

**100% Construction Documents**  
**East Bridgewater Junior/Senior High School**  
**East Bridgewater, MA**

14-Jul-11

**GRAND SUMMARY**

<b>Building Cost</b>				<b>\$47,918,797</b>
<b>Site work</b>				<b>\$8,831,166</b>
<b>Remove Existing HS</b>	164,000	GSF	\$3.50	<b>\$574,000</b>
<b>Hazardous Waste Removal</b>				<b>\$520,000</b>
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	<b>TOTAL DIRECT COST</b>			<b>57,843,963</b>
GENERAL CONDITIONS FEE	30	MOS	\$60,000	\$1,800,000
INSURANCE		1.5%		\$894,659
P&P BOND (all trades)		0.50%		\$302,693
CONTINGENCY		0.9%		\$547,572
ESCALATION (fall 2011)		0%		\$0
BUILDING PERMITS		0%		\$40,000
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	<b>TOTAL CONSTRUCTION COST</b>			<b>\$61,428,887</b>
				\$287.66
ALTERNATE NO. 1 - WASTEWATER TREATMENT FACILITY				\$3,295,729
ALTERNATE NO. 2 - BLEACHERS AND PRESS BOX				\$719,143
ALTERNATE NO. 3 - POLYURETHANE TRACK SURFACING				\$652,566
ALTERNATE NO. 4 - SYNTHETIC TURF AND BASE CONSTRUCTION OF SYNTHETIC TURF				\$832,142
ALTERNATE NO. 5 - HALFTIME FACILITY - CONCESSION AND RESTROOM				\$621,541
ALTERNATE NO. 6 - IRRIGATION AT ATHLETIC FIELDS				\$209,125
ALTERNATE NO. 7 - VEGETATED ROOF COVERING AND ROOF DECK PAVERS				\$70,954

# COST ESTIMATE COMPARISON SPREADSHEET (UNIFORM)

East Bridgewater Junior/Senior High School							
Estimated Construction Start Date:		XXXX			XXXX		
Division #	Description	60% CD			100% CD		
		GSF	Total Cost	Unit Cost	GSF	Total Cost	Unit Cost
A	Substructure	#####	\$2,848,221	\$13.34	213,544	\$2,831,944	\$13.26
B	Shell	#####	\$14,276,976	\$66.86	213,544	\$13,947,722	\$65.32
B10	Superstructure	#####	\$4,899,106	\$22.94	213,544	\$4,776,942	\$22.37
B20	Exterior Enclosure	#####	\$7,020,885	\$32.88	213,544	\$6,890,668	\$32.27
	B2010 Exterior Walls	#####	\$5,613,939	\$26.29	213,544	\$5,484,302	\$25.68
	B2020 Exterior Windows	#####	\$1,132,879	\$5.31	213,544	\$1,130,319	\$5.29
	B2030 Exterior Doors	#####	\$274,067	\$1.28	213,544	\$276,047	\$1.29
B30	Roofing	#####	\$2,356,984	\$11.04	213,544	\$2,280,112	\$10.68
C	Interiors	#####	\$13,031,660	\$61.03	213,544	\$12,814,827	\$60.01
D	Services	#####	\$15,028,011	\$70.37	213,544	\$16,630,002	\$77.88
D10	Conveying	#####	\$106,460	\$0.50	213,544	\$106,460	\$0.50
D20	Plumbing	#####	\$2,270,334	\$10.63	213,544	\$2,904,941	\$13.60
D30	HVAC	#####	\$5,693,389	\$26.66	213,544	\$5,891,087	\$27.59
D40	Fire Protection	#####	\$832,942	\$3.90	213,544	\$856,398	\$4.01
D50	Electrical	#####	\$6,124,885	\$28.68	213,544	\$6,871,117	\$32.18
E	Furnishings & Fixed Equipment	#####	\$1,664,439	\$7.79	213,544	\$1,694,302	\$7.93
<b>Building Subtotal</b>		<b>#####</b>	<b>\$46,849,307</b>	<b>\$219.39</b>	<b>213,544</b>	<b>\$47,918,797</b>	<b>\$224</b>
F	Special Construction & Demo	#####	\$1,094,000	\$5.12	213,544	\$1,094,000	\$5.12
G	Other Site Construction	#####	\$8,362,217	\$39.16	213,544	\$8,831,166	\$41.36
G10	Site Preparation	#####	\$1,242,066	\$5.82	213,544	\$1,388,121	\$6.50
G20	Site Improvements	#####	\$4,561,779	\$21.36	213,544	\$4,444,787	\$20.81
G30	Mechanical Utilities	#####	\$1,700,017	\$7.96	213,544	\$1,932,912	\$9.05
G40	Electrical Utilities	#####	\$858,355	\$4.02	213,544	\$1,065,347	\$4.99
<b>Subtotal</b>		<b>#####</b>	<b>\$56,305,524</b>	<b>\$263.67</b>	<b>213,544</b>	<b>\$57,843,963</b>	<b>\$271</b>
Z	Mark-Ups	#####	\$4,157,835	7.4%	213,544	\$3,584,924	6.2%
Z	Insurance	#####	\$294,886	0.5%	213,544	\$302,693	0.5%
Z	Subcontractor Bonds	#####	\$296,360	0.5%	213,544	\$273,786	0.5%
Z	GC Bonds	#####	\$296,360	7.1%	213,544	\$273,786	7.6%
Z	Design & Pricing Contingency	#####	\$598,647	1.1%	213,544	\$0	0.0%
Z	General Conditions	#####	\$1,800,000	3.2%	213,544	\$1,800,000	3.1%
Z	Overhead & Profit	#####	\$871,583	1.5%	213,544	\$894,659	1.5%
	Building Permits				213,544	\$40,000	1.1%
<b>Construction Subtotal</b>		<b>#####</b>	<b>\$60,463,359</b>	<b>\$283.14</b>	<b>213,544</b>	<b>\$61,428,887</b>	<b>\$288</b>
Z	Escalation to Construction Mid-Point	#####	\$302,317	0.5%	213,544	\$0	0.0%
<b>Total Construction Cost</b>		<b>#####</b>	<b>\$60,765,676</b>		<b>213,544</b>	<b>\$61,428,887</b>	
<b>\$/GSF</b>			<b>\$285</b>			<b>\$288</b>	

Alternates							
	ALTERNATE NO. 1 - WASTEWATER TREATMENT FACILITY		\$3,495,942			\$3,295,729	
	ALTERNATE NO. 2 - BLEACHERS AND PRESS BOX		\$723,029			\$719,143	
	ALTERNATE NO. 3 - POLYURETHANE TRACK SURFING		\$685,569			\$652,566	
	ALTERNATE NO. 4 - SYNTHETIC TURF AND BASE CONSTRUCTION OF SYNTHETIC TURF		\$833,632			\$832,142	
	ALTERNATE NO. 5 - HALFTIME FACILITY - CONCESSION AND RESTROOM		\$467,012			\$621,541	
	ALTERNATE NO. 6 - IRRIGATION AT ATHLETIC FIELD		\$175,000			\$209,125	
	ALTERNATE NO. 7 - VEGETATED ROOF COVERING AND DECK PAVERS					\$70,954	

# COST ESTIMATE COMPARISON SPREADSHEET (CSI FORMAT)

East Bridgewater Junior/Senior High School									
Estimated Construction Start Date:	XXXX			XXXX			XXXX		
Description	60% CD			100% CD			Bid Data		
	GSF	Total Cost	Unit Cost	GSF	Total Cost	Unit Cost	GSF	Total Cost	Unit Cost
<b>General Requirements Subgroup</b>									
1 General Requirements									
Insurance	213544	294,886	\$1.38	213544	302,693	\$1.42			#DIV/0!
Subcontractor Bonds	213544	296,360	\$1.39	213544	273,786	\$1.28	0		#DIV/0!
GC Bonds	213544	296,360	\$1.39	213544	273,786	\$1.28			#DIV/0!
Design & Pricing Contingency	213544	598,647	\$2.80	213544	0	\$0.00	0		#DIV/0!
General Conditions	213544	1,800,000	\$8.43	213544	1,800,000	\$8.43	0		#DIV/0!
Overhead & Profit	213544	871,583	\$4.08	213544	894,659	\$4.19	0		#DIV/0!
Building Permits					40,000				
<b>Facilities Construction Subgroup</b>									
2 Existing Conditions	213544	450,053	\$2.11	213544	458,833	\$2.15	0		#DIV/0!
3 Concrete	213544	1,938,818	\$9.08	213544	1,826,668	\$8.55	0		#DIV/0!
4 Masonry	213544	6,260,250	\$29.32	213544	6,111,204	\$28.62	0		#DIV/0!
5 Metals	213544	5,920,125	\$27.72	213544	5,872,164	\$27.50	0		#DIV/0!
6 Wood, Plastics and Composites	213544	2,438,252	\$11.42	213544	2,369,926	\$11.10	0		#DIV/0!
7 Thermal & Moisture Protection	213544	3,509,650	\$16.44	213544	3,456,955	\$16.19	0		#DIV/0!
8 Openings	213544	2,398,938	\$11.23	213544	2,401,222	\$11.24	0		#DIV/0!
9 Finishes	213544	5,137,683	\$24.06	213544	5,053,265	\$23.66	0		#DIV/0!
10 Specialties	213544	854,533	\$4.00	213544	776,931	\$3.64	0		#DIV/0!
11 Equipment	213544	1,333,333	\$6.24	213544	1,319,783	\$6.18	0		#DIV/0!
12 Furnishings	213544	1,353,516	\$6.34	213544	1,409,379	\$6.60	0		#DIV/0!
13 Special Construction	213544	1,094,000	\$5.12	213544	1,094,000	\$5.12	0		#DIV/0!
14 Conveying	213544	101,250	\$0.47	213544	101,250	\$0.47	0		#DIV/0!
<b>Facilities Services Subgroup</b>									
21 Fire Suppression	213544	832,942	\$3.90	213544	856,398	\$4.01	0		#DIV/0!
22 Plumbing	213544	2,270,334	\$10.63	213544	2,904,941	\$13.60	0		#DIV/0!
23 HVAC	213544	5,693,389	\$26.66	213544	5,891,087	\$27.59	0		#DIV/0!
25 Integrated Automation	213544		\$0.00	213544		\$0.00	0		#DIV/0!
26 Electrical	213544	6,811,140	\$31.90	213544	7,764,363	\$36.36	0		#DIV/0!
27 Communications	213544	0	\$0.00	213544	0	\$0.00	0		#DIV/0!
28 Electronic Safety and Security	213544	0	\$0.00	213544	0	\$0.00	0		#DIV/0!
<b>Site and Infrastructure Subgroup</b>									
31 Earthwork	213544	1,665,147	\$7.80	213544	1,802,422	\$8.44	0		#DIV/0!
32 Exterior Improvements	213544	4,424,254	\$20.72	213544	4,322,362	\$20.24	0		#DIV/0!
33 Utilities	213544	1,817,917	851.3%	213544	2,050,812	\$9.60	0		#DIV/0!
34 Transportation	213544		0.0%	213544		\$0.00	0		#DIV/0!
35 Waterway and Marine Construction	213544		\$0.00	213544		\$0.00	0		#DIV/0!
<b>Construction Subtotal</b>	<b>213544</b>	<b>60,463,359</b>	<b>\$283.14</b>	<b>213544</b>	<b>61,428,887</b>	<b>\$287.66</b>	<b>0</b>	<b>0</b>	<b>#DIV/0!</b>
Escalation to Construction Mid-Point	213544	302,317	\$1.42	213544	0	\$0.00	0		#DIV/0!
<b>Total Cost</b>	<b>213544</b>	<b>60,765,676</b>		<b>213544</b>	<b>61,428,887</b>		<b>0</b>	<b>0</b>	
<b>\$/GSF</b>		<b>\$285</b>			<b>\$288</b>			<b>#DIV/0!</b>	

Alternates									
ALTERNATE NO. 1 - WASTEWATER TREATMENT FACILITY		\$3,495,942			\$3,295,729				
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ALTERNATE NO. 7 - VEGETATED ROOF COVERING AND ROOF DECK PAVERS					\$70,954				

PROJECT:	East Bridgewater Junior/Senior High School	NO. OF SQ. FT.:	213,544
LOCATION:	East Bridgewater, MA	COST PER SQ. FT.:	\$265.75
CLIENT:	R F Walsh Collaborative Partners		
DATE:	14-Jul-11		
No.:	11010		

**FILED SUB-BID SUMMARY**

	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
<b>DIVISION 04 - MASONRY</b>			
042001 MASONRY*	6,111,204	11%	28.62
<b>DIVISION 05 - METALS</b>			
050001 MISCELLANEOUS & ORNAMENTAL IRON*	1,010,125	2%	4.73
<b>DIVISION 07 - THERMAL &amp; MOISTURE PROTECTION</b>			
071000 DAMPPROOF., WATERPROOF. & CAULKING*	167,708	0%	0.79
070002 ROOFING AND FLASHING*	1,882,672	3%	8.82
<b>DIVISION 08 - OPENINGS</b>			
080005 METAL WINDOWS*	1,427,438	3%	6.68
088000 GLAZING*	58,298	0%	0.27
<b>DIVISION 09 - FINISHES</b>			
090002 LATHING AND PLASTERING*	2,421,985	4%	11.34
090003 TILE*	457,584	1%	2.14
090006 RESILIENT FLOORING*	557,364	1%	2.61
090009 PAINTING*	459,357	1%	2.15
095100 ACOUSTICAL CEILINGS*	615,902	1%	2.88
<b>DIVISION 14 - CONVEYING EQUIPMENT</b>			
142424* HOLELESS HYDRAULIC ELEVATORS	101,250	0%	0.47
<b>DIVISION 21 - FIRE SUPPRESSION</b>			
210000 FIRE SUPPRESSION	856,398	2%	4.01
<b>DIVISION 22 - PLUMBING</b>			
220000 PLUMBING*	2,904,941	5%	13.60
<b>DIVISION 23 - HVAC</b>			
230000 HVAC*	5,891,087	10%	27.59
<b>DIVISION 26 - ELECTRICAL</b>			
260000 ELECTRICAL*	7,764,363	14%	36.36

PROJECT: East Bridgewater Junior/Senior High School  
 LOCATION: East Bridgewater, MA  
 CLIENT: R F Walsh Collaborative Partners  
 DATE: 14-Jul-11

NO. OF SQ. FT.: 213,544  
 COST PER SQ. FT.: \$265.75

No.: 11010

**SUMMARY**

	<u>TOTAL</u>	<u>PERCENT OF PROJECT</u>	<u>COST PER SF</u>
<b>A. SUBSTRUCTURE</b>			
A10 - FOUNDATIONS			
A1010 STANDARD FOUNDATIONS	1,308,463	2%	6.13
A1020 SPECIAL FOUNDATIONS	519,102	1%	2.43
A1030 SLAB ON GRADE	1,004,379	2%	4.70
A20 - BASEMENT CONSTRUCTION			
A2010 BASEMENT EXCAVATION	0	0%	0.00
A2020 BASEMENT WALLS	0	0%	0.00
<b>B. SHELL</b>			
B10 - SUPERSTRUCTURE			
B1010 FLOOR CONSTRUCTION	2,740,572	5%	12.83
B1020 ROOF CONSTRUCTION	2,036,369	4%	9.54
B20 - EXTERIOR ENCLOSURE			
B2010 EXTERIOR WALLS	5,484,302	10%	25.68
B2020 EXTERIOR WINDOWS	1,130,319	2%	5.29
B2030 EXTERIOR DOORS	276,047	0%	1.29
B30 - ROOFING			
B3010 ROOF COVERINGS	2,213,212	4%	10.36
B3020 ROOF OPENINGS	66,900	0%	0.31
<b>C. INTERIORS</b>			
C10 - INTERIOR CONSTRUCTION			
C1010 PARTITIONS	5,204,469	9%	24.37
C1020 INTERIOR DOORS	700,177	1%	3.28
C1030 FITTINGS	3,290,297	6%	15.41
C20 - STAIRS			
C2010 STAIR CONSTRUCTION	237,720	0%	1.11
C2020 STAIR FINISHES	47,172	0%	0.22
C30 - INTERIOR FINISHES			
C3010 WALL FINISHES	433,060	1%	2.03
C3020 FLOOR FINISHES	1,433,499	3%	6.71
C3030 CEILING FINISHES	1,468,433	3%	6.88
<b>D. SERVICES</b>			
D10 - CONVEYING			
D1010 ELEVATORS & LIFTS	106,460	0%	0.50
D1010 ESCALATORS & MOVING WALKS	0	0%	0.00
D1090 OTHER CONVEYING SYSTEMS	0	0%	0.00
D20 - PLUMBING			
D2010 PLUMBING	2,904,941	5%	13.60

	<u>TOTAL</u>	<u>PERCENT OF PROJECT</u>	<u>COST PER SF</u>
D30 - HVAC			
D3010 HVAC	5,891,087	10%	27.59
D40 - FIRE PROTECTION			
D4010 FIRE PROTECTION	856,398	2%	4.01
D50 - ELECTRICAL			
D5010 ELECTRICAL	6,871,117	12%	32.18
<b>E. EQUIPMENT &amp; FURNISHINGS</b>			
E10 - EQUIPMENT			
E1010 COMMERCIAL EQUIPMENT	1,319,783	2%	6.18
E1020 INSTITUTIONAL EQUIPMENT	0	0%	0.00
E1030 VEHICULAR EQUIPMENT	0	0%	0.00
E1090 OTHER EQUIPMENT	0	0%	0.00
E20 - FURNISHINGS			
E 2010 FIXED FURNISHINGS	374,519	1%	1.75
E2020 MOVABLE FURNISHINGS	0	0%	0.00
<b>F. SPECIAL CONSTRUCTION &amp; DEMOLITION</b>			
F10 - SPECIAL CONSTRUCTION			
F1010 SPECIAL STRUCTURES	0	0%	0.00
F1020 INTEGRATED CONSTRUCTION	0	0%	0.00
F1030 SPECIAL CONSTRUCTION SYSTEMS	0	0%	0.00
F1040 SPECIAL FACILITIES	0	0%	0.00
F1050 SPECIAL CONTROLS & INSTRUMENTATION	0	0%	0.00
F20 - SELECTIVE BUILDING DEMOLITION			
F2010 BUILDING ELEMENTS DEMOLITION	0	0%	0.00
F2020 HAZARDOUS COMPONENTS ABATEMENT	0	0%	0.00
<b>G. BUILDING SITEWORK</b>			
G10 - SITE PREPARATION			
G1010 SITE CLEARING	323,950	1%	1.52
G1020 SITE DEMOLITION & RELOCATIONS	458,833	1%	2.15
G1030 SITE EARTHWORK	605,338	1%	2.83
G1040 HAZARDOUS WASTE REMEDIATION	0	0%	0.00
G20 - SITE IMPROVEMENTS			
G2010 ROADWAYS	1,265,068	2%	5.92
G2020 PARKING LOTS	0	0%	0.00
G2030 PEDESTRIAN PAVING	478,469	1%	2.24
G2040 SITE DEVELOPMENT	2,141,806	4%	10.03
G2050 LANDSCAPING	559,444	1%	2.62
G30 - SITE MECHANICAL UTILITIES			
G3010 WATER SUPPLY	317,811	1%	1.49
G3020 SANITARY SEWER	135,829	0%	0.64
G3030 STORM SEWER	1,452,597	3%	6.80
G3040 HEATING DISTRIBUTION	0	0%	0.00
G3050 COOLING DISTRIBUTION	0	0%	0.00
G3060 FUEL DISTRIBUTION	26,675	0%	0.12
G3090 OTHER SITE MECHANICAL UTILITIES	0	0%	0.00
G40 - SITE ELECTRICAL UTILITIES			
G4010 ELECTRICAL DISTRIBUTION	332,498	1%	1.56
G4020 SITE LIGHTING	732,849	1%	3.43

