,500 cfm	1	ls	95,000.00	95,000			
849	Paint/Prep booth exhaust system w/duct	1	ls	30,000.00	30,000			
850	Welding booth exhaust system w/duct (22 booths) 2 @ 1,600 cfm	1	ls	65,000.00	65,000			
851	Dust collection system w/duct, 4,000 cfm	1	ls	70,000.00	70,000			
852	<u>Sheet metal & Accessories</u>							
853	Sheet metal	399,765	sf	13.00	5,196,945			
854	Duct insulation	399,765	sf	2.00	799,530			
855	Shop equipment flues/intakes	1	ls	50,000.00	50,000			
856	Boiler flues/intakes	1	ls	20,000.00	20,000			
857	Sound attenuators	1	ls	270,000.00	270,000			
858	Sheet metal accessories	399,765	sf	2.25	899,471			
859	<u>Piping</u>							
860	<u>Hot Water Piping</u>							
861	Hot water piping with fittings & hangers	399,765	sf	4.50	1,798,943			
862	<u>Chilled Water Piping</u>							
863	Chilled water piping with fittings & hangers	399,765	sf	4.50	1,798,943			
864	<u>Refrigerant Piping</u>							
865	230000 Refrigerant piping with fittings & hangers	399,765	sf	0.20	79,953			
866	230000 <u>Condensate Drain Piping</u>							
867	230000 Condensate drain piping with fittings & hangers	399,765	sf	0.20	79,953			
868	230000 <u>Piping Insulation</u>							
869	230000 Piping insulation	399,765	sf	2.50	999,413			
870	230000 <u>Automatic Temperature Controls</u>							
871	230000 Automatic temperature controls DDC	399,765	sf	6.50	2,598,473			
872	230000 <u>Balancing</u>							
873	230000 System testing & balancing	399,765	sf	1.00	399,765			
874	230000 <u>Miscellaneous</u>							
875	230000 System testing and flushing	1	ls	100,000.00	100,000			
876	230000 Commissioning assistance	1	ls	150,000.00	150,000			
877	230000 Vibration & seismic	1	ls	150,000.00	150,000			
878	230000 Coring, cutting, sleeves & fire stopping	1	ls	123,200.00	123,200			
879	230000 Structural Steel Comp. and misc. bracing	1	ls	79,000.00	79,000			
880	230000 Hydraulic lifts/rigging	1	ls	250,000.00	250,000			
881	230000 Shop drawings / BIM / ENG Support / As-Builts	1	ls	362,700.00	362,700			
882	230000 Fees & permits	1	ls	223,000.00	223,000			
883	230000							
884	230000 Large Project HVAC Premium	8%	ls	24,717,174	1,977,374			
885	230000 Savings for indoor AHU in penthouse	1	ls	(200,000.00)	(200,000)			
886	230000 HVAC in penthouse	20,000	gsf	15.00	300,000			
887	230000 Add A/C in large shop areas	70,000	sf	12.00	840,000			
888	230000							
889	230000							
890	TOTAL - HVAC							\$27,634,548
891								
892								
893	D40 FIRE PROTECTION							
894								
895	D40 FIRE PROTECTION, GENERALLY							
896	210000 Fire pump 1000 gpm, jockey pump, and controllers	1	ea	95,000.00	95,000			
897	210000 8" Double check valve assembly	1	ea	16,500.00	16,500			
898	210000 8" Main alarm check valve	1	ea	8,000.00	8,000			
899	210000 Storz fire department connection	1	ea	2,100.00	2,100			
900	210000 Riser check valve assembly	1	ea	3,800.00	3,800			
901	210000 Zone control valve station	9	ea	2,400.00	21,600			
902	210000 Fire department valve	18	ea	1,200.00	21,600			
903	210000 Fire department bell	1	ea	650.00	650			
904	210000 Kitchen hood fire extinguishing system	1	ea				by others	
905	210000 Sprinkler heads	419,765	sf	1.10	461,742			
906	210000 Distribution piping with fittings & hangers	419,765	sf	2.30	965,460			
907	210000 Main sprinkler piping with fittings & hangers	419,765	sf	1.70	713,601			
908	210000 <u>Miscellaneous</u>							