East Bridgewater High School - 100% Construction Document

	<u>TOTAL</u>	<u>PERCENT OF PROJECT</u>	<u>COST PER SF</u>
G4030 SITE COMMUNICATIONS & SECURITY	0	0%	0.00
G4090 OTHER SITE ELECTRICAL UTILITIES	0	0%	0.00
G90 - OTHER SITE CONSTRUCTION			
G9010 SERVICE AND PEDESTRIAN TUNNELS	0	0%	0.00
G9090 OTHER SITE SYSTEMS	0	0%	0.00
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TOTAL	56,749,963	100%	265.75

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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**A. SUBSTRUCTURE**

**A10 - FOUNDATIONS**

A1010 STANDARD FOUNDATIONS

033000 CAST IN PLACE CONCRETE

Foundations:

Column Footing (301 ea)	603	CY	405.00	244,215
Wall Footing 1' x 2' to 3'	364	CY	365.00	132,860
Foundation Wall 1'4" Thick	304	CY	785.00	238,640
Foundation Wall 1'8" Thick	92	CY	865.00	79,580
Foundation Wall 1'-11" Thick	93	CY	865.00	80,445
Foundation wall loading dock	29	CY	700.00	20,300
Thicken slab at CMU	125	CY	185.00	23,125
Pilaster	72	CY	850.00	61,200
Pier at Ext Columns	80	CY	925.00	74,000
Auditorium Interior Foundation Wall 12"	53	CY	625.00	33,125
8" Found wall at CMU	56	CY	550.00	30,800
Pergola col ftg/pier	12	EA	550.00	6,600
Mechanical equip. pads	1	LS	5,000.00	5,000
Elevator mat	8	CY	470.00	3,760
Elevator pit wall	10	CY	620.00	6,200
Mech pits - allow	4	EA	7,500.00	30,000

071000 DAMPPROOF., WATERPROOF. & CAULKING\*

Thermal and Moisture:

Dampproof frost wall	8,020	SF	1.65	13,233
Elev. pit waterproofing	1	EA	3,650.00	3,650
Mech. pit wpg - allow	1	LS	2,500.00	2,500

072100 THERMAL INSULATION

2" Rigid ext. found. insul w/prot.bd	8,020	SF	2.68	21,494
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310000 EARTHWORK

Slab fill	8,027	CY	18.00	144,486
Foundation excavation	4,100	CY	7.50	30,750
Foundation backfill	3,600	CY	6.25	22,500

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1,308,463

A1020 SPECIAL FOUNDATIONS

310000 EARTHWORK

Earthwork:

Preload 20' perimeter	8,052	CY	13.25	106,689
Preload footprint	21,185	CY	13.25	280,701
Monitor - settlement	15	EA	750.00	11,250
Stockpile for re-use	17,577	CY	6.00	105,462



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Dispose surplus preload	2,500	CY	6.00	15,000
				-----
				519,102
 A1030 SLAB ON GRADE				
033000 CAST IN PLACE CONCRETE				
5" Slab on Grade:				
4000 psi, NW, (incl. placement)	1,792	CY	152.00	272,384
6x6 W1.4 X W1.4	116,061	SF	0.94	109,097
Depressed slab edge form @ mat	700	LF	5.00	3,500
Depressed slab edge form @ ket	245	LF	5.00	1,225
Control Joint	2,321	LF	5.25	12,185
Sloped slab premium	1,500	SF	2.00	3,000
Stepped slab premium	1,200	SF	6.00	7,200
Trowel Finish	116,061	SF	1.10	127,667
*unit cost \$4.62				
 Lower Aud. Floor:				
Cast riser - 6"	142	LFR	42.00	5,964
Cast riser - 12"	291	LFR	65.00	18,915
5" Loading dock slab	700	SF	5.50	3,850
5" Loading dock ramp	300	SF	6.00	1,800
Loading dock stair	27.5	LFT	48.00	1,320
 072600 VAPOR RETARDERS				
15 Mil poly - stego wrap	116,061	SF	0.42	48,746
 072100 THERMAL INSULATION				
2" Rigid Slab Insul.	116,061	SF	2.45	284,349
 310000 EARTHWORK				
12" Gravel base	4,299	CY	24.00	103,176
				-----
				1,004,379
<b>TOTAL A10 FOUNDATIONS</b>				<b>2,831,944</b>

**B. SHELL**

**B10 - SUPERSTRUCTURE**

B1010 FLOOR CONSTRUCTION

051200 STRUCTURAL STEEL FRAMING

Floor:

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Wide Flange Beam	393	TONS	2,550.00	1,002,150
Wide Flange Beam - bent beam	8.3	TONS	2,950.00	24,485
Wide Flange Column	55.6	TONS	2,550.00	141,780
HSS Beam	16.8	TONS	2,875.00	48,300
HSS Column	148.2	TONS	2,700.00	400,032
HSS Brace Frame	36.18	TONS	2,775.00	100,400
Shear stud	14,000	EA	5.50	77,000
Moment connection	75	EA	725.00	54,375
Steel grating	458	SF	65.00	29,770
3 1/4 LW conc deck fill	101,552	SF	3.35	340,199
<b>033000 CAST IN PLACE CONCRETE</b>				
Formed Riser at Deck:				
Lecture hall tier seating cast 6" riser	259	LFR	45.00	11,655
Auditorium seating cast 6" riser	160	LFR	45.00	7,200
Auditorium seating cast 12" riser	505	LFR	55.00	27,775
<b>053100 STEEL DECKING</b>				
Metal Floor Deck:				
2", 20 Ga floor deck track	5,982	SF	2.22	13,280
3", 18 Ga floor deck	93,489	SF	2.68	250,551
3", 18 Ga floor deck aud. seating	2,081	SF	4.50	9,365
3", 18 Ga floor deck lecture hall seating	940	SF	4.50	4,230
<b>078100 APPLIED FIREPROOFING</b>				
Fireproofing:				
Floor - structural steel	101,552	GSF	1.95	198,026
				-----
				2,740,572
<b>B1020 ROOF CONSTRUCTION</b>				
<b>033000 CAST IN PLACE CONCRETE</b>				
4" Deck fill @ mech equip. pads	2,660	SF	4.00	10,640
<b>051200 STRUCTURAL STEEL FRAMING</b>				
Roof:				
Wide Flange Beam	263	TONS	2,550.00	670,650
Wide Flange Beam - bent beam	8.3	TONS	2,950.00	24,485
Wide Flange Column	13.9	TONS	2,550.00	35,445
HSS Beam	11.1	TONS	2,875.00	31,913
HSS Column	37.0	TONS	2,875.00	106,490
HSS Brace Frame	24.12	TONS	2,775.00	66,933
Angle Brace Frame	3.2	TONS	3,100.00	9,920
Pergola post	12	EA	275.00	3,300
GFRT roof rail support	1	LS	5,000.00	5,000
Bar Joist	2	TONS	2,500.00	5,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Trusses ( 100 lbs/lf):				
Truss A - 498 lf	25	TONS	2,350.00	119,850
Truss B1-4 - 437 lf	22	TONS	2,350.00	31,843
Truss C - 161 lf	81	TONS	2,350.00	76,375
Truss D - 360 lf	18	TONS	2,350.00	27,965
Truss E - 153 lf	8	TONS	2,350.00	14,100
Galv. RTU dunnage - allow	10	TONS	3,550.00	35,500
Galv. TS Roof screen support (5 lbs/sf)	19.9	TONS	3,550.00	70,645
Moment connection	75	EA	725.00	54,375
050001 MISCELLANEOUS METALS				
Angle at roof edges	18.5	TONS	2,800.00	51,800
053100 STEEL DECKING				
Metal Roof Deck:				
1 1/2", 20 Ga deck - shingle	8,860	SF	2.18	19,315
3", 20 Ga deck - typ	87,067	SF	2.34	203,737
3" 20/20 Ga acoustic deck - aud. (NIC stage)	9,090	SF	6.20	56,358
3" 20/18 Ga acoustic deck - gym	16,263	SF	6.10	99,204
3" 20/18 Ga acoustic deck - café	3,000	SF	6.10	18,300
2", 20 Ga. deck - mech equip. pads	2,660	SF	2.22	5,905
078100 APPLIED FIREPROOFING				
Fireproofing:				
Roof - steel and deck	86,344	GSF	2.10	181,322
				-----
				2,036,369
<b>TOTAL B10 SUPERSTRUCTURE</b>				<b>4,776,942</b>

**B20 - EXTERIOR ENCLOSURE**

## B2010 EXTERIOR WALLS

## 042001 MASONRY\*

## Exterior Wall:

8" CMU backup	17,516	SF	18.75	328,425
4" CMU backup @ gym cols	2,352	SF	23.50	55,272

## 054000 COLD FORMED METAL FRAMING

## Ext. Wall Frame:

6" Ext. wall frame - gable end	191	SF	5.35	1,022
6" Ext. wall frame - boxed col	700	SF	9.00	6,300
8" Ext. wall frame - typ	56,573	SF	7.45	421,469
8" & 4" Ext. wall frame - chase	2,583	SF	6.50	16,790
8" Gym parapet frame (12" h)	485	SF	7.00	3,395
Skylight curb frame (30" h)	360	SF	7.75	2,790

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Ext. Ceiling/Soffit Frame:				
Framing - covered entry clg	3,805	SF	6.50	24,733
Framing - entry boxed beam	1,214	SF	6.50	7,891
Framing - gyp soffits	450	SF	6.50	2,925
Framing - overhang	2,331	SF	6.50	15,152
Roof fascia frame - 18"	8,206	SF	6.75	55,391
072100 THERMAL INSULATION				
1 1/2 Spray wall insul	59,156	SF	2.10	124,228
Ext. wall fluid applied air barrier	79,575	SF	2.44	194,163
072726 FLUID-APPLIED AIR BARRIER				
Ext. soffit/clg fluid applied air barrier	4,888	SF	2.66	13,002
Window/Dr perim -self adhering memb.	8,900	LF	4.70	41,830
072100 THERMAL INSULATION				
2" Rigid wall insul	79,575	SF	2.30	183,023
2" Rigid insul @ soffit	4,888	SF	2.45	11,976
042001 MASONRY*				
Exterior Building Veneer:				
Brick veneer	25,850	SF	28.50	736,725
Brick piers	6,500	SF	33.00	214,500
Brick column	2,154	SF	36.00	77,544
Brick soldier course - head	1,485	SF	37.00	54,945
Brick soldier course radial head	525	LF	70.00	36,750
Brick window soldier course	1,223	SF	18.90	23,115
Brick arch	42	LF	200.00	8,400
Soldier course banding	908	LF	18.00	16,344
Ground split face water table (6-8")	9,746	SF	24.00	233,904
Split face veneer (4")	19,510	SF	21.50	419,465
Ground face veneer (4")	1,569	SF	22.00	34,518
Pergola col. base	12	EA	1,500.00	18,000
Staging	1	LS	80,000.00	80,000
Cast Stone Trim:				
Keystone @ windows/doors	193	EA	200.00	38,600
Water table cap	1,425	LF	55.00	78,375
Pier base cap	628	LF	70.00	43,960
Pier/column base	3,135	SF	65.00	203,775
Pier cap trim	297	LF	90.00	26,730
Column base cap	34	EA	400.00	13,600
Radial window head	67	LF	100.00	6,700
Window jamb	166	LF	55.00	9,130
Rosette window blk	12	EA	425.00	5,100
Masonry flashing	1	LS	30,000.00	30,000
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Metals:				
Radius galv lintel	472	LF	41.00	19,352
Typ. Galv. lintel	2,354	LF	28.00	65,912
24" Galv. plate lintel	22	LF	125.00	2,750

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
24" Galv. Radius plate lintel	225	LF	225.00	50,625
OH door frame	4	EA	450.00	1,800
072420 EXTERIOR FINISH SYSTEM (EFS)				
Exterior Finish System:				
EFS ceiling	2,356	SF	19.50	45,942
EFS soffit	300	SF	22.00	6,600
EFS radius soffit	150	SF	25.00	3,750
068200 GLASS-FIBER-REINFORCED PLASTIC				
GFRP Cornice:				
Gym cornice	439	LF	95.00	41,705
Upper cornice	2,694	LF	100.00	269,400
Lower cornice	594	LF	100.00	59,400
Porch/porche	376	LF	115.00	43,240
GFRP - Ext. Cols:				
21' Full column	6	EA	6,800.00	40,800
21' Half column	2	EA	5,900.00	11,800
14' Full column	9	EA	3,850.00	34,650
12' Three Qtr column	1	EA	3,600.00	3,600
12' Half Qtr column	3	EA	2,600.00	7,800
9' 4" Full column	4	EA	2,500.00	10,000
9' 4" Three Qtr column	4	EA	2,200.00	8,800
9' 4" Half column	17	EA	1,800.00	30,600
8' Full column	6	EA	1,650.00	9,900
8" Full column pergola	12	EA	1,300.00	15,600
GFRP Door & Window Head/Surround:				
Dbl dr surround	2	EA	1,200.00	2,400
Gym arcade arch	129	LF	125.00	16,125
Roof rake main entry	40	LF	110.00	4,400
Roof rake gym	72	LF	55.00	3,960
Pediment cornice	61	LF	130.00	7,930
Pediment gable panel main entry & gym	200	SF	44.00	8,800
Faux window @ gable main entry	1	EA	1,200.00	1,200
Raised panel	1,168	SF	48.00	56,064
Window head straight	44	LF	95.00	4,180
Window head rake	26	LF	110.00	2,860
Window gable	4	SF	50.00	200
Window head cornice - small	29	LF	90.00	2,610
Window head cornice - large	144	LF	130.00	18,720
Window head cornice - small	29	LF	90.00	2,610
Dormer trim	5	EA	90.00	450
Guard Rail:				
Post	50	EA	760.00	38,000
Rail and balustrade	388	LF	280.00	108,640
Covered Entry GFR Trim:				
Coffered ceiling panel @ entry	1,461	SF	65.60	95,842
Box beam w/dentil trim 1' 9"	79	LF	375.00	29,625
Box beam 1' 4"	217	LF	55.00	11,935

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>061000 ROUGH CARPENTRY</b>				
Carpentry:				
1/2" Dens glass sheathing	80,310	SF	2.42	194,350
1/2" Gyp int of gym BU	3,000	SF	1.85	5,550
1/2" PT ply wall sheathing (GFRC)	8,206	SF	1.78	14,607
3/4" PT ply wall sheathing (GFRC)	8,206	SF	1.90	15,591
Ext. wall blocking W wind/cw	8,900	LF	4.75	42,275
GFR col blocking	623	VLF	7.00	4,361
Ext. Ceiling/Soffit				
1/2 & 3/4" PT ply	4,888	SF	2.05	10,020
<b>062000 FINISH CARPENTRY</b>				
Flush wood shop sign panel	10	LF	125.00	1,250
PVC pergola (2' frame)	483	SF	16.00	7,728
<b>050001 MISCELLANEOUS METALS</b>				
Proj. shop signage panel - large (1 EA)	26	LF	500.00	13,000
Shop lettering	60	EA	315.00	18,900
Proj. shop sign panel - small (2 EA)	28	LF	125.00	3,500
<b>101400 SIGNAGE</b>				
School lettering (2 loc)	56	EA	315.00	17,640
<b>090009 PAINTING*</b>				
Exterior painting	1	LS	15,000.00	15,000
				-----
				5,484,302
<b>B2020 EXTERIOR WINDOWS</b>				
<b>080005 METAL WINDOWS*</b>				
Glazed alum. curtain wall	1,933	SF	86.00	166,238
Glazed alum. curtain wall - rad. top	327	SF	88.00	28,776
Alum. windows	13,255	SF	64.00	848,320
Alum windows - rad top	502	SF	80.00	40,160
Alum window - cupola (8 EA)	64	SF	85.00	5,440
<b>071000 DAMPPROOF., WATERPROOF. &amp; CAULKING*</b>				
Window/Dr perim -sealant	8,900	LF	4.65	41,385
				-----
				1,130,319
<b>B2030 EXTERIOR DOORS</b>				
<b>081113 HOLLOW METAL DOORS AND FRAMES</b>				
Ext. HM Door, Frame, Hardware, Glass & Glazing:				
Single	2	EA	1,500.00	3,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Double	7	EA	2,900.00	20,300
<b>083323 OVERHEAD COILING DOORS</b>				
Overhead Door:				
OH-1 Glazed alum. shop door (9'4"x10")	3	EA	5,500.00	16,500
OH-2 Loading dock (12'x7'4")	1	EA	3,300.00	3,300
*Includes glass, glazing & finish hardware				
<b>089000 LOUVERS AND VENTS</b>				
Aluminum louver	300	SF	55.00	16,500
<b>080005 METAL WINDOWS*</b>				
Exterior Alum-Framed Storefronts/Entries:				
Storefront	949	SF	68.00	64,532
Alum. dr - sgl	12	EA	3,800.00	45,600
Alum. dr - dbl	17	EA	6,200.00	105,400
<b>090009 PAINTING*</b>				
Paint HM Door & Frame:				
Single	2	EA	55.00	110
Double	7	EA	115.00	805
				-----
				276,047
<b>TOTAL B20 - EXTERIOR ENCLOSURE</b>				<b>6,890,668</b>

**B30 - ROOFING****B3010 ROOF COVERINGS****070002 ROOFING AND FLASHING\***

## Asphalt Shingle Roof System:

Asphalt shingle	8,860	SF	3.25	28,795
Protection membrane	8,860	SF	1.35	11,961
Ridge vent	137	LF	11.00	1,507

## Polyvinyl Chloride Roof System:

2x3 Walk boards - allow	1,000	EA	36.00	36,000
Memb. recovery bd, 6" insul & VB	118,080	SF	11.65	1,375,632
Tapered roof insul cricket	10,000	SF	6.00	60,000
Vegetated roof sys. Premium		Alternate 7		
Precast roof paver premium		Alternate 7		
Skylight curb flashing/membrane - 30"	360	SF	24.00	8,640
Membrane flashing	1	LS	30,000.00	30,000

## Alum. Sheet Metal Flashing and Trim:

Mansard cap	393	LF	22.00	8,646
PVC/asphalt transition	123	LF	6.00	738
Vented nailable comp. insul panels	8,860	SF	5.05	44,743
Snow guard tab	348	EA	22.00	7,656
Drip/fascia custom color	513	LF	15.00	7,695

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Step flashing/cornice flash	68	LF	38.00	2,584
Typ roof edge	3,832	LF	16.00	61,312
Base flashing	1,690	LF	32.00	54,080
Gravel stop @ elev PH	43	LF	16.00	688
Exp. jt - allow	300	LF	44.00	13,200
Dormer flashing	5	EA	350.00	1,750
<b>070002 ROOFING AND FLASHING*</b>				
Roof Accessories:				
Continuous roof guard rail	517	LF	135.00	69,795
Roof guard rail support	52	EA	50.00	2,600
Stage vent	2	EA	4,500.00	9,000
Elev. penthouse w/louver	1	EA	750.00	750
Cupola roofing & flashing	1	EA	40,000.00	40,000
<b>061000 ROUGH CARPENTRY</b>				
Roof Blocking:				
Flat roof edge	3,832	LF	16.50	63,228
Gym parapet blocking	485	LF	8.00	3,880
Sloped roof edge	513	LF	24.00	12,312
Exp. jt	300	LF	10.00	3,000
<b>050001 MISCELLANEOUS &amp; ORNAMENTAL IRON*</b>				
Roof ladder (5 EA)	64	VLF	120.00	7,680
<b>089200 LOUVERED EQUIPMENT ENCLOSURES</b>				
Prefinished Alum. Equip. Screen - (NIC stl)	6,815	SF	36.00	245,340
				-----
				2,213,212
<b>B3020 ROOF OPENINGS</b>				
<b>086300 METAL-FRAMED SKYLIGHTS</b>				
Alum. Framed Skylight:				
Lobby skylight (10'6"x10'6")	2	EA	14,000.00	28,000
Café skylight (16'6"x16'6")	1	EA	34,000.00	34,000
<b>070002 ROOFING AND FLASHING*</b>				
Roof access hatch - allow	2	EA	2,450.00	4,900
				-----
				66,900
<b>TOTAL B30 ROOFING</b>				<b>2,280,112</b>

**C. INTERIORS**

**C10 - INTERIOR CONSTRUCTION**

**C1010 PARTITIONS**



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>042001 MASONRY*</b>				
Gym CMU Partitions:				
4" CMU chase wall - one side	7,813	SF	14.50	113,289
8" CMU mech chase wall	2,525	SF	18.50	46,713
Full ht pier w/trim	14	EA	4,630.00	64,820
4" CMU col enclosure -track (30EA)	1,260	SF	24.00	30,240
Running track low wall (16"x2'2")	650	SF	51.00	33,150
4" Veneer @ ext. wall 1st flr	3,579	SF	21.00	75,159
Auditorium:				
dbl 8" CMU - 3'h @ seating	147	SF	34.00	4,998
4" CMU veneer @ ramp low wall	331	SF	14.00	4,634
12" CMU	578	SF	20.00	11,560
8" CMU	15,620	SF	18.50	288,970
Library/Media Center:				
Perimeter box col.	14	EA	2,500.00	35,000
Center box col.	7	EA	4,000.00	28,000
PE Gym:				
Perimeter box col. - (3 sides 10'6")	10	EA	7,500.00	75,000
Center box col. -(4 sides 10'6")	3	EA	9,800.00	29,400
4" Veneer @ ext wall 3'	156	SF	20.00	3,120
Corridor/Stair Hall CMU Partitions:				
2/A6.4 - 8" Wing wall @ class entry	463	SF	26.00	12,038
2/A6.4 - 6-8" Pier @ class entry	11,224	SF	24.00	269,376
6" Bulkhead @ stair hall/corridor	509	SF	16.00	8,144
8" Bulkhead @ corridor	1,870	SF	18.00	33,660
8" Bulkhead @ 2HR stair hall	596	SF	18.00	10,728
6" CMU - 5' - 4"h @ 7/A6.41	4,030	SF	16.00	64,480
6" CMU - 3'-4"h @ 12/A6.41	1,665	SF	16.00	26,640
Corridor cmu proj. pier	136	EA	850.00	115,600
Corridor cmu flat pier	30	EA	325.00	9,750
Corridor cmu pier w/trim type 1 & 2	63	EA	900.00	56,700
Typical CMU Partitions:				
4" CMU	4,015	SF	13.00	52,195
6" CMU	27,245	SF	15.00	408,675
8" CMU	58,101	SF	16.50	958,667
6" CMU 2hr	1,547	SF	17.50	27,073
8" CMU 2hr mech/elec	5,453	SF	19.25	104,970
8" CMU elev shaft wall	1,450	SF	19.75	28,638
8" CMU 2 hr stair hall	8,183	SF	17.50	143,203
8" CMU chase ext.stair & locker wall	6,337	SF	20.00	126,740
<b>050001 MISCELLANEOUS &amp; ORNAMENTAL IRON*</b>				
Seismic clip @ CMU part. (4' oc)	1,625	EA	85.00	138,125
Loose lintels @ CMU part.	3,750	LF	18.00	67,500
<b>080005 METAL WINDOWS*</b>				
Interior Framed Storefront/Entries (Glass & Glazing):				
Radius top storefront frame		N/A		

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Typ storefront	595	SF	68.00	40,460
Vest. window B&N	120	SF	68.00	8,160
Vest. radius window N	14	SF	68.00	952
090002 LATHING AND PLASTERING*				
Exterior:				
1 Lyr gyp @ ext. wall	46,657	SF	1.42	66,253
Box cols. @ ext wall ( 72 x 4' x 14' )	4,032	SF	4.90	19,757
Drywall Partition:				
Corridor Wall:				
Bulkhead @ class entry - 7'	3,639	SF	7.25	26,383
4/A6.41 - 2 sides	19,900	SF	6.75	134,325
7/A6.41	11,840	SF	6.75	79,920
12/A6.41	11,976	SF	6.75	80,838
4/A6.41 - locker side	3,007	SF	6.75	20,297
7/A6.41 - masonry side	2,302	SF	6.75	15,539
Reveal premium	1	LS	20,000.00	20,000
Auditorium GWB Partition:				
Curtain head frame	612	SF	15.00	9,180
GF2	1,709	SF	4.35	7,434
GF6	6,888	SF	6.20	42,706
G8	1,146	SF	10.35	11,861
Low wall @ sound booth 3'H	38	SF	12.00	456
Low wall @ upper seating	378	SF	12.00	4,536
Typical GWB Partition:				
G4	7,490	SF	7.75	58,048
GA4	15,569	SF	11.30	175,930
GA6	20,679	SF	11.90	246,080
GA8	10,844	SF	14.50	157,238
GF1	3,010	SF	4.60	13,846
GF2	1,922	SF	5.40	10,379
GF4	15,702	SF	6.00	94,212
GF6	11,372	SF	6.35	72,212
GD - one side	2,172	SF	9.00	19,548
S1	3,526	SF	13.75	48,483
Veneer plaster - wall	141,657	SF	1.50	212,486
				-----
				5,204,469

## C1020 INTERIOR DOORS

## 062000 FINISH CARPENTRY

Wood Frame Interior Window (Media Ctr):  
Windows frame (15 EA)

258 SF 33.00 8,514

## 080005 METAL WINDOWS\*

Int. HM Frame Glass & Glazing:

Control rm window (14'x4') 56 SF 33.00 1,848

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
TV studio window (9'x4')	36	SF	33.00	1,188
Pass thru ticket window	1	EA	2,500.00	2,500
Typ. window (33 EA)	1,492	SF	30.00	44,760
Misc. HM sidelite & windows	1	LS	10,000.00	10,000
<b>083326 OVERHEAD COILING GRILLES</b>				
Overhead Coiling Grille:				
Servery (18'x8')	144	SF	65.00	9,360
Servery (9'6"x8')	152	SF	65.00	9,880
<b>088000 GLAZING</b>				
Windows frame (15 EA)	258	SF	14.00	3,612
Control rm window (14'x4')	56	SF	14.00	784
TV studio window (9'x4')	36	SF	14.00	504
Typ. window (33 EA)	1,492	SF	14.00	20,888
Typical sidelight	801	SF	14.00	11,214
Door glazing	1	LS	20,000.00	20,000
<b>098400 ACOUSTIC ROOM COMPONENTS</b>				
Sound Control Doors - Premium:				
Aud. control rm - sgl	1	EA	250.00	250
TV/sound studio - sgl	5	EA	250.00	1,250
Music practice class - sgl	3	EA	250.00	750
Music class - dbl	2	EA	500.00	1,000
<b>080005 METAL WINDOWS*</b>				
Aluminum Door, Frame, Glass, Glazing & Hdw:				
Alum dr - sgl	3	EA	3,800.00	11,400
Alum dr - dbl	10	EA	6,200.00	62,000
<b>081113 HOLLOW METAL DOORS AND FRAMES</b>				
Wd. Door, HM Frame, Hardware, Glass & Glazing:				
Class w/ sidelight	73	EA	1,200.00	87,600
Connector class - sgl	2	EA	775.00	1,550
Science Prep rm	15	EA	800.00	12,000
Stair hall - sgl	1	EA	2,500.00	2,500
Stair hall - dbl	12	EA	4,500.00	54,000
Corridor/vestibule - sgl	6	EA	2,500.00	15,000
Corridor - dbl	8	EA	4,500.00	36,000
Corridor - sgl w/sidelite	1	EA	3,800.00	3,800
Sgl fixture toilet rm	28	EA	750.00	21,000
Multi fixture toilet/locker rm	12	EA	750.00	9,000
Storage rm - sgl	33	EA	620.00	20,460
Storage rm - dbl	6	EA	1,050.00	6,300
Mech/elec - sgl	25	EA	650.00	16,250
Mech/elec - dbl	1	EA	1,100.00	1,100
Office - sgl	67	EA	800.00	53,600
Office - sgl w/sidelite	14	EA	1,000.00	14,000
Media ctr dbl w/sidelite	1	EA	3,300.00	3,300
Office suite - dbl	1	EA	1,400.00	1,400
Track/gym - dbl	9	EA	2,750.00	24,750
Stage/vest. - dbl	4	EA	2,750.00	11,000
Music practice class - sgl	3	EA	900.00	2,700

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Music class - dbl	2	EA	1,600.00	3,200
Aud - dbl	8	EA	2,750.00	22,000
Kitchen - sgl	3	EA	950.00	2,850
TV sound rm - sgl	5	EA	900.00	4,500
Aud. control rm - sgl	1	EA	900.00	900
Café - dbl	2	EA	2,750.00	5,500
PE Gym - dbl	1	EA	2,750.00	2,750
090009 PAINTING*				
Paint HM door frame - sgl	286	EA	65.00	18,590
Paint HM door frame - dbl	55	EA	95.00	5,225
Paint HM window/sidelite	2,872	SF	5.00	14,360
Paint wd. windows	258	SF	5.00	1,290
*Excludes painting prefinished wood doors				-----
				700,177

## C1030 FITTINGS

## Auditorium:

## 050001 MISCELLANEOUS &amp; ORNAMENTAL IRON\*

Metal grille (2'9"x7'5") - allow	2	EA	930.00	1,860
Catwalk w/rails & access		NIC		
Guard rail @ stage stair	32	LF	175.00	5,600
Guard rail @ cast aisle stair (26 EA)	52	LF	195.00	10,140

## 062000 FINISH CARPENTRY

Low wall wd rail and cap	92	LF	145.00	13,340
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## 050001 MISCELLANEOUS &amp; ORNAMENTAL IRON\*

## Auditorium:

Low wall mtl rail supports	92	LF	50.00	4,600
Wall rail @ ramp	90	LF	110.00	9,900
Guardrail @ ramp	50	LF	235.00	11,750
Guardrail post support @ ramp	21	EA	250.00	5,250

## 088000 GLAZING\*

Dressing rm mirror (6 EA)	72	SF	18.00	1,296
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## 062000 FINISH CARPENTRY

## Gymnasium:

Track rail @ wall cap	285	LF	165.00	47,025
Track guard rail & base	60	LF	330.00	19,800
Radius track guard rail & base	48	LF	440.00	21,120

## 050001 MISCELLANEOUS &amp; ORNAMENTAL IRON\*

Gym equip. & curtain support	1	LS	17,000.00	17,000
Toilet partition support	40	EA	120.00	4,800

## Interior Guardrail:

Mech rm mezzanine guardrail	38	LF	165.00	6,270
Shop mezzanine guardrail	76	LF	195.00	14,820
Shop mezzanine gate 3'w	2	EA	600.00	1,200

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Lobby guardrail	66	LF	275.00	18,150
Lobby guardrail post support	2	EA	250.00	500
Lecture hall guardrail	27	LF	330.00	8,910
Lecture hall guardrail post support	4	EA	330.00	1,320
Interior Wall Rail:				
Lecture hall - tiered seating	60	LF	115.00	6,900
Exterior Guardrail:				
Loading dock w/stair (1 flt)	21	LF	190.00	3,990
Loading dock ramp	108	LF	220.00	23,760
Loading dock ramp gate dbl	1	EA	1,500.00	1,500
Counter supports	1	LS	7,500.00	7,500
TV studio curtain support rails (73 LF)	1	LS	7,500.00	7,500
Expansion jt assemblies	1	LS	50,000.00	50,000
Misc. metals	213,544	GSF	0.25	53,386
071000 DAMPPROOF., WATERPROOF. & CAULKING*				
Int. joint sealants window/doors	9,200	LF	3.50	32,200
Int. joint sealants	213,544	GSF	0.35	74,740
064000 ARCHITECTURAL WOODWORK				
Solid Surface Counter/Casework:				
Recycling center - café	24	LF	245.00	5,880
Recycling center - corridor (8 EA)	36	LF	245.00	8,820
Chair rail - allow	1	LS	5,000.00	5,000
062000 FINISH CARPENTRY				
Auditorium Wood Trim:				
Sound reflector (2 EA) A 10.17	220	SF	95.00	20,900
Entry door surround (dbl - 2 sides)	8	EA	2,100.00	16,800
Control rm window surround	1	EA	1,800.00	1,800
Proscenium trim	850	SF	23.00	19,550
Wainscot/stage front wall panel	486	SF	55.00	26,730
Column 18" panel	730	SF	50.00	36,500
Wood base	150	LF	9.00	1,350
Ceiling trim - applied	1,325	LF	22.00	29,150
Misc. running trim (clg/wall)	1	LS	15,000.00	15,000
Library Wood Trim:				
Office surround & roof trim	1	LS	8,500.00	8,500
Entry/faux entry surround	3	EA	7,000.00	21,000
Int. window/tack bd trim	14	EA	1,400.00	19,600
Ext. window trim - G	6	EA	4,800.00	28,800
Ext. window trim - typ	3	EA	1,700.00	5,100
Raised panel @ false window	6	EA	2,450.00	14,700
Upper pier - ext wall	18	EA	1,600.00	28,800
Upper pier - center	6	EA	3,100.00	18,600
Misc. applied running trim	220	LF	24.00	5,280
Metal & Wood Shop:				
Int. Dr/Window header (7 EA)	39	LF	60.00	2,340
False window surround	2	EA	1,400.00	2,800

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Acoustical panel trim	92	LF	28.00	2,576
PE Gym Wood Trim:				
Entry door surround	1	EA	3,500.00	3,500
Perimeter box col. (3 side - 13'6")	7	EA	1,600.00	11,200
Center box col (4 side - 13'6")	2	EA	3,100.00	6,200
Raised panel (3'6"h)	193	SF	55.00	10,615
Wainscot wall cap	100	LF	9.50	950
Misc. interior trim	1	LS	7,500.00	7,500
Gym Wood Trim:				
Window (E) head trim	154	LF	60.00	9,240
Rail molding (low wall) 4/A8.11	285	LF	28.00	7,980
Guardrail molding 5/A8.11	60	LF	26.00	1,560
Radius guardrail molding/panel 3/A8.12	48	LF	145.00	6,960
Misc. wood trim	1	LS	10,000.00	10,000
Café:				
Tile wall cap	224	LF	12.00	2,688
Ext. door surround	2	EA	2,500.00	5,000
Entry door surround	1	EA	2,500.00	2,500
Interior trim	1	LS	2,500.00	2,500
Lecture Hall:				
Column 18" panel	174	SF	50.00	8,700
Misc. interior trim	1	LS	2,500.00	2,500
Band/Chorus:				
Column 18" panel	7	EA	775.00	5,425
Misc. interior trim	1	LS	10,000.00	10,000
Interior Wood Trim:				
Corridor pier cornice cap		W/ masonry		
Corridor wainscot wall cap	917	LF	9.50	8,712
Main entry surround	3	EA	5,000.00	15,000
Stair # 1 door surround	3	FLRS	5,000.00	15,000
Main lobby applied wall trim	400	LF	10.00	4,000
Gym lobby raised panel	288	SF	55.00	15,840
Adj. wall mtd shelving	1	LS	15,000.00	15,000
Storage and closet shelving	1	LS	10,000.00	10,000
Central admin. Wd window & wall trim - allow	1	LS	5,000.00	5,000
061000 ROUGH CARPENTRY				
Rough Carpentry:				
Interior blocking	213,544	GSF	0.25	53,386
Misc. rough carpentry	213,544	GSF	0.25	53,386
064000 ARCHITECTURAL WOODWORK				
Custom Casework:				
Library circulation desk	24	LF	875.00	21,000
Library comp desk (3 EA)	63	LF	400.00	25,200
Library low shelving	116	LF	235.00	27,260
Library full ht shelving	97	LF	475.00	46,075
Library col. base comp sta(4' x4')	2	EA	550.00	1,100

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Administration office desk - front	17.5	LF	450.00	7,875
Administration office desk - rear	17.5	LF	450.00	7,875
Administration mail box	1	LS	7,500.00	7,500
Administration desk gate - sgl	2	EA	1,200.00	2,400
Vestibule wood bench (1 EA)	10	LF	400.00	4,000