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING BACKUP							
909	210000						
		1	ls	32,300.00	32,300		
910	210000						
		1	ls	52,000.00	52,000		
911	210000						
		1	ls	31,200.00	31,200		
912	210000						
		1	ls	57,000.00	57,000		
913	210000						
		1	ls	82,000.00	82,000		
914	210000						
		1	ls	31,000.00	31,000		
915							
						2,595,553	
916							
917							
							\$2,595,553
918							
919							
920							
	D50 ELECTRICAL						
921							
922	260000						
	D5010 ELECTRICAL SYSTEMS						
923	260000						
		2	ea	110,000.00	220,000		
924	260000						
		1	ls	65,000.00	65,000		
925	260000						
		3	ea	25,000.00	75,000		
926	260000						
		31	ea	3,000.00	93,000		
927	260000						
		24	ea	6,000.00	144,000		
928	260000						
		5	ea	2,500.00	12,500		
929	260000						
		4	ea	36,500.00	146,000		
930	260000						
		9	ea	11,500.00	103,500		
931	260000						
		6	ea	1,000.00	6,000		
932	260000						
		399,765	sf	2.50	999,413		
933	260000						
934	260000						
		1	ls	360,000.00	360,000		
935	260000						
		1	ea	2,500.00	2,500		
936	260000						
		1	ea	12,300.00	12,300		
937	260000						
		1	ea	5,950.00	5,950		
938	260000						
		1	ea	5,125.00	5,125		
939	260000						
		1	ls	25,000.00	25,000		
940	260000						
		24	ea	3,000.00	72,000		
941	260000						
		12	ea	6,000.00	72,000		
942	260000						
		9	ea	11,500.00	103,500		
943	260000						
		399,765	sf	2.50	999,413		
944	260000						
945	260000						
		2	ea	30,000.00	60,000		
946	260000						
947	260000						
		1	ls	15,000.00	15,000		
948	260000						
949	260000						
		399,765	sf	1.50	599,648		
950	260000						
		1	ea	8,500.00	8,500		
951	260000						
		1	ea	1,500.00	1,500		
952	260000						
		3	ea	4,000.00	12,000		
953	260000						
		3	ea	1,200.00	3,600		
954	260000						
		3	ea	1,200.00	3,600		
955	260000						
		9	ea	8,500.00	76,500		
956	260000						
		2	ea	1,500.00	3,000		
957	260000						
		19	ea	4,500.00	85,500		
958	260000						
		1	ea	4,500.00	4,500		
959	260000						
		3	ea	4,500.00	13,500		
960	260000						
		1	ea	2,500.00	2,500		
961	260000						
		6	ea	2,000.00	12,000		
962	260000						
		35	ea	350.00	12,250		
963	260000						
		22	ea	2,500.00	55,000		
964	260000						
		1	ea	650.00	650		
965	260000						
		1	ea	2,500.00	2,500		
966	260000						
		2	ea	1,500.00	3,000		
967	260000						
		1	ea	1,500.00	1,500		
968	260000						
		1	ea	1,500.00	1,500		
969	260000						
		21	ea	1,500.00	31,500		
970	260000						
		10	ea	1,000.00	10,000		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING BACKUP							
971	260000 DDC feed and connection	1	ea	650.00	650		
972	260000 WH feed and connection	3	ea	650.00	1,950		
973	260000 Kiln feed and connection	1	ea	5,000.00	5,000		
974	260000 VFD feed and connection only	9	ea	850.00	7,650		
975	260000 Kitchen equipment wiring	1	ls	20,000.00	20,000		
976	260000 Shop & lab equipment wiring	1	ls	20,000.00	20,000		
977	260000 SUBTOTAL					4,596,699	
978	260000						
979	260000 D5020 LIGHTING & POWER						
980	260000 <u>Lighting & Branch Power</u>						
981	260000 LED Lighting	399,765	sf	6.50	2,598,473		
982	260000 Gymnasium lighting (allow)	24	ea	550.00	13,200		
983	260000 Exit and egress Lighting	399,765	sf	0.25	99,941		
984	260000 Exterior building lighting	1	ls	15,000.00	15,000		
985	260000 Penthouse fitout	20,000	gsf	10.00	200,000		
986	260000 <u>Lighting control system</u>						
987	260000 Network Lighting and controlled receptacle system	399,765	sf	1.50	599,648		
988	260000 <u>Branch devices</u>						
989	260000 Branch devices	399,765	sf	0.50	199,883		
990	260000 <u>Lighting and branch circuitry</u>						
991	260000 Lighting & branch circuitry	399,765	sf	4.75	1,898,884		
992	260000 SUBTOTAL					5,625,029	
993	260000						
994	260000 D5030 COMMUNICATION & SECURITY SYSTEMS						
995	260000 Penthouse fitout	20,000	gsf	10.00	200,000		
996	260000 <u>Fire Alarm</u>						
997	260000 Control panel (with mass Notification)	1	ls	30,000.00	30,000		
998	260000 LCD annunciator	2	loc	1,500.00	3,000		
999	260000 Graphic map	1	ea	850.00	850		
1000	260000 Knox box	1	ea	350.00	350		
1001	260000 Beacon	1	ea	225.00	225		
1002	260000 Radio master box	1	ea	8,500.00	8,500		
1003	260000 Devices and cabling (mass notification)	399,765	sf	3.00	1,199,295		
1004	260000 Testing and programming	1	ls	10,000.00	10,000		
1005	260000 DAS/BDA system	399,765	sf	0.50	199,883		
1006	260000 <u>Security System</u>						
1007	260000 Head end	1	ls	50,000.00	50,000		
1008	260000 Devices and cabling	399,765	sf	3.50	1,399,178		
1009	260000 <u>Telephone/Data/CATV</u>						
1010	260000 Network switches, servers etc. (By owner)					By Owner	
1011	260000 MDF Fit-out	1	ea	15,000.00	15,000		
1012	260000 IDF Fit-out	8	ea	8,500.00	68,000		
1013	260000 Telecommunications rough in	399,765	sf	1.00	399,765		
1014	260000 Telecommunications devices and cabling inc WAP	399,765	sf	2.50	999,413		
1015	260000 Cellular repeater system, Wilson Pro	1	ls	100,000.00	100,000		
1016	260000 <u>Digital Signage System</u>						
1017	260000 Digital Signage System (rough in only)	399,765	sf	0.10	39,977		
1018	260000 <u>Two - Way Call System</u>						
1019	260000 Two - Way Call System	399,765	sf	0.10	39,977		
1020	260000 <u>Public Address/Clock System</u>						
1021	260000 PA/Master Clock system	399,765	sf	1.15	459,730		
1022	260000 <u>Audio Visual (rough-in and power only)</u>						
1023	260000 AV equipment					By Owner	
1024	260000 Rough-In power, conduit and backboxes only	399,765	sf	0.50	199,883		
1025	260000 Classroom AV	80	rms	5,000.00	400,000		
1026	260000 Speech reinforcement system, allow	399,765	sf	0.50	NIC per GGD		
1027	260000 <u>Auditorium</u>						
1028	260000 Performance lighting and dimming system, allow per Architect	1	ls	175,000.00	175,000		
1029	260000 Auditorium AV (allowance per HMFH)	1	ls	175,000.00	175,000		
1030	260000 <u>Sound Systems, allow</u>						
1031	260000 Auditorium lecture hall	1	ls	40,000.00	40,000		
1032	260000 Gymnasium	1	ls	30,000.00	30,000		



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
BUILDING BACKUP								
1033 260000	Cafeteria	1	ls	20,000.00	20,000			
1034 260000	Allowance for additional sound systems	2	loc	6,000.00	12,000			
1035 260000	<u>Gymnasium</u>							
1036 260000	Scoreboard and shot clocks, power only	1	ls	5,000.00	5,000			
1037 260000	Gym equipment feeds and connections	1	ls	15,000.00	15,000			
1038 260000	<u>Grounding Protection</u>							
1039 260000	Grounding	1	ls	40,000.00	40,000			
1040 260000	Lightning protection	1	ls	175,000.00	175,000			
1041 260000	SUBTOTAL					6,510,026		
1042 260000								
1043 260000	D5040 OTHER ELECTRICAL SYSTEMS							
1044 260000	<u>Miscellaneous</u>							
1045 260000	Temp power and lights	1	ls	350,000.00	350,000			
1046 260000	Testing and studies	1	ls	30,000.00	30,000			
1047 260000	Seismic restraints	1	ls	10,000.00	10,000			
1048 260000	Coordination, BIM, shop drawings	1	ls	60,000.00	60,000			
1049 260000	Fees & Permits	1	ls	210,000.00	210,000			
1050 260000	SUBTOTAL					660,000		
1051 260000								
1052 260000	TOTAL - ELECTRICAL							\$17,391,754
1053 260000								
1054 260000								
1055 260000	E10 EQUIPMENT							
1056 260000								
1057 260000	E10 EQUIPMENT, GENERALLY							
1058 260000								
1059 260000	112000 LOADING DOCK EQUIPMENT							
1060 260000	Loading dock equipment; two sets bumpers, removeable safety rails (assume compactor is F,F,E)	1	ls	28,500.00	28,500			
1061 260000								
1062 260000	110620 THEATRICAL EQUIPMENT							
1063 260000	Stage rigging (allowance per HMFH)	1	ls	125,000.00	125,000			
1064 260000	Auditorium AV (allowance per HMFH)	1	ls	175,000.00	w/ 260000			
1065 260000	Auditorium seating	600	ea	300.00	180,000			
1066 260000	Auditorium seating w/ arm tablet	150	ea	360.00	54,000			
1067 260000								
1068 260000	113100 APPLIANCES							
1069 260000	Residential appliances	1	ls	50,000.00	50,000			
1070 260000								
1071 260000	114000 FOOD SERVICE EQUIPMENT							
1072 260000	Kitchen equipment	1	ls	820,000.00	820,000			
1073 260000	Culinary equipment	1	ls	750,000.00	750,000			
1074 260000								
1075 260000	115213 PROJECTION SCREENS							
1076 260000	Projection screens - allowance (1 Gym & 1 Auditorium)	1	ls	30,000.00	30,000			
1077 260000								
1078 260000	115300 EDUCATIONAL EQUIPMENT							
1079 260000	<i>Allowances provided by HMFH;</i>							
1080 260000	Downdraft paint booth in Auto Collision	2	ea	100,000.00	200,000			
1081 260000	Auto Collision Prep Booth	2	ea	75,000.00	150,000			
1082 260000	Miscellaneous shop equipment; new and existing	1	loc	1,200,000.00	1,200,000			
1083 260000	Electrified rail system in Metal Fabrication	1	ls	150,000.00	150,000			
1084 260000	Lab equipment;							
1085 260000	Double sided fume hood (1 per Science classroom)	12	rms	14,000.00	168,000			
1086 260000	Double sided fume hood (2 @ bioTech classroom)	2	rms	14,000.00	28,000			
1087 260000	Misc. equipment - goggle cabinets, pegboards etc. - allowance	13	rms	2,500.00	32,500			
1088 260000	Kiln	1	ea	5,000.00	5,000			
1089 260000	OFCI equipment (plasma cutters, x-rap equipment etc.) - allowance	1	ls	50,000.00	50,000			
1090 260000								
1091 260000	116600 GYM EQUIPMENT							
1092 260000	Gym wall pads	2,280	sf	17.00	38,760			
1093 260000	Basketball backstops; swing up; electric operated	6	loc	10,000.00	60,000			