## 1230000 CASEWORK

## Manufactured Casework w/Stainless Steel Counters:

## Art Classroom (3 EA):

Open storage 4' high	14	LF	170.00	2,380
Open storage 7' high	12	LF	245.00	2,940
48" Tall storage	2	EA	1,500.00	3,000
Wall cab	81	LF	115.00	9,315
Base cab w/ctr	49	LF	275.00	13,475
ADA sink ctr	12	LF	210.00	2,520
Sink base cab	31.5	LF	275.00	8,663
Fixed decorative shelf	78	LF	25.00	1,950
Integral sink	9	EA	700.00	6,300
Integral ADA sink	3	EA	700.00	2,100

## Art Storage Room (2 EA):

48" Tall storage	1	EA	1,500.00	1,500
Wall cab	37	LF	115.00	4,255
Base cab w/ctr	31	LF	275.00	8,525

## Manufactured Casework w/ Epoxy Resin Counters:

## HS Science Rm - Bio/Chem (4 EA):

Wall cab	246	LF	115.00	28,290
Base cab w/ctr 36" d	96	LF	275.00	26,400
ADA sink ctr	14	LF	210.00	2,940
Sink base cab	136	LF	275.00	37,400
Open tall storage	28	LF	300.00	8,400

## HS Science Prep Rm - Bio/Chem (2 EA):

36" Tall storage	2	EA	1,400.00	2,800
Wall cab	60.5	LF	110.00	6,655
Base cab w/ctr	41	LF	275.00	11,275
ADA sink ctr	6	LF	210.00	1,260
Work counter	13.5	LF	190.00	2,565

## HS Science Rm - Physics (2 EA):

Wall cab	61.5	LF	115.00	7,073
Base cab w/ctr	3	LF	275.00	825
Base cab w/ctr - 36"d	48	LF	275.00	13,200
ADA sink ctr	7	LF	210.00	1,470
Sink base cab	68	LF	275.00	18,700
Work counter	2	LF	190.00	380

## HS Science Prep Rm - Physics (1 EA):

36" Tall storage	1	EA	1,400.00	1,400
42" Tall storage	6	EA	1,450.00	8,700

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Wall cab	20	LF	110.00	2,200
Base cab w/ctr	12	LF	275.00	3,300
ADA sink ctr	3	LF	210.00	630
Sink base cab	3	LF	275.00	825
Work counter	2	LF	190.00	380
MS Science Rm - 8th Grade (2 EA):				
Wall cab	37	LF	110.00	4,070
Base cab w/ctr	49	LF	275.00	13,475
ADA sink ctr	6	LF	210.00	1,260
Sink base cab	6	LF	275.00	1,650
MS Science Rm - 7th Grade (2 EA):				
Tank shelving unit	35	LF	300.00	10,500
Wall cab	78.5	LF	110.00	8,635
Base cab w/ctr	3	LF	275.00	825
Base cab w/ctr - 36"d	48	LF	275.00	13,200
ADA sink ctr	7	LF	210.00	1,470
MS Science Prep Rm (2 EA):				
36" Tall storage	4	EA	1,400.00	5,600
Wall cab	64	LF	110.00	7,040
Base cab w/ctr	48	LF	275.00	13,200
ADA sink ctr	6	LF	210.00	1,260
Work counter	4	LF	190.00	760
Central Science Chem/Storage (1 EA) - Allow:				
42" Tall storage	3	EA	1,450.00	4,350
Wall cab	21	LF	110.00	2,310
Base cab w/ctr	10	LF	275.00	2,750
ADA sink ctr	3	LF	210.00	630
Work counter	7.5	LF	190.00	1,425
Manufactured Casework w/ Plastic Laminate Counters:				
Ticket/concession ctr	16.5	LF	165.00	2,723
Auditorium control rm ctr	8	LF	145.00	1,160
Security office work ctr	16.5	LF	145.00	2,393
Teachers station T1	59	EA	1,060.00	62,540
Teachers station T2	21	EA	840.00	17,640
Dressing rm ctr (2 EA)	24	LF	145.00	3,480
TV control rm ctr	11.5	LF	145.00	1,668
Perimeter open shelving (50%)	593	LF	95.00	56,335
Perimeter enclosed shelving (50%)	593	LF	115.00	68,195
Learning center tall storage cab	6	EA	1,500.00	9,000
Auditorium storage rm cab	14	LF	300.00	4,200
Health Suite:				
36" Tall storage	2	EA	1,300.00	2,600
Wall cab	23	LF	100.00	2,300
Base cab w/ctr	14	LF	205.00	2,870
ADA sink ctr	9	LF	165.00	1,485
Coat rod w/ shelf	6	LF	12.00	72

Library Work Room:



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
24" Tall storage	1	EA	1,100.00	1,100
Wall cab	21	LF	100.00	2,100
Base cab w/ctr	14.5	LF	205.00	2,973
ADA sink ctr	3	LF	165.00	495
Low shelving	18	LF	235.00	4,230
Teachers Dining Room:				
Wall cab	8.5	LF	100.00	850
Base cab w/ctr	2.5	LF	205.00	513
ADA sink ctr	3	LF	165.00	495
Teachers Planning:				
Wall cab	47	LF	100.00	4,700
Base cab w/ctr	36	LF	205.00	7,380
ADA sink ctr	6	LF	165.00	990
Work counter	24	LF	65.00	1,560
Guidance Suite:				
Wall cab	12	LF	100.00	1,200
Base cab w/ctr	13	LF	205.00	2,665
ADA sink ctr	3	LF	165.00	495
Work counter	12.5	LF	65.00	813
Adj. shelving - 2 tier	25	LF	12.00	300
Department Head Suite:				
Wall cab	18	LF	100.00	1,800
Base cab w/ctr	12	LF	205.00	2,460
Central Administration Suite:				
36" Tall storage	3	EA	1,300.00	3,900
Wall cab	13	LF	100.00	1,300
Base cab w/ctr	30	LF	205.00	6,150
ADA sink ctr	3	LF	165.00	495
Work counter	3	LF	65.00	195
Student Council Suite:				
36" Tall storage	1	EA	1,300.00	1,300
Wall cab	12	LF	100.00	1,200
Base cab w/ctr	7	LF	205.00	1,435
ADA sink ctr	3	LF	165.00	495
Trainers Room:				
Wall cab	10	LF	100.00	1,000
Base cab w/ctr	4	LF	205.00	820
ADA sink ctr	3	LF	165.00	495
Work counter	3	LF	65.00	195
TV studio equip. rm:				
36" Tall storage	4	EA	1,300.00	5,200
Wall cab	10	LF	100.00	1,000
Base cab w/ctr	10	LF	205.00	2,050
Business lab/classroom:				
36" Tall storage	4	EA	1,300.00	5,200

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Wall cab	14	LF	100.00	1,400
Base cab w/ctr	21	LF	205.00	4,305
Therapy Classroom (2EA):				
36" Tall storage	2	EA	1,300.00	2,600
Wall cab	17	LF	100.00	1,700
Base cab w/ctr	10	LF	205.00	2,050
ADA sink ctr	6	LF	165.00	990
Life Skills Classroom (3EA):				
36" Tall storage	3	EA	1,300.00	3,900
Wall cab	30	LF	100.00	3,000
Base cab w/ctr	45	LF	205.00	9,225
ADA sink ctr	9	LF	165.00	1,485
Cooktop counter	3	LF	75.00	225
Wall oven cab.	3	EA	300.00	900
MIDI Lab (1EA):				
36" Tall storage	2	EA	1,300.00	2,600
Wall cab	16	LF	100.00	1,600
Base cab w/ctr	16	LF	205.00	3,280
Metal & Wood Shop (1EA):				
Wall cab	9	LF	100.00	900
Base cab w/ctr	2	LF	205.00	410
ADA sink ctr	6	LF	165.00	990
Wood Shop (1EA):				
Base cab w/ctr	40	LF	205.00	8,200
ADA sink ctr	3	LF	165.00	495
CAD Lab :				
Base cab w/ctr	40	LF	205.00	8,200
Drafting Lab:				
36" Tall storage	1	EA	1,300.00	1,300
Base cab w/ctr	17	LF	205.00	3,383
Fixed decorative shelf	20	LF	25.00	500
Work counter	10	LF	75.00	750
Graphics Lab:				
Wall cab	26	LF	100.00	2,600
Base cab w/ctr	30	LF	205.00	6,150
ADA sink ctr	3	LF	165.00	495
Main Office Work Room:				
Wall cab	26	LF	100.00	2,600
Base cab w/ctr	18	LF	205.00	3,690
ADA sink ctr	3	LF	165.00	495
Music Rooms:				
30" Tall storage cab	1	EA	1,200.00	1,200
36" Tall storage cab	1	EA	1,300.00	1,300
ADA sink ctr	3	LF	165.00	495

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Wall cab	3	LF	100.00	300
Music/instrument storage	47	LF	400.00	18,800
Recording rm work ctr	7	LF	75.00	525
Recording rm table	5	LF	125.00	625
Lecture Hall w/Storage Room:				
Built in tall storage	1	EA	2,500.00	2,500
Wall cab	8	LF	100.00	800
Base cab w/ctr	8	LF	205.00	1,640
36" Tall storage	2	EA	1,300.00	2,600
Storage unit ( 4'x4')	1	EA	1,500.00	1,500
Classroom (35 EA):				
36" Tall storage	70	EA	1,300.00	91,000
Wall cab	210	LF	100.00	21,000
Base cab w/ctr	210	LF	205.00	43,050
Corridor Display Case - Full Ht:				
Gym - allow	30	LF	550.00	16,500
Auditorium lobby - allow	30	LF	550.00	16,500
Art corridor - allow	30	LF	550.00	16,500
Library drop box w/surround	1	EA	3,000.00	3,000
Corridor achievement bd (10'x6')	6	EA	3,000.00	18,000
False corridor window (7'x5')	8	EA	1,500.00	12,000
Corridor TV board (6'x6')	4	EA	2,500.00	10,000
12"x12" Corridor acoustic bd	36	EA	75.00	2,700
Corr. acoustic bd w/trim (3'x6')	15	EA	700.00	10,500
Corr. acoustic bd w/trim (5'x6')	6	EA	800.00	4,800
062000 FINISH CARPENTRY				
3/4" Hardwood Window Trim:				
Window sill	2,044	LF	12.50	25,550
078400 FIRESTOPPING				
Firestopping	213,544	GSF	0.22	46,980
083100 ACCESS DOORS AND PANELS				
Access doors & panels - allow	1	LS	30,000.00	30,000
098414 WOOD FIBER ACOUSTICAL PANELS				
Fabric Wrapped Wall Panel:				
Lecture hall	952	SF	28.00	26,656
Auditorium	456	SF	28.00	12,768
Music classroom wall	282	SF	28.00	7,896
Music classroom - soffit	408	SF	28.00	11,424
Music practice room - allow	216	SF	28.00	6,048
T&G Wood Fiber Wall Panel:				
Tech Labs - allow	475	SF	14.00	6,650
Gym wall panel 2x4	48	EA	150.00	7,200
Metal & wood shop	195	SF	16.00	3,120
102813 TOILET ACCESSORIES				
Toilet Accessories:				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Stainless steel shelf	46	EA	115.00	5,290
Coat hook	66	EA	18.00	1,188
Grab bars	92	EA	85.00	7,820
Mirrors - framed (18"wx30"h)	72	EA	165.00	11,880
Mop and broom holders	9	EA	125.00	1,125
Sanitary napkin disposal	41	EA	60.00	2,460
Shower curtains & rods	18	EA	45.00	810
Towel hook	12	EA	15.00	180
Shower seat	6	EA	375.00	2,250
Towel dispenser	46	EA	225.00	10,350
Soap dispenser	72	EA	45.00	3,240
Toilet tissue dispenser	66	EA	44.00	2,904
Baby changing sta. - allow	2	EA	400.00	800

\*Excludes classroom & office accessories

#### 105113 METAL LOCKERS

Locker:

Corridor 15"	960	EA	215.00	206,400
PE MS student 15"	72	EA	215.00	15,480
Sped therapeutic class (15"x3')	20	EA	95.00	1,900
Custodian 15"	6	EA	175.00	1,050
Kitchen 12"	4	EA	155.00	620
Gym office 15"	14	EA	175.00	2,450
PE HS student dbl tier 15"	292	EA	175.00	51,100
10" Bench (18 EA)	88	LF	65.00	5,720
24" Bench (6 EA)	24	LF	95.00	2,280
Concrete locker base	1,787	LF	32.00	57,184

#### 104400 FIRE PROTECTION SPECIALTIES

Fire Protection Specialties:

Fire extinguisher	83	EA	115.00	9,545
Fire extinguisher & cab	73	EA	325.00	23,725
Fire valve dept. cab.	21	EA	300.00	6,300

#### 101400 SIGNAGE

Interior Signage	1	LS	75,000.00	75,000
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#### 102113 TOILET COMPARTMENTS

Phenolic Toilet Partition:

Standard	20	EA	925.00	18,500
Barrier free	20	EA	1,025.00	20,500
Urinal screen	10	EA	275.00	2,750

#### 102123 CUBICLES

Curtain and Track:

Health suite	5	EA	1,650.00	8,250
Dressing rm	2	EA	1,650.00	3,300

#### 102228 FOLDING-PANEL OPERABLE PARTITIONS

Operable Partitions:

Folding panel acoustical partition 9'6"	532	SF	89.00	47,348
Premium pass dr., frame & hdw - sgl	2	EA	2,000.00	4,000

#### 101116 MARKERBOARDS

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Interactive white boards		w/Electrical		
Markerboards - 4' high	3,880	SF	19.00	73,720
Horiz. sliding markerbds-math class (9 EA)	432	SF	25.00	10,800
Tackboards - 4' high	4,256	SF	12.00	51,072
Trim, chalk rail and accessories	1	LS	10,000.00	10,000
054000 COLD FORMED METAL FRAMING				
Interior Roof - Shop, Media Ctr, Corridors:				
Roof frame	781	SF	15.00	11,715
062000 FINISH CARPENTRY				
Interior Roof - Shop, Media Ctr, Corridors:				
Roof deck & trim	781	SF	10.00	7,810
				-----
				3,290,297
<b>TOTAL C10 - INTERIOR CONSTRUCTION</b>				<b>9,194,943</b>

**C20 - STAIRS**

## C2010 STAIR CONSTRUCTION

061000 ROUGH CARPENTRY				
Auditorium wd. stage stair frame (2 ft)	60	LFR	62.00	3,720
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Metal Pan Stair w/Rails:				
Monumental	2	FLT	40,000.00	80,000
Switchback	7	FLT	18,500.00	129,500
Wall ladder-roof access (1 EA)	14	VLF	125.00	1,750
Ships ladder - roof access (1 EA)	14	VLF	125.00	1,750
Straight - shop		N/A		
Straight - mech rm	1	FLT	7,500.00	7,500
033000 CAST IN PLACE CONCRETE				
Conc. pan fill	10	EA	1,350.00	13,500
				-----
				237,720

## C2020 STAIR FINISHES

062000 FINISH CARPENTRY				
Wood tread - stage	60	LF	62.00	3,720
090006 RESILIENT FLOORING*				
Stair Hall #1-#5:				
Rubber landing tile	1,200	SF	9.00	10,800
Rubber tread & riser	1,368	LFR	14.00	19,152
*Excludes mechanical rm stair finish				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
*Excludes porcelain tile tread and landings				
090009 PAINTING*				
Paint stair & rail	10	FLT	1,350.00	13,500
				-----
				47,172
<b>TOTAL C20 - STAIRS</b>				<b>284,892</b>

**C30 - INTERIOR FINISHES**

C3010 WALL FINISHES

090003 TILE*				
Ceramic Wall Tile:				
Shower Room Wall Tile - 8'	2,080	SF	15.25	31,720
Cafeteria	1,335	SF	20.00	26,700
Kitchen	3,000	SF	15.25	45,750
Art rm	184	SF	20.00	3,680
Graphic arts lab	80	SF	20.00	1,600
Custodian rm @ mop sink (9 EA)	216	SF	15.25	3,294
*Excludes toilet rm wall				
090009 PAINTING*				
Interior painting-walls	213,544	GSF	1.50	320,316
				-----
				433,060

C3020 FLOOR FINISHES

072600 VAPOR RETARDERS				
Vapoer barrier - stage flr	3,012	SF	0.38	1,145
090003 TILE*				
Lobby/Vestibule & Main Corridor Floor Tile:				
Porcelain tile	6,800	SF	14.50	98,600
Lobby decorative tile premium	1	LS	5,000.00	5,000
Saddle/thresholds	1	LS	10,000.00	10,000
Porcelain tile wall base	1,650	LF	9.50	15,675
Kitchen Floor Tile:				
Quarry tile	2,485	SF	14.00	34,790
Quarry tile - wall base	400	LF	8.70	3,480
Anti fracture membrane	2,485	SF	4.75	11,804
Alum. transition strips	1	LS	1,000.00	1,000
*Includes cooler/freezer, office & toilet rm				
Toilet Floor Tile:				
Ceramic tile	6,300	SF	14.75	92,925
Ceramic wall built-up base	2,166	LF	16.00	34,656

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Shw receptor		W/Plumbing		
ADA shw receptor		W/Plumbing		
Stone threshold	33	EA	45.00	1,485
Stone saddle (14 EA)	100	LF	55.00	5,500
Anti fracture membrane - 1st flr	3,800	SF	4.75	18,050
Waterproofing membrane - upper flr	2,500	SF	4.75	11,875
<b>090006 RESILIENT FLOORING*</b>				
Resilient Flooring:				
VCT	85,810	SF	2.90	248,849
Sheet vinyl flooring - science	1,643	SY	76.50	125,690
Sheet vinyl - health suite	62	SY	76.50	4,743
Sheet vinyl - dressing rm	32	SY	76.50	2,448
Rubber tile - art room	3,820	SF	7.15	27,313
Rubber tile - stair hall	2,104	SF	7.15	15,044
Rubber tile - aud ramp	250	SF	6.75	1,688
Athletic rubber flr tile - locker rm	3,900	SF	10.75	41,925
Athletic rubber flr tile - PE gym	1,871	SF	10.75	20,113
Resilient wall base	18,000	LF	2.20	39,600
<b>033000 CAST IN PLACE CONCRETE</b>				
Moisture Mitigation	106,247	SF	0.50	53,124
Conc. sealer @ carpet	25,596	SF	0.90	23,036
<b>090009 PAINTING*</b>				
Concrete Slab Sealant/Paint:				
Mech/elec	6,100	SF	1.00	6,100
Auditorium	3,733	SF	1.00	3,733
<b>096429 WOOD STRIP AND PLANK FLOORING</b>				
Wood strip and plant aud. floor	712	SF	10.00	7,120
<b>096466 WOOD ATHLETIC FLOORING</b>				
Wood athletic flooring	14,181	SF	15.50	219,806
Vented wall base	534	LF	6.75	3,605
<b>062000 FINISH CARPENTRY</b>				
Stage nosing	131	LF	8.00	1,048
Stage vented wall base	150	LF	6.00	900
Laminated wood flooring - stage	2,300	SF	7.00	16,100
<b>096733 THIN-FILM EPOXY FLOORING</b>				
Epoxy flooring - shop class	4,700	SF	8.25	38,775
Epoxy flooring - cust. shop	600	SF	8.25	4,950
<b>096766 FLUID APPLIED ATHLETIC FLOORING</b>				
Track fluid applied urethane athletic flr	5,557	SF	11.00	61,127
<b>096800 CARPETING</b>				
Anti static carpet	173	SY	40.00	6,920
Carpet:				
Lecture hall - tiered seating	230	SY	40.00	9,200
Auditorium aisle	384	SY	40.00	15,360

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Media center	740	SY	40.00	29,600
Office	1,490	SY	40.00	59,600
				-----
				1,433,499

## C3030 CEILING FINISHES

## 090002 LATHING AND PLASTERING\*

## Framed Gyp Ceiling:

Typical	8,560	SF	7.75	66,340
Toilet rm	6,743	SF	7.75	52,258
Classroom entrance (64 EA)	2,041	SF	9.00	18,369
Auditorium w/soffits @ ACT	2,258	SF	35.00	79,030
Acoustical gyp clg mech rm	1,409	SF	14.00	19,726
Veneer plaster - ceiling	20,970	SF	1.60	33,552
Auditorium clouds	1,872	SF	45.00	84,240

## Gyp Soffit:

Skylight soffit	144	LF	62.00	8,928
Classroom entry (64 EA)	587	LF	22.00	12,914
Corridor/gym lockers - 13" w	1,300	LF	32.00	41,600
Corridor - perim. 6" w	621	LF	32.00	19,872
Corridor perim - 10" w	1,481	LF	32.00	47,392
Cross corridor - 1-1 5/8"	563	LF	72.00	40,536
Cross corridor - 1-9 5/8"	972	LF	78.00	75,816
Cross corridor - 2-5 5/8"	100	LF	84.00	8,400
Cross track - 1'8"	217	LF	75.00	16,275
Radius track rail 1'8"	40	LF	150.00	6,000
Track rail 1'8" (flush and arch)	370	LF	95.00	35,150
Perim. track 9"	487	LF	32.00	15,584
Music rm built-up w/trim	750	SF	28.00	21,000
Typ. soffit frame 4-6' h	1,231	LF	18.00	22,158
Box beam mech rm - 2 hr	148	LF	75.00	11,100
Box beam graphic arts	88	LF	75.00	6,600
Veneer plaster soffit	19,500	SF	1.60	31,200

## 095100 ACOUSTICAL CEILING\*

## Acoustical Ceiling Tile:

Science ACT box trim	414	LF	8.00	3,312
ACT-1 (2x4x5/8)	59,276	SF	2.80	165,973
ACT-2 (2x2x5/8)	46,519	SF	3.15	146,535
ACT-3 (2x4x5/8 vinyl face)	3,197	SF	5.50	17,584
ACT-4 (2x4x1 MR)	1,830	SF	6.00	10,980
ACT-5 (2x4 midi lab)	850	SF	6.00	5,100
ACT-6 (2x2x1)	802	SF	6.50	5,213
ACT-7 kitchen (2x2x5/8)	2,485	SF	5.50	13,668
ACT-7 auditorium open grid	1,998	SF	5.00	9,990
ACT-X lobby	894	SF	10.00	8,940
ACT-X PE gym	774	SF	10.00	7,740

## 090009 PAINTING\*



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Gyp ceiling painting	20,970	SF	1.00	20,970
062000 FINISH CARPENTRY				
Café pergola (2x4 wd frame)	263	SF	6.00	1,578
051200 STRUCTURAL STEEL FRAMING				
Ceiling:				
Café pergola frame	263	SF	15.00	3,945
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Misc. metal clg hanger - sci rm	76	LF	15.00	1,140
062000 FINISH CARPENTRY				
Applied molding lobby clg	750	LF	12.00	9,000
Applied radius molding stair #1	1	LS	2,500.00	2,500
090009 PAINTING*				
Exposed structure painting	28,113	SF	1.40	39,358
095100 ACOUSTICAL CEILINGS*				
Ceiling System - Complete:				
Metal & wood shop	4,611	SF	8.00	36,888
Lecture hall	1,300	SF	8.00	10,400
Café	5,650	SF	15.00	84,750
Library	5,922	SF	15.00	88,830
				-----
				1,468,433
<b>TOTAL C30 - INTERIOR FINISHES</b>				<b>3,334,992</b>

**D. SERVICES****D10 - CONVEYING**

## D1010 ELEVATORS &amp; LIFTS

## 142424\* HOLELESS HYDRAULIC ELEVATORS

Elevator #1 (1 door 3500#)	3	STOP	33,750.00	101,250
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## 050001 MISCELLANEOUS &amp; ORNAMENTAL IRON\*

Elevator:

Pit ladder	1	EA	1,100.00	1,100
Frame	1	EA	3,500.00	3,500
Sump grate	1	EA	610.00	610

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106,460**TOTAL D10 - CONVEYING** **106,460**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>D20 - PLUMBING</b>				
<b>D2010 PLUMBING</b>				
P-1 Standard WC	20	EA	1,925.00	38,500
P-1H Handicapped WC	46	EA	1,925.00	88,550
P-2 Standard urinal	8	EA	1,700.00	13,600
P-2H Handicapped urinal	10	EA	1,700.00	17,000
P-3 Standard lavatory	25	EA	1,250.00	31,250
P-3H Handicapped lavatory	45	EA	1,250.00	56,250
P-4 Bi-level cooler w/remote chiller	9	EA	4,100.00	36,900
P-4A Bi-level handicapped cooler	1	EA	3,850.00	3,850
P-5 Typical shower	6	EA	1,275.00	7,650
P-5H Handicapped shower	6	EA	1,560.00	9,360
P-6 Band room sink	1	EA	1,400.00	1,400
P-7 Training room sink	2	EA	1,400.00	2,800
P-7A Training room sink	1	EA	1,400.00	1,400
P-8 Janitor sink - 36"x24"	9	EA	1,575.00	14,175
P-8A Janitor sink	1	EA	1,500.00	1,500
P-9 Supply emerg. shr/eyewash	10	EA	2,250.00	22,500
P-9A Supply emerg. shr/eyewash	2	EA	2,250.00	4,500
P-9B Eyewash	1	EA	1,800.00	1,800
P-10 Work sink	11	EA	1,600.00	17,600
P-11 Typical science sink	24	EA	950.00	22,800
P-11A science sink	42	EA	1,100.00	46,200
P-11H Handicapped science sink	9	EA	1,100.00	9,900
P-12 Science work sink	3	EA	950.00	2,850
P-12H Handicapped science work sink	5	EA	1,100.00	5,500
P-13 Nurse/exam sink	2	EA	1,450.00	2,900
P-14 Install art room sink	9	EA	700.00	6,300
P-15 Install art room handicapped sink	3	EA	700.00	2,100
P-16 Washer connection	5	EA	600.00	3,000
P-17 Art sink	1	EA	1,950.00	1,950
P-18 Double bowl work sink	3	EA	1,800.00	5,400
P-19 Whirlpool connection	2	EA	600.00	1,200
P-21 - Special deep sink	2	EA	1,850.00	3,700
Fixture rough-in and trim	323	EA	325.00	104,975
Rec rm htr	1	EA	2,500.00	2,500
Wall hydrant	19	EA	425.00	8,075
Hose bib	13	EA	350.00	4,550
Acid neut. tank	1	LS	15,000.00	15,000
Recycled Water:				
Recycle water booster pump/piping & valve	1	LS	50,000.00	50,000
UG service 5"	120	LF	150.00	18,000
20,000 Gal tank	1	EA	27,500.00	27,500
UV filtration	1	LS	28,500.00	28,500
Well	1	EA	22,500.00	22,500
HW circ	6	EA	5,500.00	33,000
Gas fired water heater - complete A/B	1	LS	95,000.00	95,000
Hot water solar panel system	1	LF	48,000.00	48,000
Vac pump	1	EA	2,700.00	2,700

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Roof/Storm Drain System:				
Underground D/W/V Pipe:				
4"	605	LF	42.00	25,410
5"	205	LF	51.00	10,455
6"	235	LF	56.50	13,278
8"	515	LF	92.50	47,638
10"	160	LF	122.00	19,520
12"	315	LF	156.00	49,140
15"	320	LF	214.00	68,480
18"	15	LF	290.00	4,350
FCO	49	EA	375.00	18,375
Above Ground D/W/V Pipe:				
4"	1,535	LF	44.00	67,540
5"	585	LF	53.00	31,005
6"	560	LF	58.00	32,480
8"	160	LF	94.00	15,040
CO	171	EA	410.00	70,110
Roof drain	49	EA	980.00	48,020
Insulate rain leader	2,380	LF	12.00	28,560
Sanitary System:				
Underground D/W/V Pipe:				
2"	340	LF	32.00	10,880
3"	155	LF	36.50	5,658
4"	1,965	LF	42.00	82,530
5"	430	LF	51.00	21,930
12"	95	LF	56.50	5,368
FCO	76	EA	375.00	28,500
FD	33	EA	675.00	22,275
Grease interceptor - exterior	1	EA	12,000.00	12,000
Grease interceptor - interior	2	EA	5,500.00	11,000
Industrial waste tank - exterior	1	EA	35,000.00	35,000
FD	31	EA	675.00	20,925
Above Ground D/W/V Pipe:				
1 1/2"	30	LF	29.50	885
2"	1,480	LF	32.00	47,360
2 1/2"	135	LF	34.00	4,590
3"	970	LF	36.50	35,405
4"	635	LF	42.00	26,670
CO	12	EA	410.00	4,920
FD	6	EA	675.00	4,050
Copper Pipe:				
1/2"	4,800	LF	14.90	71,520
3/4"	3,845	LF	19.45	74,785
1"	1,460	LF	24.00	35,040
1 1/4"	1,130	LF	29.00	32,770
1 1/2"	1,885	LF	35.50	66,918
2"	490	LF	49.50	24,255
2 1/2"	220	LF	69.50	15,290
3"	745	LF	90.00	67,050
4"	365	LF	136.00	49,640
5"	130	LF	170.00	22,100

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
1/2" Underslab	70	LF	65.00	4,550
Misc. valve	1	LS	19,381.39	19,381
Back flow preventers	1	LS	6,000.00	6,000
1" Pipe Insulation:				
1/2"	4,800	LF	6.00	28,800
3/4"	3,845	LF	7.15	27,492
1"	1,460	LF	7.55	11,023
1 1/4"	1,130	LF	7.98	9,017
1 1/2"	1,885	LF	8.05	15,174
2"	490	LF	8.55	4,190
2 1/2"	220	LF	9.05	1,991
3"	745	LF	9.55	7,115
4"	365	LF	12.50	4,563
5"	130	LF	15.00	1,950
1/2" Underslab	70	LF	20.00	1,400
Trap primers	17	EA	225.00	3,825
Acid/Ind/Det Waste UG D/W/V:				
2"	20	LF	33.50	670
3"	15	LF	39.50	593
4"	600	LF	49.50	29,700
6"	140	LF	70.00	9,800
FCO	17	EA	375.00	6,375
GCO	2	EA	375.00	750
FD	9	EA	675.00	6,075
AC D/W/V:				
1 1/2"	165	LF	31.00	5,115
2"	960	LF	33.50	32,160
3"	325	LF	39.50	12,838
2 1/2"	255	LF	46.00	11,730
4"	1,320	LF	49.50	65,340
CO	34	EA	290.00	9,860
FD	14	EA	675.00	9,450
Gas Pipe:				
1/2"	335	LF	20.30	6,801
3/4"	200	LF	23.00	4,600
1"	365	LF	26.00	9,490
1 1/4"	15	LF	29.00	435
1 1/2"	15	LF	40.50	608
3"	95	LF	62.00	5,890
4"	420	LF	74.00	31,080
5"	40	LF	115.00	4,600
8" boiler header	50	LF	275.00	13,750
10"	20	LF	195.00	3,900
Master SAS valve box	1	LS	3,000.00	3,000
Valve and trim	1	LS	15,000.00	15,000
Science rm gas turret	65	EA	525.00	34,125
Compressed Air Pipe:				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
1/2"	185	LF	14.90	2,757
1"	115	LF	24.00	2,760
1 1/4"	240	LF	29.00	6,960
1 1/2"	45	LF	35.50	1,598
Air compressor	1	EA	4,000.00	4,000
Hose reel	5	EA	1,300.00	6,500
Vacuum Pipe:				
1/2"	20	LF	14.90	298
1"	110	LF	24.00	2,640
1 1/4"	20	LF	29.00	580
1 1/2"	105	LF	35.50	3,728
1" Gas vent PVC	180	LF	14.00	2,520
Underground Service:				
6"	10	LF	200.00	2,000
Test, clean & gc	1	LS	25,000.00	25,000
Permit	1	LS	30,000.00	30,000
				-----
				2,904,941

<b>TOTAL D20 - PLUMBING</b>	<b>\$13.60 /sf</b>			<b>2,904,941</b>
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**D30 - HVAC**

D3010 HVAC

230000 HVAC\*

Rooftop Unit:

RTU-1	27,400	CFM	6.25	171,250
RTU-2	11,050	CFM	6.25	69,063
RTU-3	21,725	CFM	6.25	135,781
RTU-4	34,100	CFM	6.25	213,125
RTU-5	15,000	CFM	6.25	93,750
RTU-6	5,000	CFM	6.25	31,250
RTU-7	12,000	CFM	6.25	75,000
RTU-8	1,600	CFM	7.00	11,200
RTU-9	17,000	CFM	5.25	89,250
RTU-10	5,800	CFM	6.25	36,250

Energy Recovery Unit:

ERU-1 (5000 CFM)	1	LS	35,000.00	35,000
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Fan Coil Unit:

FCU-1 (285 CFM)	1	EA	1,750.00	1,750
FCU-2 (575 CFM)	1	EA	1,750.00	1,750

Air Handling Unit:

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
AHU-1 - 2 hp	1	EA	15,000.00	15,000
AHU-2 - 3 hp	1	EA	12,000.00	12,000
Variable Frequency: VFD 1, 2, 3, 4		w/Electrical		
Sound Attenuator: SA1 thru SA27	27	EA	5,000.00	135,000
Ductless Split-Type Air Conditioner:				
DFC-1/CU-1 (3 1/2 ton)	1	EA	12,500.00	12,500
DFC-2/CU-2 (1 ton)	1	EA	3,500.00	3,500
DFC-3/CU-3 (1 ton)	1	EA	3,500.00	3,500
DFC-4/CU-4 (1 ton)	1	EA	3,500.00	3,500
DFC-5/CU-5 (1 ton)	1	EA	3,500.00	3,500
DFC-6/CU-6 (1 ton)	1	EA	3,500.00	3,500
DFC-7/CU-7 (1 ton)	1	EA	3,500.00	3,500
DFC-8/CU-8 (1 ton)	1	EA	3,500.00	3,500
DFC-9/CU-9 (1 ton)	1	EA	3,500.00	3,500
DFC-10/CU-10 (1 ton)	1	EA	3,500.00	3,500
Add OFC 11 thru 14	4	EA	8,000.00	32,000
Supply:				
Registers:				
Grilles/registers	459	EA	235.00	107,865
4' Lin dif	51	EA	210.00	10,710
6' Linear diffuser	14	EA	275.00	3,850
10' Linear diffuser	2	EA	410.00	820
Louvers:				
3'x4'	1	EA	500.00	500
2'x6'	2	EA	520.00	1,040
Dampers:				
VD	425	EA	210.00	89,250
Fire	19	EA	245.00	4,655
ACD	1	EA	1,100.00	1,100
Ductwork:				
Galvanized	71,688	LBS	8.50	609,348
Lined	19,463	LBS	12.00	233,556
Duct insulation	58,000	SF	3.90	226,200
Return:				
Registers:				
Grilles/registers	295	EA	195.00	57,525
Dampers:				
VD	243	EA	210.00	51,030
Fire	3	EA	235.00	705
ACD	8	EA	1,100.00	8,800
Ductwork:				
Galvanized	62,587	LBS	8.50	531,990
1" Lined duct	7,713	LBS	12.00	92,556
Stainless steel	622	LBS	14.00	8,708

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Welded kit. exh	375	LBS	18.00	6,750
Brick vent	1	EA	1,000.00	1,000
Wall cap	2	EA	2,200.00	4,400
Flue/Breeching:				
18"	10	LF	265.00	2,650
24"	10	LF	390.00	3,900
28"	55	LF	420.00	23,100
Air Cooled Chiller:				
ACC-1 (395 ton)	1	LS	265,000.00	265,000
Chiller piping, valves & trim	1	LS	30,000.00	30,000
Make-up Kitchen Air:				
MAU-1	1	EA	32,000.00	32,000
Boiler:				
B-1 (MCF-1800)	1	EA	44,000.00	44,000
B-2 (MCF-1800)	1	EA	44,000.00	44,000
B-3 (MCF-1800)	1	EA	44,000.00	44,000
B-4 (MCF-1800)	1	EA	44,000.00	44,000
B-5 (MCF-1800)	1	EA	44,000.00	44,000
Boiler valve and trim	1	LS	35,000.00	35,000
Pump:				
P-1 (540 GPM 40 HP)	1	EA	19,500.00	19,500
P-2 (540 GPM 40 HP)	1	EA	19,500.00	19,500
P-3 (940 GPM 30 HP)	1	EA	19,500.00	19,500
P-4 (940 GPM 30 HP)	1	EA	19,500.00	19,500
Air Separator:				
AS-1 (540 GPM)	1	EA	1,800.00	1,800
AS-2 (940 GPM)	1	EA	2,300.00	2,300
Expansion Tank:				
ET-1 (528 gal.)	1	EA	4,900.00	4,900
ET-2 (528 gal.)	1	EA	4,900.00	4,900
ET-3 (158 gal.)	1	EA	3,700.00	3,700
Exhaust Fan:				
EF-1 thru EF-29	29	EA	4,000.00	116,000
Hot Water Reheat Coil:				
RH-1	1	EA	1,800.00	1,800
RH-2	1	EA	1,800.00	1,800
RH-3	1	EA	1,800.00	1,800
Horizontal Unit Heater:				
HUH-1 (750 cfm 08.2 mbh)	2	EA	3,600.00	7,200
HUH-2 (2200 cfm 177.4 mbh)	1	EA	2,950.00	2,950
EUH-1 (5 kw)	2	EA	1,150.00	2,300
Finned Tube Radiation:				
FT-1	18	LF	65.00	1,170