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

1094	Gymnasium dividing net; electrically operated	1	ea	40,000.00	40,000		
1095	Volleyball net and standards (6 loc)	1	ls	10,000.00	10,000		
1096	Telescoping bleachers (1200 seat capacity)	1	ls	288,000.00	288,000		
1097	Scoreboard w/ shot clock - allow	2	ea	25,000.00	50,000		
1098	Batting cage and overhead mat storage system - allow	1	ls	30,000.00	30,000		
1099	SUBTOTAL					4,537,760	

TOTAL - EQUIPMENT							\$4,537,760
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E20 FURNISHINGS

E2010 FIXED FURNISHINGS

124810	ENTRANCE FLOOR MAT AND FRAMES						
1109	Entry mats & frames	1,205	sf	50.00	60,250		
122100	WINDOW TREATMENT						
1112	Window treatments including premium for motorized and blackout shades	1	ls	300,000.00	300,000		
1113	Interior shades @ classroom, theory & resource room borrowed lites - allowance	1	ls	50,000.00	50,000		
123553	CASEWORK						
1116	<u>Autotech & Auto Collision</u>					None shown	
1117	<u>CAD/CAM</u>					None shown	
1118	<u>Carpentry</u>					None shown	
1119	<u>Electrical Shop</u>					None shown	
1120	<u>Engineering & Robotics</u>					None shown	
1121	<u>Graphics</u>					None shown	
1122	<u>HVAC</u>					None shown	
1123	<u>Metal Fabrication</u>					None shown	
1124	<u>Plumbing</u>					None shown	
1125	Typical classroom, Theory classroom, Resource	52	ea				
1126	Teacher storage cabinet w/ markerboard surface (2# per room)	104	ea	2,200.00	228,800		
1127	Counter					w/ millwork	
1128	Science classrooms	12	ea				
1129	Base cabinet, epoxy counter	960	lf	550.00	528,000		
1130	Wall cabinet	240	lf	250.00	60,000		
1131	Tall storage w/ markerboard surface	24	ea	2,200.00	52,800		
1132	Science Prep	6	ea				
1133	Base cabinet, epoxy counter	162	lf	550.00	89,100		
1134	Wall cabinet	6	lf	250.00	1,500		
1135	Tall storage w/ markerboard surface	6	ea	2,200.00	13,200		
1136	Art classroom (allow per Architect)	1	ea	30,000.00	30,000		
1137	<u>Biotech Press</u>						
1138	Base cabinet, epoxy counter	289	lf	550.00	158,950		
1139	Wall cabinet	211	lf	250.00	52,750		
1140	Student bench	10	ea	3,500.00	35,000		
1141	Work counter	65	lf	300.00	19,500		
1142	Tall storage w/ markerboard surface	18	ea	2,200.00	39,600		
1143	<u>Pre-School classrooms & support spaces</u>	4	ea				
1144	Tall storage w/ markerboard surface	10	lf	750.00	7,500		
1145	Base cabinet, plam counter and wall cabinet in kitchenette	15	lf	650.00	9,750		
1146	Base cabinet, plam counter and wall cabinet in classrooms 15lf)	60	lf	650.00	39,000		
1147	<u>CNT</u>						
1148	Work counter, plam	66	lf	200.00	13,200		
1149	Low storage	27	lf	300.00	8,100		
1150	<u>Community Health</u>						
1151	Tall storage w/ markerboard surface	8	ea	2,200.00	17,600		
1152	Work counter in Nurse & Doctor offices	34	lf	200.00	6,800		
1153	<u>Cosmetology</u>						
1154	Base cabinet, plam counter and wall cabinet	54	lf	650.00	35,100		



100% Schematic Design Estimate

GFA

419,765

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
BUILDING BACKUP								
1155	Work counter, plam	139	lf	200.00	27,800			
1156	Shelving above work counter	154	lf	200.00	30,800			
1157	<u>Dentist</u>							
1158	Work counter, epoxy	97	lf	300.00	29,100			
1159	Base cabinet, epoxy counter and wall cabinet in Labs	16	lf	800.00	12,800			
1160	Tall storage w/ markerboard surface	6	ea	2,200.00	13,200			
1161	<u>DVC Press</u>							
1162	Tall storage w/ markerboard surface	5	ea	2,200.00	11,000			
1163	Base cabinet, plam counter and wall cabinet	37	lf	650.00	24,050			
1164	<u>BAT and Marketing</u>							
1165	Base cabinet, plam counter and wall cabinet	32	lf	650.00	20,800			
1166	<u>Teacher planning/ Workroom</u>	5	ea					
1167	Tall storage w/ markerboard surface	10	ea	2,200.00	22,000			
1168	Counter					w/ millwork		
1169	<u>Office</u>	21	ea					
1170	Tall storage	21	ea	1,800.00	37,800			
1171	Allowance							
1172	OT/PT	1	ea	15,000.00	15,000			
1173	Small group	12	ea	5,000.00	60,000			
1174	Test	5	ea		none shown			
1175	Allowance for casework not yet identified	399,765	sf	1.00	399,765			
1176	SUBTOTAL						2,560,615	
1177								
1178	E2020 MOVABLE FURNISHINGS							
1179	All movable furnishings to be provided and installed by owner							
1180	SUBTOTAL						NIC	
1181								
1182	TOTAL - FURNISHINGS							\$2,560,615
1183								
1184								
1185	F10 SPECIAL CONSTRUCTION							
1186								
1187	F10 SPECIAL CONSTRUCTION							
1188	Lead lined doors and walls in dental x-ray rooms (4 rms)					w/ C10		
1189	SUBTOTAL						-	
1190								
1191	TOTAL - SPECIAL CONSTRUCTION							
1192								
1193								
1194	F20 SELECTIVE BUILDING DEMOLITION							
1195								
1196	F2010 BUILDING ELEMENTS DEMOLITION							
1197	No items in this section							
1198	SUBTOTAL							
1199								
1200	F2020 HAZARDOUS COMPONENTS ABATEMENT							
1201	See main summary for HazMat allowance					See Summary		
1202	SUBTOTAL							
1203								
1204	TOTAL - SELECTIVE BUILDING DEMOLITION							



100% Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITWORK							
G SITEWORK							
G10 SITE PREPARATION & DEMOLITION							
311000	Site construction fence/barricades	10,930	lf	16.00	174,880		
311000	Site construction fence gates	2	loc	5,000.00	10,000		
311000	Stabilized construction entrance	2	ea	10,000.00	20,000		
311000	Remove asphalt pavement	187,560	sf	1.50	281,340		
311000	Remove asphalt pavement; pulverize	31,379	sy	3.00	94,137		
310000	Stockpile for reuse	5,230	cy	2.50	13,075		
311000	Sports field and baseball diamond demolition; lighting, fencing, furniture, bleachers and dugouts	178,900	sf	1.00	178,900		
311000	Tree protection	53	ea	500.00	26,500		
311000	Remove play surfacing	2,345	sf	2.50	5,863		
311000	Remove concrete paving	29,755	sf	1.50	44,633		
311000	Remove curbing	2,760	lf	8.00	22,080		
311000	Remove fencing	3,200	lf	5.00	16,000		
311000	Remove guardrail	2,920	lf	8.00	23,360		
311000	Remove utility line	2,675	lf	25.00	66,875		
311000	Demo small buildings	2	loc	5,000.00	10,000		
311000	Cut & cap utilities	5	ea	5,000.00	25,000		
311000	Remove bleachers	5	ea	500.00	2,500		
311000	Pvmt Patching	260	sf	15.00	3,900		
311000	Sawcut	75	lf	8.25	619		
311000	Remove 30"/42" RCP culvert	600	lf	125.00	75,000		
311000	Allowance for SOE during removal of culvert - assume minimal dewatering required	1	ls	100,000.00	100,000		
311000	Remove utility structure	59	ea	400.00	23,600		
311000	Remove concrete wall	270	lf	70.00	18,900		
311000	Remove sewer pump station	1	loc		w/utilities		
311000	Clear and grub	20	acres	7,500.00	150,000		
	SUBTOTAL						1,387,162
<u>Erosion Control</u>							
312500	Silt fence/erosion control, wash bays, stock piles	11,980	lf	10.00	119,800		
312500	Inlet protection - silt sacks	27	ea	250.00	6,750		
312500	Silt fence maintenance and monitoring	1	ls	25,000.00	25,000		
312500	Dewatering for utility work	1	ls	25,000.00	25,000		
	SUBTOTAL						176,550
<u>Site Earthwork</u>							
310000	Strip topsoil and stockpile; avg. 12" thick based on borings - req. 11,500cy post screening	17,000	cy	12.00	204,000		
310000	Strip topsoil; avg. 12" thick based on borings	21,700	cy	8.00	173,600		
310000	Load excess soils for disposal	21,700	cy	2.50	54,250		
310000	Less than RCS-1 site disposal- 1.65x	35,805	tn	18.00	644,490		
310000	Street sweeping allowance during disposal operations	1	ls	25,000.00	25,000		
310000	Cut	48,400	cy	8.00	387,200		
310000	Stockpile for reuse; incl. 1,900cy for building fill	31,300	cy	3.50	109,550		
310000	Fill- from cut	29,400	cy	10.00	294,000		
<u>Soil disposal</u>							
310000	Load exported materials	17,100	cy	2.50	42,750		
310000	<RCS-1; 1.65x	9,875	tn	18.00	177,750		
310000	Mass In-state unlined landfill; 1.65x	9,875	tn	50.00	493,750		
310000	Mass In-state lined landfill; 1.65x	4,232	tn	60.00	253,920		
310000	Mass Asphalt Batching Facility; 1.65x	2,822	tn	75.00	211,650		
310000	Out-of-state non-hazardous	1,411	tn	120.00	169,320		
310000	VE item; Reduce CY export of surplus soil by 25%. Elevate fields and parking	1	ls	(325,000.00)	(325,000)		
310000	Street sweeping allowance during disposal operations	1	ls	35,000.00	35,000		
310000	Fine grading	112,221	sy	2.25	252,497		
<u>Hazardous Waste Remediation</u>							



100% Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITWORK							
59	310000						assume not required
60	310000						assume not required
61	310000	1	ls	100,000.00	100,000		
62							
63							
64	G20 SITE IMPROVEMENTS	1,033,145	total sf hard surfaces				
65	<u>Roadways and Parking Lots</u>	469,290	sf				
66	<u>Asphalt paving; existing parking lot</u>	187,920	sf				
67	310000	6,960	cy	40.00		NR	
68	320000	1,797	tns	130.00	233,610		
69	320000	3,593	tns	120.00	431,160		
70	310000	20,880	sy	3.00	incl. above		
71	310000	3,480	cy	2.50	incl. above		
72	<u>Asphalt paving; existing roadways</u>	94,490	sf				
73	310000	5,249	cy	40.00		NR	
74	320000	903	tns	130.00	117,390		
75	320000	1,807	tns	120.00	216,840		
76	310000	10,499	sy	3.00	incl. above		
77	310000	1,750	cy	2.50	incl. above		
78	<u>Asphalt paving; new parking lots</u>	84,730	sf				
79	310000	3,138	cy	40.00	125,520		
80	320000	810	tns	130.00	105,300		
81	320000	1,620	tns	120.00	194,400		
82	<u>Asphalt paving; new roadways</u>	102,150	sf				
83	310000	5,675	cy	40.00	227,000		
84	320000	977	tns	130.00	127,010		
85	320000	1,953	tns	120.00	234,360		
86	<u>Vehicular concrete at work yards - no detail</u>	38,855	sf				
87	310000	964	cy	40.00	38,560		
88	321314	38,855	sf	14.00	543,970		
89	320000	38,855	sf	2.00	NR		
90	320000	20,655	lf	38.00	784,890		
91	320000	65	lf	35.00	2,275		
92	320000						deleted
93	320000	708	lf	85.00	60,180		
94	320000	20	spc	200.00	4,000		
95	320000	15	ea	2,500.00	37,500		
96	320000	1	ls	20,000.00	20,000		
97	320000	14	loc	500.00	7,000		
98	320000	1	ls	20,000.00	20,000		
99	320000	1	ls	25,000.00	25,000		
100							
101							
102	<u>Pedestrian Paving</u>						
103	<u>Concrete sidewalks - no detail</u>	60,570	sf				
104	310000	1,122	cy	40.00	44,880		
105	321314	60,570	sf	11.00	666,270		
106	321314	16,240	sf	2.00	32,480		
107	321314	1,500	sf	25.00	37,500		
108	320000	65	lf	225.00	14,625		
109	050001	45	lf	375.00	16,875		
110	050001	40	lf	375.00	15,000		
111		4,350	sf				
112	310000	81	cy	40.00	3,240		
113	320000	66	tns	250.00	16,500		
114	320000	2,150	lf	18.00	38,700		
115	129300	1	ls	70,000.00	70,000		
116		4,470	sf				
117	310000	111	cy	40.00	4,440		
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100% Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITework							
118 320000	setting base; 1" thick	13	cy	31.00	403		
119 320000	concrete base; 4" thick	4,470	sf	14.00	62,580		
120 320000	Precast pavers	4,470	sf	25.00	111,750		
121	SUBTOTAL					1,135,243	
122							
123	<u>Site Improvements</u>						
124 323114	4' ht. CLF at playgrounds	310	lf	55.00	17,050		
125 323114	4' ht. CLF - single swing gate at playgrounds	2	ea	750.00	1,500		
126 323114	8' Ht. CLF at work yards	1,365	lf	90.00	122,850		
127 323114	12' long double sliding door at work yards	7	ea	8,000.00	56,000		
128 323114	8' ht. CLF - single swing gate at work yards	7	ea	2,500.00	17,500		
129 323114	14' Ht. Gate at courtyard	1	ea	25,000.00	25,000		
130	<u>Site modular block retaining walls</u>						
131 323300	Retaining walls - 3'						deleted
132 323300	Retaining walls - 3'-6"						deleted
133 323300	Retaining walls - 4'	175	lf	250.00	43,750		
134 323300	Retaining walls - 5'						deleted
135 129300	Flagpole - 40' ht.	1	ea	15,000.00	15,000		
136 129300	Bike racks	14	ea	1,000.00	14,000		
137 129300	Table and chairs - round	8	ea				assume F,F,E
138 129300	Table and chairs - square	42	ea				assume F,F,E
139 129300	Wood benches - 6' length	9	ea	2,800.00	25,200		
140 310000	Boulders - outdoor classrooms	35	ea	500.00	17,500		
141 321313	Precast concrete seat walls - freestanding	290	lf	300.00	87,000		
142 062000	Wood seat top for seat walls	290	lf	350.00	101,500		
143 129300	Trash receptacles	1	ls	10,000.00	10,000		
144 321724	Entry sign - allowance (assume 1 electronic)	1	ls	75,000.00	75,000		
145 129300	Drinking fountains - no quantity provided	1	ls	10,000.00	10,000		
146	<u>Work yard site elements</u>						
147 129300	Moveable table and chairs	1	ls	20,000.00	20,000		
148 321313	Seat walls	1	ls	50,000.00	50,000		
149 129300	Trash receptacles	1	ls	10,000.00	10,000		
150	<u>Play areas</u>	5,340	sf				
151 321816	Poured-in-place resilient playground surfacing	5,340	sf	26.00	138,840		
152 321816	Gravel base; assume 8' thick	133	cy	40.00	5,320		
153 321816	Edging around pour-in-place surfacing	275	lf	40.00	11,000		
154 321816	Allowance for underdrains (not shown on drainage plans)	1	ls	25,000.00	25,000		
155 116800	Allowance for play equipment - Ages 0-24 months	1	ls	150,000.00	150,000		
156 116800	Allowance for play equipment - Ages 3-5	1	ls				incl. above
157	<u>Roof deck</u>						
158 129300	Table and chairs - round	14	ea				assume F,F,E
159 129300	Table and chairs - square	24	ea				assume F,F,E
160 129300	Metal retaining wall planter - 2'-3' ht.	250	lf	150.00	37,500		
161 129300	Metal planters on top of pavers	6	ea	10,000.00	60,000		
162 329900	Planting beds for vegetables	155	sf	50.00	7,750		
163 329900	Green roof						w/ building
164 329900	Ornamental Tree	6	ea	1,200.00	7,200		
165	<u>Precast pavers on pedestals @ roof</u>	4,100	sf				
166 320000	Concrete pavers on pedestals						w/ building
167	<u>Synthetic track</u>						
168	<u>Asphalt Paving; track oval</u>	30,700	sf				
169 310000	gravel base; 12" thick	1,137	cy	40.00	45,480		
170 310000	dense grade base; 6" thick	569	cy	45.00	25,605		
171 320000	asphalt top; 1.5" thick	288	tns	150.00	43,200		
172 320000	asphalt binder; 1.5" thick	288	tns	130.00	37,440		
173	<u>Asphalt Paving; high jump area only to match existing</u>	4,000	sf				
174 310000	gravel base; 12" thick	148	cy	40.00	5,920		
175 310000	dense grade base; 6" thick	74	cy	45.00	3,330		
176 320000	asphalt top; 1.5" thick	38	tns	150.00	5,700		
177 320000	asphalt binder; 1.5" thick	38	tns	130.00	4,940		
178	<u>Asphalt Paving; Long jump/triple jump runways (2 total)</u>	1,050	sf				



100% Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITework							
179	310000	gravel base; 12" thick	39	cy	40.00	1,560	
180	310000	dense grade base; 6" thick	19	cy	45.00	855	
181	320000	asphalt top; 1.5" thick	10	tns	150.00	1,500	
182	320000	asphalt binder; 1.5" thick	10	tns	130.00	1,300	
183		<u>Asphalt Paving: Pole vault runway</u>	850	sf			
184	310000	gravel base; 12" thick	31	cy	40.00	1,240	
185	310000	dense grade base; 6" thick	16	cy	45.00	720	
186	320000	asphalt top; 1.5" thick	8	tns	150.00	1,200	
187	320000	asphalt binder; 1.5" thick	8	tns	130.00	1,040	
188		<u>Asphalt Paving: Javelin runway</u>	850	sf			
189	310000	gravel base; 12" thick	31	cy	40.00	1,240	
190	310000	dense grade base; 6" thick	16	cy	45.00	720	
191	320000	asphalt top; 1.5" thick	8	tns	150.00	1,200	
192	320000	asphalt binder; 1.5" thick	8	tns	130.00	1,040	
193		<u>Permeable track surface - Latex</u>	37,450	sf			
194	321816	Complete latex track surface (not premium colors)	4,161	sy	39.00	162,279	
195		<u>Artificial turf field</u>	91,830	sf			
196	322110	2" Synthetic turf system with Brockfill - 1lb of brockfill and 4lbs of sand per sf	91,830	sf	4.95	454,559	
197	322110	Resilient underlayment (Brock SP14)	91,830	sf	1.60	146,928	
198	322110	Painted field lines - allowance	1	loc	10,000.00	10,000	
199	322110	Field top stone; 2" thick	898	tn	55.00	49,390	
200	322110	Field base stone; 8" thick	3,704	tn	50.00	185,200	
201	322110	Geotextile underlayment below base stone	10,203	sy	3.00	30,609	
202	322110	12" Turf anchor curbing in d-areas	450	lf	65.00	29,250	
203	129300	Scoreboard	1	ls	60,000.00	60,000	
204	129300	Bleachers (stadium seating)	1,300	seats	340.00	442,000	
205	129300	Bleacher concrete pad	3,860	sf	25.00	96,500	
206	129300	Press box				Separate estimate	
207	129300	Soccer goal(s)	2	ea	4,500.00	9,000	
208	129300	Players benches	6	ea	4,000.00	24,000	
209	323114	20' ht sports safety netting; end zones only	360	lf	190.00	68,400	
210	323114	4' perimeter field fencing	1,590	lf	55.00	87,450	
211		<u>Events</u>					
212	129300	Long jump/Triple jump pits_ with catchers and painted takeoff boards	2	ea	20,000.00	40,000	
213	129300	Pole vault event incl. concrete pad for landing pad	1	ea	5,000.00	5,000	
214	129300	Football goalposts	2	ea	15,000.00	30,000	
215	129300	Discus pad with enclosure	1	ea	15,000.00	15,000	
216	129300	Shot put pad and toe board; landing area assumed field	1	ea	7,500.00	7,500	
217	323114	Sports netting 20' Ht. - all fields	1,260	lf	190.00	239,400	
218		<u>Natural Grass Field - Soccer Field (S4)</u>	55,360	sf			
219	329900	Amended existing topsoil; 8" thick	1,374	cy	65.00	incl. below	
220	329900	Sand gravel fill; 6" thick	1,025	cy	36.00	36,900	
221	329900	Fine grade	55,360	sf	0.12	6,643	
222	329900	Field area sod	55,360	sf	1.25	incl. below	
223	129300	Soccer goal(s)	2	ea	4,500.00	9,000	
224	129300	Players benches	2	ea	4,000.00	8,000	
225	129300	Scoreboard	1	ls	35,000.00	35,000	
226		<u>Natural Grass Fields - Softball (S-1)</u>	71,990	sf			
227	329900	Amended existing topsoil; 8" thick	1,786	cy	65.00	incl. below	
228	329900	Sand gravel fill; 6" thick	1,333	cy	36.00	47,988	
229	329900	Fine grade	71,990	sf	0.12	8,639	
230	329900	Field area sod	71,990	sf	1.25	incl. below	
231	323114	Softball side fencing - 4' ht.	720	lf	55.00	39,600	
232	323114	Softball dugout gates - allow	4	ea	1,000.00	4,000	
233	129300	Softball dugout enclosed	4	ea	30,000.00	120,000	
234	129300	Softball backstop	2	ea	35,000.00	70,000	
235	129300	Batting cages w/netting	2	ea	35,000.00	70,000	
236	129300	Players benches	4	ea	4,000.00	16,000	
237	129300	Pitchers mound - softball	2	ea	3,500.00	7,000	