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>Cabinet Unit Heater:</b>				
CUH-1 (250 cfm)	10	EA	2,975.00	29,750
CUH-2 (345 cfm)	6	EA	2,975.00	17,850
<b>Convactor:</b>				
CV-1 (1.1 MBH)	11	EA	1,500.00	16,500
CV-2 (1.4 MBH)	16	EA	1,500.00	24,000
CV-3 (5.3 MBH)	4	EA	1,500.00	6,000
<b>Condensate pumps</b>				
Condensing units (600 sw dfc's)	14	EA	750.00	10,500
<b>Roof Intake &amp; Relief Vent:</b>				
R1,2,3	3	EA	3,700.00	11,100
<b>Destratification Fan:</b>				
DF-1 (2300 CFM)	9	EA	775.00	6,975
<b>HVAC Pipe:</b>				
Refrig	925	LF	26.00	24,050
<b>Condensate:</b>				
3/4"	285	LF	15.00	4,275
1"	120	LF	19.00	2,280
1 1/4"	15	LF	22.00	330
CO	11	EA	150.00	1,650
<b>Hot Water:</b>				
3/4"	7,140	LF	19.45	138,873
1"	1,345	LF	24.00	32,280
1 1/4"	860	LF	29.00	24,940
1 1/2"	255	LF	35.50	9,053
2"	720	LF	49.50	35,640
2 1/2"	555	LF	69.50	38,573
3"	1,575	LF	74.00	116,550
4"	1,040	LF	82.00	85,280
6"	955	LF	108.00	103,140
8"	200	LF	122.00	24,400
Valves	1	LS	30,436.40	30,436
<b>Chilled Water:</b>				
3/4"	90	LF	19.45	1,751
1 1/4"	300	LF	29.00	8,700
1 1/2"	285	LF	35.50	10,118
2"	60	LF	49.50	2,970
2 1/2"	200	LF	69.50	13,900
3"	230	LF	74.00	17,020
4"	1,080	LF	82.00	88,560
6"	1,405	LF	108.00	151,740
Valves	1	LS	14,737.90	14,738
<b>1" Pipe Insulation:</b>				
3/4"	7,230	LF	7.15	51,695



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
1"	1,345	LF	7.55	10,155
1 1/4"	1,160	LF	7.98	9,257
1 1/2"	540	LF	8.05	4,347
2"	780	LF	8.55	6,669
2 1/2"	755	LF	9.05	6,833
3"	1,805	LF	9.55	17,238
4"	2,120	LF	12.50	26,500
6"	2,360	LF	15.00	35,400
8"	200	LF	21.00	4,200
Terminal boxes	157	EA	1,475.00	231,575
Test and balance	213,544	GSF	0.70	149,481
ACT controls	213,544	GSF	0.50	106,772
Misc. HVAC	1	LS	30,000.00	30,000
				-----
				5,891,087
<b>TOTAL D30 - HVAC</b>	<b>\$27.59 /sf</b>			<b>5,891,087</b>

**D40 - FIRE PROTECTION**

## D4010 FIRE PROTECTION

## 210000 FIRE SUPPRESSION

8" Valve assembly	1	LS	12,500.00	12,500
Siamese connection	1	EA	1,650.00	1,650
Hose Cabinet:				
FVC-C	21	EA	1,600.00	33,600
FVC-D	2	EA	1,600.00	3,200
FCVA	8	EA	1,400.00	11,200
Heads:				
Concealed	1,762	EA	64.00	112,768
Pendant	362	EA	55.00	19,910
Sidewall	25	EA	55.00	1,375
Roof hydrant	1	EA	1,200.00	1,200
Pipe:				
1"	7,610	LF	19.70	149,917
1 1/4"	3,575	LF	22.00	78,650
1 1/2"	3,720	LF	24.50	91,140
2"	1,845	LF	24.00	44,280
2 1/2"	1,395	LF	28.50	39,758
3"	870	LF	32.50	28,275
4"	3,570	LF	38.50	137,445
6"	820	LF	62.00	50,840
8"	510	LF	74.00	37,740
Underground Fire Prot. Service:				
8"	10	LF	95.00	950

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				856,398
<b>TOTAL D40 - FIRE PROTECTION</b>	<b>\$4.01</b>	<b>/sf</b>		<b>856,398</b>

**D50 - ELECTRICAL**

D5010 ELECTRICAL

260000 ELECTRICAL\*

POWER DISTRIBUTION

MAIN SWITCHBOARD

4000 AMP 1 EA 96,025.00 96,025

PANELBOARDS

120-208 Volt 100% Neutral:

Lighting Relay Panel:

225 AMP main lug 3 EA 1,835.00 5,505

Three Phase Panelboard:

100 AMP main brkr 8 EA 980.00 7,840

225 AMP main brkr 4 EA 2,636.00 10,544

400 AMP main brkr 9 EA 4,435.00 39,915

1600 AMP main brkr 1 EA 14,786.00 14,786

120-208 Volt 200% Neutral:

100 AMP main brkr 9 EA 1,080.00 9,720

225 AMP main brkr 4 EA 2,652.00 10,608

277-480 Volt 100% Neutral:

100 AMP main lug 6 EA 1,291.00 7,746

225 AMP main lug 6 EA 2,259.00 13,554

100 AMP main brkr 2 EA 2,762.00 5,524

225AMP main brkr 1 EA 2,967.00 2,967

1600 AMP main brkr 1 EA 15,615.00 15,615

SMART PANEL 120/208 - 277/480V

100 AMP main lug 4 EA 6,500.00 26,000

METERING

Single meter can 1 EA 363.00 363

100% NEUTRAL FEEDERS

FEEDERS - IN EMT - THREE PHASE

50 AMP 60 LF 21.40 1,284

60 AMP 70 LF 22.90 1,603

70 AMP 70 LF 26.90 1,883

100 AMP 430 LF 33.85 14,556

125 AMP 40 LF 38.25 1,530

150 AMP 20 LF 38.25 765

175 AMP 20 LF 41.20 824

225 AMP 200 LF 54.95 10,990

400 AMP 10 LF 106.70 1,067

800 AMP 30 LF 204.50 6,135

1600 AMP 40 LF 408.25 16,330

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>PVC UNDERGROUND THREE PHASE</b>				
50AMP	200	LF	8.35	1,670
70AMP	200	LF	13.05	2,610
100AMP	1,420	LF	19.95	28,329
150AMP	200	LF	25.75	5,150
175AMP	290	LF	28.90	8,381
225AMP	1,690	LF	40.00	67,600
400AMP	390	LF	92.05	35,900
1600AMP	10	LF	385.35	3,854
4000AMP	50	LF	1,054.20	52,710
<b>SPARE OR EMPTY RACEWAYS</b>				
<b>PVC UNDERGROUND</b>				
1"	330	LF	3.95	1,304
2"	170	LF	8.45	1,437
4"	260	LF	17.80	4,628
<b>EMT EXPOSED</b>				
3/4"	250	LF	5.50	1,375
1"	1,410	LF	6.15	8,672
1 1/4"	350	LF	7.90	2,765
2"	710	LF	10.55	7,491
3"	400	LF	22.55	9,020
4"	1,070	LF	30.30	32,421
<b>GENERATOR SIGNAL -UNDERGROUND</b>				
Annunciator circuits	10	LF	9.40	94
<b>CABLE TRAY - LADDER TYPE</b>				
18" Ladder	3,130	LF	50.25	157,283
<b>ENCLOSED CIRCUIT BREAKER - 3 PHASE - TO 600 VOLTS</b>				
100 AMP	1	LF	795.00	795
175 AMP	1	LF	1,764.00	1,764
225 AMP	2	LF	1,832.00	3,664
400 AMP	2	LF	3,078.00	6,156
<b>DISCONNECT SWITCHES - 3 POLE</b>				
<b>HEAVY DUTY TO 250 VOLTS</b>				
<b>2 POLE:</b>				
30 AMP F	16	EA	186.00	2,976
60 AMP F	2	EA	299.00	598
100 AMP F	1	EA	452.00	452
30 AMP F	17	EA	262.00	4,454
<b>3 POLE:</b>				
30 AMP NF	8	EA	179.00	1,432
60 AMP NF	4	EA	286.00	1,144
<b>HEAVY DUTY TO 600 VOLTS</b>				
30 AMP NF	4	EA	167.00	668
100 AMP NF	4	EA	398.00	1,592
100 AMP F	1	EA	515.00	515
200 AMP F	2	EA	814.00	1,628
30 AMP NF WP	17	EA	226.00	3,842
60 AMP NF WP	4	EA	371.00	1,484

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
100 AMP NF WP	2	EA	505.00	1,010
1200 AMP F WP	1	EA	7,193.00	7,193
DRY TYPE TRANSFORMER - NON K RATED				
15 KVA	1	EA	2,617.00	2,617
30 KVA	3	EA	3,412.00	10,236
45 KVA	4	EA	4,222.00	16,888
75 KVA	7	EA	5,941.00	41,587
112.5 KVA	2	EA	8,342.00	16,684
500 KVA	1	EA	35,071.00	35,071
DRY TYPE TRANSFORMER - K-13 RATED				
15 KVA	5	EA	4,260.00	21,300
30 KVA	4	EA	5,556.00	22,224
45 KVA	3	EA	6,951.00	20,853
MOTOR CONTROLS				
LOCAL MOTOR CONTROL:				
COMBINATION STARTERS				
Size 0	15	EA	899.00	13,485
MANUAL STARTERS				
120 Volt 1 pole	231	EA	100.00	23,100
120 Volt 1 pole WP	17	EA	146.00	2,482
MOTOR OPERATORS				
One button	8	EA	129.00	1,032
Three button	4	EA	183.00	732
EPO	9	EA	129.00	1,161
VARIABLE FREQUENCY DRIVE				
40 HP	4	EA	8,597.00	34,388
DIESEL GENERATORS				
90 kw	1	EA	226,937.00	226,937
Remote annunciator	1	EA	994.00	994
SPECIAL ENCLOSURES				
800-1000 kw	1	EA	65,000.00	65,000
AUTOMATIC TRANSFER SWITCH				
225 AMP	1	EA	4,993.00	4,993
1600 AMP	1	EA	16,840.00	16,840
RECEPTACLE				
Duplex	765	EA	167.00	127,755
Duplex GFI	323	EA	195.00	62,985
Double duplex	22	EA	183.00	4,026
Double duplex surge	355	EA	282.00	100,110
30 AMP recept	23	EA	204.00	4,692
50 AMP recept	6	EA	410.00	2,460
EMT RACEWAYS				
SWITCHES				
S	11	EA	208.00	2,288
SK	5	EA	212.00	1,060
SKSK	1	EA	272.00	272
SKSKSK	1	EA	317.00	317
SKSKSKSK	2	EA	383.00	766
RECEPTACLES				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Duplex	58	EA	206.00	11,948
Double duplex	4	EA	231.00	924
Duplex GFI WP	39	EA	243.00	9,477
20 AMP twist lock	88	EA	198.00	17,424
Rough In: Tel/data/video	920	EA	85.00	78,200
<b>PVC RACEWAY - UNDERSLAB</b>				
Duplex	10	EA	452.00	4,520
Duplex GFI	37	EA	475.00	17,575
1 GANG floor box w/recept	2	EA	341.00	682
2 GANG floor box w/dbl duplex/tel	14	EA	535.00	7,490
<b>WIREMOLD</b>				
Telepower poles	3	EA	199.00	597
<b>FIRE ALARM - ADDRESSABLE METAL CLAD CABLE</b>				
Fire Alarm - Quote INSTALL FA	1	LS	85,000.00	85,000
FACP	1	EA	600.00	600
Annunciator	3	EA	1,482.00	4,446
Smoke detector	159	EA	163.00	25,917
Heat detector	1	EA	167.00	167
Duct smoke detector	24	EA	285.00	6,840
Pull station	35	EA	143.00	5,005
Remote test seitch	24	EA	139.00	3,336
Speaker-strobe unit	183	EA	247.00	45,201
Strobe only unit	54	EA	162.00	8,748
Weatherproof beacon	3	EA	445.00	1,335
Door holder	36	EA	190.00	6,840
Monitor module	39	EA	145.00	5,655
Knox box	3	EA	325.00	975
<b>PUBLIC ADDRESS SYSTEM</b>				
Rough In: Amplifier	4	EA	250.00	1,000
Ceiling/wall speaker	360	EA	85.00	30,600
Scoreboard	2	EA	15,000.00	30,000
Volume control	47	EA	85.00	3,995
Mike outlet	43	EA	85.00	3,655
<b>CLOCK SYSTEM</b>				
Rough In: Clock backbox	112	EA	54.00	6,048
<b>SECURITY SYSTEM</b>				
Rough In: Key pad	7	EA	85.00	595
Door switch	170	EA	85.00	14,450
Card reader	47	EA	85.00	3,995
CCTV camera	164	EA	85.00	13,940
<b>BRANCH CIRCUITS</b>				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
IN EMT				
20 AMP CIRCUIT:				
One circuit	949	EA	414.00	392,886
Two circuit	17	EA	451.00	7,667
30 AMP CIRCUIT:				
One circuit	10	EA	446.00	4,460
IN PVC - UNDERSLAB				
20 AMP CIRCUIT:				
One circuit	45	EA	413.00	18,585
30 AMP CIRCUIT:				
One circuit	27	EA	447.00	12,069
MOTOR CIRCUITS				
IN EMT				
SINGLE PHASE:				
20 AMP circuit	111	EA	561.00	62,271
THREE PHASE				
20 AMP circuit	32	EA	606.00	19,392
30 AMP circuit	2	EA	653.00	1,306
40 AMP circuit	2	EA	713.00	1,426
50-60 AMP circuit	5	EA	908.00	4,540
100 AMP circuit	6	EA	1,315.00	7,890
125 AMP circuit	2	EA	1,707.00	3,414
IN PVC - UNDERSLAB				
SINGLE PHASE				
20 AMP circuit	8	EA	464.00	3,712
30 AMP circuit	2	EA	507.00	1,014
THREE PHASE				
20 AMP circuit	5	EA	512.00	2,560
30 AMP circuit	4	EA	633.00	2,532
40 AMP circuit	5	EA	696.00	3,480
70 AMP circuit	1	EA	968.00	968
100 AMP circuit	1	EA	1,169.00	1,169
Lightning protection	1	LS	50,000.00	50,000
Short circuit co-ord study	1	LS	20,000.00	20,000
Permit	1	LS	30,000.00	30,000
Temporary electric	1	LS	20,000.00	20,000
Lighting Fixtures:				
Lighting fixture - quote	1	LS	820,000.00	820,000
A	219	EA	96.25	21,079
AD	172	EA	96.25	16,555
AE	1	EA	110.00	110
A1	154	EA	74.25	11,435
A1D	1	EA	74.25	74
A2	24	EA	44.00	1,056
A2D	4	EA	52.25	209
A2E	3	EA	46.75	140
A3	55	EA	44.00	2,420
A3D	4	EA	49.50	198
A3E	11	EA	52.25	575

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
A4	5	EA	44.00	220
A4E	5	EA	46.75	234
A5	4	EA	96.25	385
A5D	4	EA	96.25	385
A6	4	EA	82.50	330
A7	42	EA	68.75	2,888
B	277	EA	44.00	12,188
B2	35	EA	46.75	1,636
B2E	1	EA	49.50	50
B3	40	EA	49.50	1,980
B4	7	EA	49.50	347
C2	93	EA	44.00	4,092
C2D	22	EA	46.75	1,029
C2E	6	EA	49.50	297
C3	36	EA	46.75	1,683
C3D	3	EA	49.50	149
C4	19	EA	46.75	888
D2	68	EA	41.25	2,805
DC1	6	EA	55.00	330
DC2	3	EA	55.00	165
DC3	1	EA	55.00	55
E2	35	EA	41.25	1,444
E3	32	EA	44.00	1,408
E4	9	EA	46.75	421
F	84	EA	38.50	3,234
F2	4	EA	35.75	143
G	48	EA	60.50	2,904
J	9	EA	52.25	470
K	16	EA	52.25	836
K1	2	EA	46.75	94
L	132	EA	49.50	6,534
L1	3	EA	49.50	149
L2	32	EA	49.50	1,584
L3	63	EA	49.50	3,119
L4	7	EA	49.50	347
L5	6	EA	60.50	363
M	6	EA	49.50	297
N2	60	EA	44.00	2,640
N2E	6	EA	46.75	281
N3	15	EA	46.75	701
N3E	5	EA	49.50	248
N4	0	EA	0.00	0
P	36	EA	55.00	1,980
P3	26	EA	55.00	1,430
RL	4	EA	55.00	220
Q	22	EA	49.50	1,089
T	4	EA	60.50	242
T1	8	EA	60.50	484
T2	15	EA	60.50	908
U	66	EA	49.50	3,267
U6	17	EA	55.00	935
V	10	EA	60.50	605
Y	0	EA	0.00	0

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Z	7	EA	60.50	424
BB	38	EA	68.75	2,613
CC1	26	EA	71.50	1,859
DD	4	EA	66.00	264
FF	1	EA	110.00	110
FF1	2	EA	110.00	220
FF2	12	EA	110.00	1,320
FF3	6	EA	110.00	660
FF4	16	EA	110.00	1,760
HH	61	EA	137.50	8,388
HH1	4	EA	110.00	440
JJ	14	EA	82.50	1,155
LL	14	EA	55.00	770
?	95	EA	55.00	5,225
?	7	EA	55.00	385
NAX	6	EA	55.00	330
WP	5	EA	55.00	275
EB	11	EA	55.00	605
SL-5	2	EA	110.00	220
SL-7	0	EA	0.00	0
SL-8	13	EA	123.75	1,609
SL-9	0	EA	0.00	0
SL-11	8	EA	110.00	880
SL-12	0	EA	0.00	0
SL=13	7	EA	137.50	963
WG-exit wire guard	7	EA	27.50	193
J-surf. j box w/conn. to aisle	46	EA	53.25	2,450
Master switch banks (LV)	3	EA	650.00	1,950
Misc. Ltg Fixture Wiring Devices & Bracket:				
\$	442	EA	49.25	21,769
\$3	42	EA	51.90	2,180
\$K - key oper. sw 1p	34	EA	52.25	1,777
\$K - key oper. sw 1p	16	EA	55.90	894
OS clg occ. sensor	150	EA	60.50	9,075
PP power pack	150	EA	41.25	6,188
OS wall occ sensor	46	EA	44.00	2,024
DS clg daylight sensor	76	EA	60.50	4,598
MC12/2 W/6	23,245	LF	1.45	33,705
MC12/3 W/6	12,000	LF	1.78	21,360
MC12/4 W/6	2,500	LF	2.56	6,400
MC14/2 W/6	3,000	LF	1.35	4,050
\$D	2	EA	205.00	410
SKL - low voltage sw.	18	EA	80.00	1,440
SKL3 - 3 way low voltage sw.	52	EA	83.00	4,316
J	1,500	EA	21.50	32,250
?	3,060	EA	6.50	19,890
?	1,370	EA	13.75	18,838
Pit light	1	EA	155.00	155