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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITWORK							
238	129300	Batters box - softball	2	ea	3,500.00	7,000	
239	129300	Home plate - softball	2	ea	500.00	1,000	
240	129300	Base plates - softball	2	set	1,200.00	2,400	
241	129300	Foul poles - softball	2	ea	3,600.00	7,200	
242	129300	Field painting allowance	2	ls	10,000.00	20,000	
243	129300	Scoreboard	2	ea	18,000.00	36,000	
244		<u>Infield mix</u>	7,750	sf			
245	310000	Infield mix at softball	156	tn	150.00	23,400	
246	310000	Sand gravel fill; 8" thick	189	cy	36.00	6,804	
247		<u>Natural Grass Fields - Baseball (S-2)</u>	132,140	sf			
248	310000	Amended existing topsoil; 8" thick	3,279	cy	65.00	incl. below	
249	310000	Sand gravel fill; 6" thick	2,447	cy	36.00	88,092	
250	310000	Fine grade	132,140	sf	0.12	15,857	
251	329900	Field area sod	132,140	sf	1.25	incl. below	
252	323114	Baseball fencing	1,285	lf	70.00	89,950	
253	129300	Baseball dugout enclosed	2	ea	40,000.00	80,000	
254	129300	Baseball dugout gates - allow	2	ea	1,000.00	2,000	
255	129300	Baseball backstop	1	ea	50,000.00	50,000	
256	129300	Batting cages w/netting	1	ea	35,000.00	35,000	
257	129300	Players benches	2	ea	4,000.00	8,000	
258	129300	Pitchers mound - baseball	1	ea	2,500.00	2,500	
259	129300	Foul poles - baseball	2	ea	3,600.00	7,200	
260	129300	Field painting allowance	1	ls	10,000.00	10,000	
261	129300	Scoreboard	1	ea	25,000.00	25,000	
262		<u>Infield mix</u>	10,700	sf			
263	310000	Infield mix at baseball	216	tn	150.00	32,400	
264	310000	Sand gravel fill; 8" thick	262	cy	36.00	9,432	
265		<u>Existing to remain baseball field</u>					
266	129300	Backstop and dugouts	1	ls	75,000.00	NR	
267	310000	Infield reconstruction	1	ls	40,000.00	40,000	
268	329800	Irrigation at existing baseball field	88,430	sf	1.00	NR	
269		SUBTOTAL					4,617,160
270		<u>Irrigation</u>					
271		<u>Irrigation</u>					
272	329800	Water cisterns for irrigation/grey water reuse; incl. allowance for pump station, filtering and treatment	120,000	gal	3.50	420,000	
273	329800	Irrigation at natural grass fields (Softball)	71,990	sf	1.25	89,988	
274	329800	Irrigation at natural grass fields (Soccer)	55,360	sf	1.25	69,200	
275	329800	Irrigation at natural grass fields (Baseball)	132,140	sf	1.25	165,175	
276	329800	Irrigation at planted areas	12,470	sf	2.25	28,058	
277		SUBTOTAL					772,421
278							
279		<u>Landscaping</u>					
280	329900	Screen topsoil	17,000	cy	5.00	85,000	
281	329900	Export tailings from screening process - assume clean rock	5,100	cy	8.50	43,350	
282	329900	Amend/Place for new seeded area & fields	11,900	cy	20.00	238,000	
283	329900	Lawn seed	280,000	sf	0.35	98,000	
284	329900	Field area sod	259,490	sf	1.25	324,363	
285	329900	Deciduous trees	109	ea	1,200.00	130,800	
286	329900	Evergreen trees	44	ea	900.00	39,600	
287	329900	Ornamental trees	41	ea	1,200.00	49,200	
288	329900	Planting beds - 70% shrubs, 30% perennials	12,470	sf	8.00	99,760	
289	329900	Landscape curbing	100	lf	90.00	9,000	
290		SUBTOTAL					1,117,073
291							
292	G30	CIVIL MECHANICAL UTILITIES					
293		<u>Water supply; Pricing includes E&B and bedding</u>					
294	331000	New DI piping; 4" Domestic water	120	lf	85.00	10,200	
295	331000	New DI piping; 6" Fire	120	lf	95.00	11,400	
296	331000	New DI piping; 8" Fire loop	7,405	lf	105.00	777,525	
297	331000	Gate valves	20	ea	1,450.00	29,000	



100% Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITework							
298 331000	Thrust blocks	34	ea	800.00	27,200		
299 331000	Connect to existing	2	loc	12,000.00	24,000		
300 331000	FD connection	1	ea	2,000.00	2,000		
301 331000	Fire hydrant	12	ea	5,000.00	60,000		
302 331000	Water line to track and field allowance	1	ls	20,000.00	20,000		
303	SUBTOTAL					961,325	
304	<u>Sewer: Pricing includes E&B and bedding</u>						
305							
306 333000	Sewer force main - 3"	1,155	lf	55.00	63,525		
307 333000	Sewer line to building - assume 6" PVC	50	lf	65.00	3,250		
308 333000	Manholes	6	ea	4,300.00	25,800		
309 333000	Acid neutralization tank	1	ea		w/ plumbing		
310 333000	Oil/Water separator	1	ea	10,000.00	NR		
311 333000	Grease trap - 5,000 gal.	1	ea		w/ plumbing		
312 333000	Replace existing sewer pump station and install new	1	loc	150,000.00	150,000		
313 333000	New sewer pump station - smaller capacity at building	1	loc	100,000.00	100,000		
314	SUBTOTAL					342,575	
315							
316	<u>Storm Water</u>						
317 334000	WQU	6	ea	11,500.00	69,000		
318 334000	Catch basins	51	ea	4,000.00	204,000		
319 334000	Double catch basin	1	ea	4,500.00	4,500		
320 334000	Manholes	52	ea	4,300.00	223,600		
321 334000	Manholes; 6' diameter	1	ea	6,000.00	6,000		
322 334000	Area drain	3	ea	2,500.00	7,500		
323 334000	OCS	4	ea	6,500.00	26,000		
324 334000	FES	3	ea	1,500.00	4,500		
325 334000	ACO 4000 sport drains; straights and d-areas	1,312	lf	190.00	249,280		
326 334000	Flat drains 12" - synthetic	7,735	lf	8.00	61,880		
327 334000	Collector piping	575	lf	65.00	37,375		
328 334000	Flat drains 12" - Baseball	7,745	lf	8.00	61,960		
329 334000	Collector piping	135	lf	65.00	8,775		
330 334000	Flat drains 12" - Softball	4,440	lf	8.00	35,520		
331 334000	Collector piping	135	lf	65.00	incl. above		
332 334000	Flat drains 12" - Soccer	2,610	lf	8.00	20,880		
333 334000	Collector piping	300	lf	65.00	19,500		
334 334000	Drain lines - size not specified assume 12" HDPE	8,875	lf	70.00	621,250		
335 334000	Roof drain piping - 12" HDPE	140	lf	70.00	9,800		
336 334000	Roof drain connection	3	ea	500.00	1,500		
337 334000	Foundation drain	3,640	lf	22.00	NR		
338 334000	Trench drain	90	lf	180.00	16,200		
339 334000	Camera line	1	ls	5,000.00	5,000		
340 334000	Infiltration system - 1,2,3,4	38,235	sf	34.00	1,299,990		
341 334000	<u>Culvert realignment</u>	487	lf				
342 334000	Relocate culvert in middle of site - 42" RCP pipe	487	lf	150.00	73,050		
343 334000	Manholes - 6' Dia.	2	ea	6,000.00	12,000		
344 334000	Manholes; doghouse	2	ea	10,000.00	20,000		
345 334000	Concrete headwall reconstruction	2	ls	12,000.00	24,000		
346	SUBTOTAL					3,123,060	
347							
348 3100000	<u>Gas service</u>						
349 310000	E&B trench for new gas pipe	1,900	lf	40.00	76,000		
350	SUBTOTAL					76,000	
351							
352	G40 ELECTRICAL UTILITIES						
							<i>Electrical Utilities per updated GGD plan received July 21, 2021</i>
353	<u>Civil:</u>						
354	Concrete:						
355 033000	Primary duct bank	950	lf	15.00	14,250		
356 033000	Secondary duct bank	290	lf	20.00	5,800		
357 033000	Generator duct bank	140	lf	20.00	2,800		
358 033000	Communications duct bank	585	lf	20.00	11,700		
359 033000	Transformer pad	2	ea	2,000.00	4,000		



100% Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITework							
360 033000	Generator pad	1	ea	3,000.00	3,000		
361 033000	EV station base	22	ea	200.00	4,400		
362 033000	Pole base	89	ea	200.00	17,800		
363 310000	Excavation and Backfill:						
364 310000	Primary duct bank	950	lf	20.00	19,000		
365 310000	Secondary duct bank	290	lf	25.00	7,250		
366 310000	Generator duct bank	465	lf	25.00	11,625		
367 310000	Communications duct bank	950	lf	20.00	19,000		
368 260000	Site lighting	9,500	lf	15.00	142,500		
369	<u>Site Demolition</u>						
370 310000	Temp electrical service	1	ls	50,000.00	50,000		
371 310000	Site demolition and make safe	1	ls	25,000.00	25,000		
372							
373	<u>Power</u>						
374 260000	Utility co. back charges, allow	1	ls	50,000.00		By Owner	
375 260000	Pole riser	2	ls	1,200.00	2,400		
376 260000	Manhole	4	ea	8,500.00	34,000		
377 260000	Primary duct bank 2-5" conduits	965	lf	80.00	77,200		
378 260000	Primary duct bank 2-4" conduits	900	lf	50.00	45,000		
379 260000	Transformer by utility company	2	ea			By Others	
380 260000	Pad mount transformer grounding	2	ea	1,000.00	2,000		
381 260000	3500A secondary duct bank, allow (Total 2-runs)	290	lf	1,400.00	406,000		
382 260000	Generator duct bank (600A)	465	lf	265.00	123,225		
383 260000	Generator duct bank (200A)	140	lf	68.00	9,520		
384 260000	EV Dual charging stations (Including circuitry)	22	loc	8,500.00	187,000		
385 260000	Electrical to signage	1	ls	20,000.00	20,000		
386 260000	Electrical to scoreboards	1	ls	30,000.00	30,000		
387 260000	<u>Fire pump</u>						
388 260000	Fire pump ductbank 2-4' conduits	150	lf	50.00	7,500		
389 260000	Fire alarm ductbank 1-2" conduit	150	lf	10.00	1,500		
390 260000	<u>Communications</u>						
391 260000	Pole riser	1	ls	1,200.00	1,200		
392 260000	Manhole	3	ea	8,500.00	25,500		
393 260000	Telcom duct bank, 4-4" conduits	1,620	lf	100.00	162,000		
394 260000	<u>Site Lighting</u>						
395 260000	Pole light (Double)	11	ea	2,650.00	29,150		
396 260000	Pole light (Single)	72	ea	2,000.00	144,000		
397 260000	Pedestrian light	6	ea	1,600.00	9,600		
398 260000	Pole grounding	89	ea	150.00	13,350		
399 260000	Circuitry	12,500	lf	17.00	212,500		
400 260000	Football field lighting	1	ls	500,000.00	500,000		
401 260000	<u>Site Security</u>						
402 260000	Site security allow for (5) cameras (per GGD)	1	ls	25,000.00	25,000		
403	SUBTOTAL					2,405,770	
404							
405							
TOTAL - SITE DEVELOPMENT							\$22,974,031



100% Schematic Design Estimate

GFA 6,710

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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ATHLETIC BULDINGS; PRESS BOX, CONCESSIONS & TEAM ROOMS

GROSS FLOOR AREA CALCULATION

Press Box (2 story)	1,173
Concessions	1,612
Team Rooms	3,925

TOTAL GROSS FLOOR AREA (GFA)	6,710 sf
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A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

Strip Footing

Formwork	1,184	sf	15.00	17,760
Re-bar	5,920	lbs.	2.00	11,840
Concrete material	52	cy	140.00	7,280
Placing concrete	52	cy	120.00	6,240

Foundation wall; 8" thick

Formwork	4,736	sf	20.00	94,720
Re-bar	11,840	lbs.	2.00	23,680
Concrete material	64	cy	140.00	8,960
Placing concrete	64	cy	120.00	7,680

070001 WATERPROOFING, DAMPPROOFING AND CAULKING

Damp proofing foundation wall and footing	2,368	sf	3.00	NIC
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072100 THERMAL INSULATION

Insulation	2,368	sf	3.00	7,104
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312000 EARTHWORK

Continuous footings

Excavation	676	cy	16.00	10,816
Remove off site	676	cy	14.00	9,464
Backfill with imported material	560	cy	40.00	22,400

SUBTOTAL

227,944

A1020 SPECIAL FOUNDATIONS

Ground improvements; Rammed Aggregate Piers	6,124	sf	14.00	85,736
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SUBTOTAL

85,736

A1030 LOWEST FLOOR CONSTRUCTION

New Slab on grade, 6" thick

Vapor barrier	6,124	sf	1.25	7,655
Rebar; #4 e.w.	1,819	lbs	2.00	3,638
Concrete - 6" thick; 4,000 psi	119	cy	148.00	17,612
Placing concrete	119	cy	65.00	7,735
Finishing and curing concrete	6,124	sf	3.00	18,372
Control joints - saw cut	6,124	sf	0.10	612

072100 THERMAL INSULATION

2" Rigid insulation at slab perimeter, 2'	1,184	sf	2.25	2,664
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312000 EARTHWORK

Compact existing sub-grade	6,124	sf	0.50	3,062
Gravel fill, 9"	113	cy	40.00	4,520

SUBTOTAL

65,870

TOTAL - FOUNDATIONS	\$379,550
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100% Schematic Design Estimate

GFA

6,710

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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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 \$0

B10 SUPERSTRUCTURE

B1010 FLOOR CONSTRUCTION
Floor framing at press box
SUBTOTAL

B1020 ROOF CONSTRUCTION
Roof framing
SUBTOTAL

TOTAL - SUPERSTRUCTURE \$204,235

B20 EXTERIOR CLOSURE

B2010 EXTERIOR WALLS
Exterior Wall Area; Solid

042000 MASONRY

CMU backup, 8" **8,291** sf 26.00 215,566
Glazed CMU, 4" **8,291** sf 30.00 248,730
Scaffolding **8,291** sf in rates

055000 MISC. METALS

Miscellaneous metals to exterior masonry; lintels, angles etc. **16,582** sf 2.00 33,164
Guardrail, painted galvanized steel pickets, 42" high at press box roof **108** lf 300.00 32,400

070001 WATERPROOFING, DAMPPROOFING AND CAULKING

Air barrier **8,291** sf 7.50 62,183
Air barrier/flashing at windows **156** lf 6.25 975
Miscellaneous sealants to closure **8,291** sf 1.00 8,291

072100 THERMAL INSULATION

Insulation **8,291** sf 2.50 20,728
Insulation at windows openings **156** lf 8.00 1,248

101400 SIGNAGE

Allowance for signage **1** ls 20,000.00 20,000
SUBTOTAL

643,285

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100% Schematic Design Estimate

GFA 6,710

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
111	B2020 WINDOWS							
112	Exterior Wall Area; Glazed	240	sf					
113								
114	061000 ROUGH CARPENTRY							
115	Wood blocking at openings	156	lf	14.00	2,184			
116								
117	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
118	Backer rod & double sealant	156	lf	9.00	1,404			
119								
120	080001 METAL WINDOWS + CURTAINWALL							
121	Aluminum windows, double glazed	240	sf	90.00	21,600			
122	SUBTOTAL					25,188		
123								
124	B2030 EXTERIOR DOORS							
125								
126	061000 ROUGH CARPENTRY							
127	Wood blocking at openings	213	lf	11.00	2,343			
128								
129	079200 JOINT SEALANTS							
130	Backer rod & double sealant	213	lf	9.00	1,917			
131								
132	081110 HOLLOW METAL							
133	Door, frame and hardware							
134	Single	9	ea	2,500.00	22,500			
135								
136	083513 OVERHEAD DOORS							
137	Overhead doors/ shutters	640	sf	85.00	54,400			
138								
139	090007 PAINTING							
140	Finish doors and frames	9	ea	200.00	1,800			
141	SUBTOTAL					82,960		
142								
143	TOTAL - EXTERIOR CLOSURE						\$751,433	
144								
145								
146	B30 ROOFING							
147								
148	B3010 ROOF COVERINGS							
149								
150	055000 MISCELLANEOUS METALS							
151	Ships ladder to roof, caged	1	ea	3,500.00	3,500			
152								
153	061000 ROUGH CARPENTRY							
154	Wood blocking at roof edge	592	lf	20.00	11,840			
155								
156	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
157	AVB at roof perimeter	592	lf	8.00	4,736			
158								
159	070002 ROOFING AND FLASHING							
160	Membrane roof system	6,123	sf	18.50	113,276			
161	Roof pavers at press box	587	sf	30.00	17,610			
162	Roof edge	592	lf	30.00	17,760			
163	Roof hatch at press box	1	ea	3,500.00	3,500			
164	SUBTOTAL					172,222		
165								
166	B3020 ROOF OPENINGS							
167	Unit skylights, 4'x4'	9	ea	2,500.00	22,500			
168	SUBTOTAL					22,500		
169								
170	TOTAL - ROOFING						\$194,722	



100% Schematic Design Estimate

GFA 6,710

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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C10 INTERIOR CONSTRUCTION

C1010 PARTITIONS

042000	MASONRY						
	Interior CMU	5,040	sf	26.00	131,040		
092900	GYPSUM BOARD ASSEMBLIES						
	Interior partitions	500	sf	18.00	9,000		
	SUBTOTAL					140,040	

C1020 INTERIOR DOORS

061000	ROUGH CARPENTRY						
	Wood blocking at openings	180	lf	4.00	720		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Backer rod & double sealant	180	lf	2.50	450		
081110	HOLLOW METAL DOOR FRAMES						
	Door, frame and hardware						
	Single	9	ea	2,000.00	18,000		
090007	PAINTING						
	Finish doors and frames	9	ea	200.00	1,800		
	SUBTOTAL					20,970	

C1030 SPECIALTIES / MILLWORK

102110	TOILET COMPARTMENTS						
	ADA	5	ea	1,800.00	9,000		
	Standard	14	ea	1,600.00	22,400		
	Urinal screen	2	ea	600.00	1,200		
102800	TOILET ACCESSORIES						
	Allowance for toilet accessories	1	ls	25,000.00	25,000		
104400	FIRE PROTECTION SPECIALTIES						
	Fire extinguisher cabinets	1	ls	2,000.00	2,000		
105000	LOCKERS						
	Team room; Single tier athletic ventilated lockers; 18"x18"x72"	55	opes	350.00	19,250		
	Locker room benches	48	lf	30.00	1,440		
	Chain-link fence in Team room building	30	lf	55.00	1,650		
	SUBTOTAL					81,940	

TOTAL - INTERIOR CONSTRUCTION						\$242,950
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C20 STAIRCASES

C2010 STAIR CONSTRUCTION

No work in this section

SUBTOTAL

C2020 STAIR FINISHES



100% Schematic Design Estimate

GFA 6,710

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	No work in this section						
	SUBTOTAL					-	
TOTAL - STAIRCASES							\$0
C30 INTERIOR FINISHES							
C3010 WALL FINISHES							
090007	PAINTING						
	Paint to walls	18,871	sf	1.25	23,589		
	SUBTOTAL					23,589	
C3020 FLOOR FINISHES							
033000	CONCRETE						
	Sealed concrete	5,513	sf	2.50	13,783		
090005	RESILIENT FLOORS						
	Resilient flooring	526	sf	6.00	3,156		
	Resilient base	1,200	lf	2.50	3,000		
	SUBTOTAL					19,939	
C3030 CEILING FINISHES							
092900	GYPSUM BOARD ASSEMBLIES						
	GWB ceiling - allow	2,026	sf	15.00	30,390		
090007	PAINTING						
	Paint to exposed ceilings	4,013	sf	2.50	10,033		
	Paint to GWB	2,026	sf	1.50	3,039		
	SUBTOTAL					43,462	
TOTAL - INTERIOR FINISHES							\$86,990
D10 CONVEYING SYSTEMS							
D1010 ELEVATOR							
	No work in this section						
	SUBTOTAL					-	
TOTAL - CONVEYING SYSTEMS							\$0
D20 PLUMBING							
D20 PLUMBING, GENERALLY							
	Plumbing allowance	6,710	gsf	20.00	134,200		
	SUBTOTAL					134,200	
TOTAL - PLUMBING							\$134,200
D30 HVAC							
D30 HVAC, GENERALLY							
	HVAC, allowance; electric unit heaters	6,710	gsf	10.00	67,100		
	SUBTOTAL					67,100	
TOTAL - HVAC							\$67,100

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100% Schematic Design Estimate

GFA 6,710

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
D40 FIRE PROTECTION							
	D40 FIRE PROTECTION, GENERALLY						
	No work in this section						
	SUBTOTAL					-	
TOTAL - FIRE PROTECTION							\$0
D50 ELECTRICAL							
	Electrical work; allowance	6,710	sf	35.00	234,850		
	SUBTOTAL					234,850	
TOTAL - ELECTRICAL							\$234,850
E10 EQUIPMENT							
	E10 EQUIPMENT, GENERALLY						
116600	EQUIPMENT						
	Ice machine	1	ea	1,000.00	1,000		
	SUBTOTAL					1,000	
TOTAL - EQUIPMENT							\$1,000
E20 FURNISHINGS							
	E2010 FIXED FURNISHINGS						
	Counter in Press box	11	lf	150.00	1,650		
	Casework in trainer room	10	lf	500.00	5,000		
	Miscellaneous casework in Concessions	1	ls	15,000.00	15,000		
	SUBTOTAL					21,650	
	E2020 MOVABLE FURNISHINGS						
	All movable furnishings to be provided and installed by owner						
	SUBTOTAL					NIC	
TOTAL - FURNISHINGS							\$21,650
F10 SPECIAL CONSTRUCTION							
	F10 SPECIAL CONSTRUCTION						
	No work in this section						
	SUBTOTAL					\$0	
TOTAL - SPECIAL CONSTRUCTION							\$0
F20 SELECTIVE BUILDING DEMOLITION							
	F2010 BUILDING ELEMENTS DEMOLITION						
	See main summary for demolition of existing buildings						
	SUBTOTAL					\$0	
	F2020 HAZARDOUS COMPONENTS ABATEMENT						
	See main summary for HazMat allowance				See Summary		
	SUBTOTAL					\$0	
TOTAL - SELECTIVE BUILDING DEMOLITION							\$0
SUBTOTAL						\$ 2,318,680	