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
S12 100W M.H.	1	EA	410.00	410
Theatre Equipment:				
EMT-3/4"C-3#12	850	LF	4.41	3,744
E	4	EA	143.75	575
DR-1 Dimming rack 1	1	EA	2,200.00	2,200
DR-2 Dimming rack 2	1	EA	990.00	990
DS1 - 3 ckt. out. box	1	EA	41.25	41
DS2 - 3 ckt. out. box	1	EA	41.25	41
DF1 - 3 ckt. out. box	1	EA	41.25	41
DF2 - 3 ckt. out. box	1	EA	41.25	41
DF3 - 3 ckt. out. box	1	EA	41.25	41
DF4 - 3 ckt. out. box	1	EA	41.25	41
DMX out - 12"x6"x4"	4	EA	74.00	296
APS plug in station	1	EA	42.50	43
DMX out 12"x18"x6"	3	EA	178.00	534
Tormenter-12"x12"x4"	2	EA	110.50	221
HLC dimmer control station	1	EA	33.00	33
KS Key sw	1	EA	33.00	33
DMX- LPS	1	EA	55.00	55
EMT-1"C-empty	400	LF	4.10	1,640
EMT-3/4"C-empty	1,200	LF	3.25	3,900
Tork winch TS100 conns	2	EA	51.75	104
L12-20P	2	EA	86.25	173
\$L - limit sw up/down	2	EA	71.75	144
Staging/rigging	1	LS	5,490.00	5,490
Receive & store equip	1	LS	1,100.00	1,100
Backstage comm. system conduits	450	LF	5.05	2,273
ED entry station	6	EA	30.25	182
UPS plug-in station	1	EA	36.25	36
?	3	EA	50.25	151
MC-12/3 pigtail	3	EA	52.25	157
KB701 station	3	EA	41.25	124
KB702 equip rack	1	EA	137.50	138
WP-2 clear - com	6	EA	45.75	275
Stat - clear com control	2	EA	45.75	92
EMT-1"C-3#8762 Belden	500	EA	9.05	4,525
EMT-3/4"C-3#8762 Belden	500	EA	4.40	2,200
EMT-3/4"C-3#9729 Belden	960	EA	4.50	4,320

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
EMT-3/4"C-3#8471 Belden	670	EA	4.30	2,881
EMT-3/4"C-3#1583A Belden	250	EA	4.30	1,075
Vest Penn #77291	250	EA	1.80	450
EMT-2 /12"c-42#12	280	EA	23.57	6,600
EMT-1 1/4"c-24#12	90	EA	14.03	1,263
EMT-3/4"C-9#12	550	EA	6.73	3,699
EMT-3/4"6#12	200	EA	5.55	1,110
EMT-3/4"C-3#12	210	EA	4.41	925
Education for Sustainability Sys. (EFS System):				
EFS system quote	1	LS	8,628.00	8,628
32" Touch screen LCD monitor - Dell	2	EA	165.00	330
Curved, flr mtd stand along enclosure, Dell	2	EA	110.00	220
Computer, Dell	2	EA	55.00	110
System software to accommodate real-time data points - Dell	1	EA	220.00	220
Internet connection	1	EA	830.00	830
?	4	EA	64.00	256
MC-12/2	260	LF	1.60	416
CAT 6E cable	2,000	LF	0.73	1,460
Tie-ins to flat pnl mtrs	12	EA	23.10	277
Data Commun. Network Equipment "HP":				
Data Comm. Network Equip. HP - quote	1	LS	254,652.00	254,652
Core	1	EA	1,320.00	1,320
MDF 104K	1	EA	1,100.00	1,100
IDF 124	1	EA	880.00	880
IDF 135	1	EA	880.00	880
IDF 157	1	EA	880.00	880
IDF 163B	1	EA	880.00	880
IDF 208	1	EA	880.00	880
IDF 228	1	EA	880.00	880
IDF 241	1	EA	880.00	880
IDF 308	1	EA	880.00	880
IDF 328	1	EA	880.00	880
IDF 341	1	EA	880.00	880
Press box	1	EA	330.00	330
Mgmt. software	1	LS	440.00	440
Fiber patch cords	32	EA	42.75	1,368
10G-B core router	1	EA	300.00	300
Equip. racks	14	EA	255.00	3,570
Switches	12	EA	27.50	330
Communications Main Grounding System:				
CPI Chats worth 4"wx3/4"dx10'L #10622-010	10	EA	215.00	2,150
Master grd. bar	1	EA	408.25	408
#6 Lug	26	EA	12.20	317
W/C #6 awg bare	750	LF	1.07	803
PVC-4:C-empty	450	LF	4.35	1,958

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Core-4"	24	EA	144.58	3,470
Core-1 1/4"	12	EA	90.83	1,090
IPTV System Installation:				
Library rm 101B rack assembly & jumpers	1	LS	1,880.00	1,880
MDF rm rack assembly & jumpers	1	LS	5,100.00	5,100
RG-11	330	LF	0.95	314
Component connections	20	EA	77.50	1,550
Bulletin brd server	1	EA	2,220.00	2,220
Media deliv. server	1	EA	2,220.00	2,220
UPS units	2	EA	1,610.00	3,220
H decoder	2	EA	1,310.00	2,620
Encoder	14	EA	1,255.00	17,570
IR controller	2	EA	1,110.00	2,220
Tel./Data/AV:				
Structured Cabling	1	LS	363,932.00	363,932
AV System	1	LS	493,742.00	493,742
IT Voice Communication	1	LS	348,636.00	348,636
Included in quote:				
D1-I-RJ45 1G	27	EA		
D2-2-RJ45 1G	98	EA		
D4-4 RJ45 1G	70	EA		
WAP-2-RJ-ER 1G	100	EA		
PH-1-RJ-45 1G	14	EA		
F-FAX-1-RJ45 2G	2	EA		
TIA AV/interface 2G	80	EA		
TBB-6-RJ 45 2G	0	EA		
T4A-AV interface 2G	0	EA		
T4B-5-RJ45 2G	0	EA		
V-3-RJ45 & 1 PROV. 3g	80	EA		
A1-3-RJ 45 1G	70	EA		
A2-4-RJ45	13	EA		
A3-4-RJ45 w/2 ports	3	EA		
C1-Sci lab interface 1G	192	EA		
P1 proj interface wall 2G	1	EA		
P2 proj interface clg 2G	1	EA		
SM4 4 mic jacks 2G	5	EA		
SM8 mic jacks 4G	4	EA		
V2 VID/audio xmtr inter 3G	6	EA		
Lect. hall sm brd 3G	1	EA		
Inter com mic 2G	16	EA		
F bnc, 3 RJ45 3G	1	EA		
T5A teach a/v int 2G	1	EA		
T5B 5-RJ-45 & port 2G	1	EA		
S1 1 RCA spkr jack 1G	2	EA		
S2 2 RCA jack 1G	2	EA		
B1 - 1 RG-6BNC 1G	4	EA		
B2-3 RG-6BNC 1G	8	EA		
B3 2 Pin conn 2G	2	EA		
R2-1-3pin conn 1G	16	EA		

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
R3-1-4pin conn 1G	2	EA		
Conduit & boxes lecture hall	1	LS	2,840.00	2,840
IG b.box w/ 3/4" C stub	6	EA	45.75	275
tV studio misc. conduits, stubs	1	LS	1,460.00	1,460
Press box:misc. work T/D/AV	1	LS	6,440.00	6,440
MDF: misc conduits CT (104k)	1	LS	2,740.00	2,740
IDF: 124,135,157,163B,241,208,228,306,328,341	1	LS	14,100.00	14,100
Control rm misc. couduits;studs	1	LS	690.00	690
A	5	EA	357.50	1,788
D	4	EA	357.50	1,430
M	1	EA	357.50	358
FPI	2	EA	61.25	123
CT-12'0"x4'dx12"w	1	EA	205.00	205
Cable tray supports	4	EA	29.00	116
Auditorium boxes & conduits	1	LS	23,800.00	23,800
Gym track 2" conduits	1	LS	1,985.00	1,985
Gym track wireless antenna	1	LS	1,030.00	1,030
Floor core 4"	21	EA	161.31	3,388
PVC-3"C-empty IDF 157-163	190	LF	3.48	660
Smart Boards/Interactive White Boards:				
Smart boards/interactive white boards - Quote:	1	LS	448,360.00	448,360
Included in quote:				
IWB 8)" #8851X	70	EA		
IWB 6" #6851X	10	EA		
Smartboard interface - 2 GANG box w/ 1/4"C to T1 & 1 1/4"C to V	80	EA	95.75	7,660
Intrusion Alarm system/Card Access:				
Intrusion alarm sys/card access - Quote	1	LS	204,949.00	204,949
Included in quote:				
Control pnl	1	EA		
Intercom control pnl wire & tie in	1	EA		
Access ctl pnl wire & tie in	1	EA		
PB panic button	5	EA		
KB knox box	1	EA		
DC Door contact	168	EA		
MO motion sensor	110	EA		
KP key pad	8	EA		
S1 door siren	9	EA		
OH o/H door contact sys	5	EA		
RH roof hatch contact sys	2	EA		
Printer	1	EA		
Power supply	1	EA		
Central station reporting	1	LS		
Proxy card reader	51	EA		
Elec. hinge		EA		
Elec lever set		EA		
PS power supply	45	EA		

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Video entry control sta VCS	4	EA		
Video A1 phone entry system VES	1	EA		
18/6 sh		LF		
22/4 sh		LF		
22/2 sh		LF		
16/2 un sh		LF		
Pushbutton actuator	8	EA		
BB motions	110	EA	25.25	2,778
BB KP's etc	179	EA	25.25	4,520
Public Address System:				
Public address system - Quote	1	LS	238,464.00	238,464
Included in quote:				
SPWP R - press box mts	3	EA		
SpWPR pole mtd spkrs	6	EA		
PVC-1"C-Belden 3/C spkr cable	600	EA		
SP	416	EA		
SPR +	344	EA		
ES	16	EA		
FS flush horn wall	6	EA		
A volume attenuator	54	EA		
RE 5 pt w gang custom rate	2	EA		
M 1G 1 pin	18	EA		
M4 2G 4 pin	6	EA		
M6 3G 6 pin	9	EA		
M8 4G 8 pin	4	EA		
HM hanging microphone	9	EA		
C-M master clock	1	EA		
C - 16: clock	122	EA		
BB back box w/pigtail	122	EA	29.10	3,550
JB WP 12"x12"x4" @ press box	1	EA	95.00	95
Misc.	1	LS	10.00	10
CCTV System:				
CCTV system - Quote	1	LS	315,783.00	315,783
Included in quote:				
CC07 ext. fixed pole w/hsg, IR floor & htr	3	EA		
CC06 ext. press box - wall	1	EA		
CC05 ext pole mt w/Irhsg hfr	6	EA		
PSWP ext brkt mt 24v ps	10	EA		
Pole mount camera brkt	9	EA		
Wall mount camera brkt	1	EA		
CC01	48	EA		
CC02	14	EA		
CC03	29	EA		
CC04	69	EA		
CC08	5	EA		
UPS	1	EA		
Network video recorder rack w/all head end equip	1	LS		
Site camera fiber optic cable	4,500	LF		
FOB-OSP @ site fiber dist. box	4	EA		
Fiber splice enclosure	4	EA		

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
J-4"/16" sq flush b.box	157	EA	28.10	4,412
				-----
				6,871,117
<b>TOTAL D50 - ELECTRICAL</b>	<b>\$32.18 /SF</b>			<b>6,871,117</b>

**E. EQUIPMENT & FURNISHINGS**

**E10 - EQUIPMENT**

E1010 COMMERCIAL EQUIPMENT

115213 PROJECTION SCREENS

Manual Screen:

Wood shop	1	EA	950.00	950
Projection Screen - Elec. Op.: Auditorium (20'x15')	1	EA	10,000.00	10,000
Lecture hall (12'x7')	1	EA	7,500.00	7,500
Student dining (14'x10-6")		NIC		

115700 VOCATIONAL SHOP EQUIPMENT

Kiln		NIC		
Metal & wood shop equipment - allow	1	LS	25,000.00	25,000
CAD & graphics lab equipment - allow	1	LS	25,000.00	25,000
Wood shop - allow	1	LS	25,000.00	25,000
Library shelving & equipment		NIC		

113100 APPLIANCES

Appliances:

Kitchen Appliance:

Washer			w/Kitchen Equipment	
Dryer			w/Kitchen Equipment	

Health Suite & Trainers Room:

Under counter ice cube machine	2	EA	650.00	1,300
Refrigerator	2	EA	900.00	1,800
Refrigerator - under -counter	1	EA	750.00	750
Washer	1	EA	550.00	550
Dryer	1	EA	550.00	550

Staff Break Room:

Refrigerator full size - allow	10	EA	900.00	9,000
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Life Skills Classroom (3 EA):

Refrigerator - under -counter	3	EA	750.00	2,250
Dishwasher - under -counter		NIC		
Refrigerator	3	EA	900.00	2,700
Washer	3	EA	550.00	1,650
Dryer	3	EA	550.00	1,650

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Wall oven	3	EA	1,200.00	3,600
Range hood	3	EA	350.00	1,050
Electric cook top	3	EA	550.00	1,650
Laboratory Appliances:				
Refrigerator - under -counter	3	EA	750.00	2,250
Refrigerator - full size	2	EA	1,100.00	2,200
Dishwasher - under -counter	6	EA	500.00	3,000
116100 THEATRE EQUIPMENT				
Theater equipment - allow	1	LS	394,500.00	394,500
114000 FOOD SERVICE EQUIPMENT				
Food service equipment - allow	1	LS	400,000.00	400,000
116623 GYMNASIUM EQUIPMENT				
Athletic Equipment:				
Type 1 wall padding - 6' high	1,422	SF	12.00	17,064
Type 2 wall padding - 6' high	120	SF	12.00	1,440
Elec. mat hoist	2	EA	7,500.00	15,000
Volleyball sleeves	1	LS	1,500.00	1,500
116624 BASKETBALL GYM EQUIPMENT				
Basketball backstop - elec. op.	9	EA	9,500.00	85,500
116653 GYMNASIUM DIVIDERS				
Gym divider (4 EA)	7,448	SF	17.00	126,616
116623 GYMNASIUM EQUIPMENT				
Fitness rm mirror	216	SF	18.00	3,888
Science Lab Equipment - Allow:				
115313 LABORATORY FUME HOODS				
Lab fume hood	3	EA	7,750.00	23,250
115300 LABORATORY EQUIPMENT				
Water distiller	5	EA	1,200.00	6,000
Acid storage cabinets	5	EA	1,000.00	5,000
Autoclave sterilizer	2	EA	4,500.00	9,000
Stream table	1	EA	1,500.00	1,500
Incubator	2	EA	2,000.00	4,000
Gas chromatograph	1	EA	10,000.00	10,000
Flammable material storage cab.	5	EA	2,500.00	12,500
Safety glasses monitor case	5	EA	1,000.00	5,000
Glassware pegboards	5	EA	350.00	1,750
Science rm sink and faucet	75	EA	825.00	61,875
111300 LOADING DOCK EQUIPMENT				
Dock bumpers (6 EA)	1	LS	2,500.00	2,500
Rubber corner guards allow	1	LS	2,500.00	2,500

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				1,319,783
<b>TOTAL E10 - EQUIPMENT</b>				<b>1,319,783</b>

**E20 - FURNISHINGS**

E 2010 FIXED FURNISHINGS

124813 ENTRANCE FLOOR MATS & FRAMES

Recessed entrance mat (22 EA)	1,442	SF	32.00	46,144
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126100 FIXED AUDIENCE SEATING

Auditorium seat - fixed - allow	735	EA	225.00	165,375
Aisle light premium	100	EA	45.00	4,500
Lecture hall seat - allow	100	EA	175.00	17,500

122400 WINDOW SHADES

Ext. window shades	12,000	SF	4.75	57,000
Black out shade science rms	1	LS	5,000.00	5,000

126613 TELESCOPING BLEACHERS

Telescoping gym bleachers	690	SEAT	100.00	69,000
Bleacher custom paint premium	1	LS	10,000.00	10,000

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374,519

E2020 MOVABLE FURNISHINGS

NIC

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0

<b>TOTAL E20 - FURNISHINGS</b>				<b>374,519</b>
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**G. BUILDING SITEWORK**

**G10 - SITE PREPARATION**

G1010 SITE CLEARING

310000 EARTHWORK

Sawcut pavement	1,500	SF	7.25	10,875
Clear and grub	1	LS	15,000.00	15,000
Erosion control	6,500	LF	3.85	25,025
Construction fence	15,000	LF	10.25	153,750
Construction entrance	10	EA	2,500.00	25,000
Visual barriers	8,500	LF	2.80	23,800



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Silt stack protection	10	EA	50.00	500
Tree protection	10	EA	225.00	2,250
Strip and Stack Top Soil	15,000	CY	3.85	57,750
Misc. site preparation	1	LS	10,000.00	10,000
				-----
				323,950

G1020 SITE DEMOLITION & RELOCATIONS

024100 SITE DEMOLITION

Site Demolition - Remove & Stockpile:

Baseball field sign		By Owner		
Baseball bleachers		By Owner		
Tennis court bleachers		By Owner		
Players benches		By Owner		
Stadium lights		By Owner		
Boulder @ drive	46	EA	50.00	2,300
Plymouth St. entry signage	1	LS	200.00	200
Football field scoreboard		By Owner		
Football field storage trailer	2	EA	750.00	1,500
Football field visitor bleacher		By Owner		
Trailer relocation		By Others		

Site Demolition - Remove:

Pavement	215,000	SF	0.48	103,200
Utility line	8,500	LF	15.00	127,500
Sewage disposal sys. (2 loc)	1	LS	30,000.00	30,000
Tennis posts & net	5	EA	100.00	500
Pole	6	EA	120.00	720
Light pole	18	EA	250.00	4,500
Hoop	4	EA	100.00	400
Fence	5,500	LF	2.75	15,125
Tennis court pavement	34,474	SF	0.65	22,408
Underground storage tanks (2 EA)	1	LS	25,000.00	25,000
Area drain	2	EA	150.00	300
Goal post		By Owner		
Track surface	41,000	SF	1.00	41,000
Bleachers and Press box	6,300	SF	8.00	50,400
Skate park equipment	1	LS	1,500.00	1,500
Skate park ret. wall	50	LF	18.00	900
BB field building (1 EA)	650	GSF	8.00	5,200
Concessions bldg	820	GSF	8.00	6,560
Pllice sta. ret. wall	385	LF	12.00	4,620
Misc. Site Demolition	1	LS	15,000.00	15,000
				-----
				458,833

G1030 SITE EARTHWORK

310000 EARTHWORK

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Site cut	48,203	CY	4.90	236,195
Site fill - (on site mat'l)	41,480	CY	4.60	190,808
Dispose of surplus	6,723	CY	10.00	67,230
Site grading	157,394	SY	0.42	66,105
Dewatering - allow	1	LS	10,000.00	10,000
Street cleaning	1	LS	15,000.00	15,000
Soil management	1	LS	20,000.00	20,000
*Preload included w/A1020				
				----- 605,338

G1040 HAZARDOUS WASTE REMEDIATION

Soil classifications		NIC		----- 0
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**TOTAL G10 - SITE PREPARATION 1,388,121**

**G20 - SITE IMPROVEMENTS**

G2010 ROADWAYS

320000 PAVEMENT, CURBING & EDGING

School Lots:

Bituminous drive/parking	26,445	SY	26.00	687,570
Street patch @ water service (2 LOC)	52	SY	30.00	1,560
Grasscrete maintenance access rd	2,500	SF	7.75	19,375
12" Gravel base - reuse preload	8,925	CY	10.00	89,250
Concrete curb straight	12,760	LF	16.25	207,350
Concrete curb radius	2,560	LF	19.75	50,560
HC pavement markings	20	EA	65.00	1,300
Directional arrows	30	EA	55.00	1,650
Parking striping	5,500	LF	1.00	5,500
Painted crosswalk	6,700	SF	2.00	13,400
Bus /Fire lane striping	1	LS	1,000.00	1,000

323100 SITE IMPROVEMENTS

Parking/Traffic signage	32	EA	165.00	5,280
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320000 PAVEMENT, CURBING & EDGING

Raised Crosswalk (2 EA):

Vehicular conc. base	960	SF	8.00	7,680
Concrete paver w/sand base	960	SF	20.00	19,200
Granite edging	80	LF	40.00	3,200

320000 PAVEMENT, CURBING & EDGING

Police Station and Town Hall Lot:

Bituminous drive - Police and Town Hall	4,131	SY	26.50	109,472
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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>310000 EARTHWORK</b>				
12" Gravel base - reuse preload	1,370	CY	10.00	13,700
<b>320000 PAVEMENT, CURBING &amp; EDGING</b>				
Concrete curb straight	1,378	LF	16.25	22,393
Concrete curb radius	285	LF	19.75	5,629
				-----
				1,265,068
G2020 PARKING LOTS		See G2010		
				-----
				0
<b>G2030 PEDESTRIAN PAVING</b>				
<b>320000 PAVEMENT, CURBING &amp; EDGING</b>				
Courtyard 4" conc. pavement - exp. agg.	6,623	SF	6.25	41,394
Police/town hall 4" conc. pavement	8,264	SF	4.10	33,882
4" Concrete pavement	20,920	SF	4.10	85,772
4" Concrete pavement-exp. agg.-allow	26,700	SF	6.25	166,875
6" ADA ramp - bb field w/thicken edge	1,030	SF	6.00	6,180
Bituminous pathway	4,426	SY	23.50	104,011
Concrete unit paver accent areas	100	SF	30.00	3,000
ADA detectable paver	33	EA	275.00	9,075
<b>310000 EARTHWORK</b>				
8" Gravel Base:				
8" Gravel @ walk - reuse preload	2,828	CY	10.00	28,280
				-----
				478,469
<b>G2040 SITE DEVELOPMENT</b>				
<b>Tennis Court ( 5EA):</b>				
<b>320000 PAVEMENT, CURBING &amp; EDGING</b>				
Tennis court pavement	3,343	SY	26.00	86,918
<b>310000 EARTHWORK</b>				
12" Gravel base - reuse preload	1,114	CY	10.00	11,140
<b>323100 SITE IMPROVEMENTS</b>				
10' C.L. Tennis fence	777	LF	47.00	36,519
Tennis court gates - sgl	6	EA	900.00	5,400
Tennis court gates - dbl	1	EA	1,500.00	1,500
Tennis court benches		N/A		
Tennis court net and post	5	EA	2,900.00	14,500

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Tennis court storage unit (6 EA)	490	SF	50.00	24,500
Lot curb	65	LF	40.00	2,600
Baseball / Soccer Field (1EA):				
Baseball back stop	1	EA	25,000.00	25,000
29' Player bench	2	EA	1,200.00	2,400
21' Bleacher w/conc. foundation	2	EA	4,500.00	9,000
Dugout enclosure (33' x 9')	2	EA	20,000.00	40,000
6' chain link fence	421	LF	33.00	13,893
Sgl chain link gate	2	EA	950.00	1,900
Batting cage -allow	1	LS	7,500.00	7,500
Scoreboard	1	EA	25,000.00	25,000
Infield mix	1	LS	10,000.00	10,000
Sod	W/ Landscaping			
6' Protective wall padding	1,200	SF	12.00	14,400
Bullpen	1	EA	2,500.00	2,500
Softball Field/Little League Field (2EA):				
Softball back stop	2	EA	18,000.00	36,000
29' Player bench	4	EA	1,200.00	4,800
21' Bleacher w/conc. foundation	2	EA	4,500.00	9,000
Dugout enclosure (33' x 9')	2	EA	20,000.00	40,000
4' chain link fence	456	LF	26.00	11,856
Sgl chain link gate	4	EA	950.00	3,800
Protective fence guard	350	LF	2.50	875
Bullpen	1	EA	2,500.00	2,500
Infield mix	1,600	SY	14.00	22,400
Football Field/Track:				
Geotextile fabric @ bleachers	8,950	SF	0.68	6,086
6" Crushed stone @ bleachers	158	CY	34.00	5,372
Football field goal	2	EA	5,000.00	10,000
Pole vault box	1	EA	4,000.00	4,000
TO board	1	EA	3,000.00	3,000
Jumping pit (3EA)	1	LS	10,000.00	10,000
Discus circle w/barrier netting	1	LS	22,000.00	22,000
Shot put circle and cage	1	LS	22,000.00	22,000
Scoreboard	1	EA	25,000.00	25,000
Track fence	1,800	LF	26.00	46,800
C.L. track gate - sgl	2	EA	950.00	1,900
C.L. track gate - dbl	2	EA	1,500.00	3,000
C.L. track gate - slider 12'	1	EA	1,800.00	1,800
Bit track base		w/Alternate		
Polyurethane track surface		w/Alternate		
Loam & seed	15,790	SY	5.50	86,845
033000 CAST IN PLACE CONCRETE				
Concrete Retaining Wall:				
2' radius seat wall		NIC		
2' seat wall outfield	161	LF	180.00	28,980
323100 SITE IMPROVEMENTS				
Fencing:				
Vehicular gate - sgl	4	EA	2,500.00	10,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
6' CL sliding fence lower school drive	1	EA	1,800.00	1,800
6' CL gate - sgl	1	EA	950.00	950
6' CL fence - Bedford Street	664	LF	36.00	23,904
Wood guard rail	488	LF	38.00	18,544
Chain link fence @ ret. wall	423	LF	32.00	13,536
Ornamental fence @ ret. wall	1,163	LF	175.00	203,525
Radius ornamental fence @ ret. wall	601	LF	190.00	114,190
Modular Block Retaining Wall:				
Exist. brick bldg	500	SF	44.00	22,000
West parking area	684	SF	44.00	30,096
Baseball field	12,440	SF	48.00	597,120
Gymnasium sidewalk	1,430	SF	44.00	62,920
Plymouth Street entrance	1,048	SF	44.00	46,112
Drive Entry Sign (2 EA):				
042001 MASONRY*				
Masonry pier	4	EA	4,000.00	16,000
033000 CAST IN PLACE CONCRETE				
Conc. ftg	4	EA	1,200.00	4,800
323100 SITE IMPROVEMENTS				
Wd school sign	2	EA	4,000.00	8,000
Electronic school sign	2	EA	7,500.00	15,000
Misc. Site Improvements:				
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Bollards - allow	20	EA	600.00	12,000
323100 SITE IMPROVEMENTS				
Bike rack	8	EA	1,500.00	12,000
45' Flag pole A w/granite pedestal	1	EA	5,500.00	5,500
30' Flag pole B	3	EA	4,800.00	14,400
Litter/ recycle container	28	EA	950.00	26,600
Dining table w/umbrella	16	EA	2,500.00	40,000
6' Ornamental bench	24	EA	1,600.00	38,400
033000 CAST IN PLACE CONCRETE				
BB field site stair (6 risers)	2	FLT	4,000.00	8,000
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Baseball Field:				
Ramp guardrails	253	LF	175.00	44,275
Stair guardrail	54	LF	175.00	9,450
				-----
				2,141,806

## G2050 LANDSCAPING

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>329000 LANDSCAPING</b>				
<b>Landscape Plan No. 1:</b>				
Trees:				
October Glory Maple (2-2.5" cal)	5	EA	625.00	3,125
Legacy Sugar Maple (2-2.5" cal)	5	EA	625.00	3,125
Gray Birch (10-23' ht)	6	EA	500.00	3,000
American Hornbeam (2-2.5" cal)	9	EA	625.00	5,625
Eastern Redbud (2-2.5" cal)	3	EA	650.00	1,950
Red Cedar Juniper (6-7' ht)	27	EA	350.00	9,450
Sourwood Tree (2-2.5" cal)	3	EA	675.00	2,025
Fastigate Colorado Spruce (7-8' h)	6	EA	290.00	1,740
Vanderwolf's Pyramid Pine (7-8' h)	6	EA	290.00	1,740
White Pine (6-7' ht)	6	EA	275.00	1,650
Sargent Cherry (2-2.5" cal)	3	EA	650.00	1,950
Yoshino Cherry (2-2.5" cal)	10	EA	650.00	6,500
Accolade Elm (2.5-3" cal)	6	EA	650.00	3,900
Sawleaf Zelkova (2-2.5" cal)	2	EA	650.00	1,300
Shrubs:				
Inkberry (15-18")	19	EA	35.00	665
Tamarix Savin Juniper (3 gal)	15	EA	55.00	825
<b>Landscape Plan No. 2:</b>				
Trees:				
October Glory Maple (2-2.5" cal)	3	EA	625.00	1,875
Legacy Sugar Maple (2-2.5" cal)	1	EA	625.00	625
Autumn Brilliance Serviceberry (6-7' ht)	4	EA	350.00	1,400
American Hornbeam (2-2.5" cal)	3	EA	650.00	1,950
Red Cedar Juniper (6-7' ht)	12	EA	350.00	4,200
Sargent Cherry (2-2.5" cal)	16	EA	650.00	10,400
Yoshino Cherry (2-2.5" cal)	16	EA	650.00	10,400
American Elm (2.5-3" cal)	6	EA	675.00	4,050
Accolade Elm (2.5-3" cal)	8	EA	675.00	5,400
Sawleaf Zelkova (2-2.5" cal)	10	EA	625.00	6,250
Shrubs:				
Microbiata (3 gal)	15	EA	70.00	1,050
Highbush Blueberry (2.5-3' ht)	58	EA	50.00	2,900
<b>Entrance Plaza:</b>				
Trees:				
Autumn Brilliance Serviceberry (6-7' ht)	6	EA	625.00	3,750
American Yellowwood (2.5-3" cal)	4	EA	625.00	2,500
Sunburst Honey Locust (3-3.5" cal)	4	EA	650.00	2,600
Ozark Witchhazel (5-6' ht)	7	EA	300.00	2,100
Japanese White Pine (8-10' ht)	1	EA	350.00	350
Sargent Cherry (2-2.5" cal)	4	EA	650.00	2,600
Western Red Cedar (6-7' ht)	7	EA	325.00	2,275
Shrubs:				
Blue Prince Holly (24-30")	2	EA	45.00	90
Blue Princess Holly (24-30")	20	EA	45.00	900
Elite PJM Rhododendron (24-30")	63	EA	38.00	2,394

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Krypidegran (15-18")	54	EA	25.00	1,350
Mohawk Viburnum (3-4' ht)	30	EA	75.00	2,250
<b>Courtyard:</b>				
Trees:				
Heritage Birch (12-14' ht)	2	EA	380.00	760
Yellow Orange Witch Hazel (6-7' ht)	5	EA	325.00	1,625
Hollywood Juniper (7-8' ht)	9	EA	325.00	2,925
Japanese White Pine (8-10' ht)	4	EA	350.00	1,400
Shrubs:				
Bangle Genista (2 gal)	34	EA	36.00	1,224
Blue Pacific Juniper (3 gal)	19	EA	70.00	1,330
Tamarix Savin Juniper (3 gal)	31	EA	70.00	2,170
Dwarf Globe Spruce (15-18")	12	EA	35.00	420
<b>Ground Covers:</b>				
Massachusetts Manzanita (1 gal)	114	EA	18.00	2,052
Karlie Rose Fountain Grass (2 gal)	31	EA	22.00	682
Blue Indian Grass (2 gal)	17	EA	22.00	374
Black Flowered Fountain Grass (2 gal)	56	EA	22.00	1,232
<b>School Parking Lot:</b>				
Trees:				
Gray Birch )10-12' ht)	8	EA	500.00	4,000
Red Cedar Juniper (6-7' ht)	6	EA	350.00	2,100
Shrubs:				
Artic Fire Dogwood (5 gal)	14	EA	125.00	1,750
Dwarf Fothergilla (3 gal)	12	EA	55.00	660
Elite PJM Rhododendron (24-30")	3	EA	65.00	195
Respread/ammend top soil	11,326	CY	9.00	101,934
Rake, seed and fertilize lawn	35,065	SY	1.95	68,377
Rake, seed mix "Type N"	3,950	SY	1.95	7,703
Sod - BB & soccer field	28,940	SY	6.00	173,640
Mulch - allowance	1	LS	25,000.00	25,000
Irrigation system		NIC		
Courtyard:				
Landscape curb -straight (8"x8")	342	LF	17.00	5,814
Landscape curb - radius	139	LF	19.00	2,641
Decorative trench drain grate - 6"	132	LF	125.00	16,500
River stone	23	CY	42.00	966
Geotextile fabric	1,800	SF	0.70	1,260
River stone edging 1/4" stl	400	LF	7.50	3,000
8" Gravel base	31	CY	22.00	682
Tree protection - allow	10	EA	250.00	2,500
Reset boulder	46	EA	50.00	2,300
				-----
				559,444

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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<b>TOTAL G20 - SITE IMPROVEMENTS</b>				<b>4,444,787</b>
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**G30 - SITE MECHANICAL UTILITIES**

G3010 WATER SUPPLY

330000 UTILITIES

12" Bedford St. conn w/gate valve	1	EA	7,500.00	7,500
12" Central St. conn w/gate valve	1	EA	7,500.00	7,500
8" Gate valve	4	EA	1,200.00	4,800
12" Gate valve	4	EA	950.00	3,800
8" CLDI water	1,914	LF	68.00	130,152
12" CLDI	1,311	LF	89.00	116,679
12"x12"x8" Tee	2	EA	300.00	600
12"x8"x8" Tee	1	EA	250.00	250
8" Fire service	45	LF	62.50	2,813
8" Domestic service	45	LF	49.00	2,205
Hydrant	7	EA	1,850.00	12,950
6" Hydrant lateral	127	EA	62.50	7,938
6" Hydrant gate valve & tee	7	EA	1,875.00	13,125
Irrigation wells		w/Alternate		
Stormwater storage tank		w/Plumbing		
Recycled stormwater MH	3	EA	2,500.00	7,500
				-----
				317,811

G3020 SANITARY SEWER

330000 UTILITIES

Core exist. manhole - connection	1	EA	750.00	750
Sanitary manhole w/site connection	1	EA	3,000.00	3,000
Forced main pump	1	EA	15,000.00	15,000
Brick bldg sanitary service 6"	11	LF	50.00	550
Sanitary manhole	10	EA	2,500.00	25,000
4" DI vent	161	LF	45.00	7,245
4" SDR FM	510	LF	38.00	19,380
4" SDR	181	LF	38.00	6,878
6" SDR	751	LF	42.00	31,542
8" SDR	384	LF	44.00	16,896
10" SDR	188	LF	51.00	9,588
Grease trap		w/Plumbing		
Gas interceptor		w/Plumbing		
Industrial waste holding tank		w/Plumbing		
Fire department connection		NIC		
Police department connection		NIC		
Concessions:				
Forced main manhole		w/Alternate		
Forced main pump		w/Alternate		
4" Forced main		w/Alternate		
4" SDR building conn (46LF)		w/Alternate		



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				----- 135,829
<b>G3030 STORM SEWER</b>				
<b>330000 UTILITIES</b>				
Site Drainage :				
Site connection - exist. CB	1	EA	1,000.00	1,000
Site connection - 12" RCP	2	EA	1,000.00	2,000
Area drain/yard drain	19	EA	1,250.00	23,750
Drainage manhole	73	EA	2,250.00	164,250
Catch basin	78	EA	2,250.00	175,500
Trench drain catch basin	3	EA	750.00	2,250
Replace Bedford St. catch basin	2	EA	3,500.00	7,000
Catch basin - dbl	23	EA	3,300.00	75,900
Trench drain @ tennis court	255	LF	32.00	8,160
6" PVC	345	LF	32.00	11,040
8" PVC	26	LF	34.00	884
30" RCP	430	LF	68.00	29,240
6" Underdrain athletic field	1,245	LF	26.50	32,993
Underdrain clean out	12	EA	375.00	4,500
24" RCP	2,586	LF	56.00	144,816
12" RCP	5,895	LF	38.00	224,010
18" RCP	2,616	LF	46.00	120,336
15" RCP	194	LF	42.00	8,148
Water quality structure	3	EA	12,000.00	36,000
Outlet control structure	2	EA	6,000.00	12,000
Hydrodynamic separator	6	EA	12,000.00	72,000
Rip rap @ flared end	14	EA	2,100.00	29,400
Head wall	14	EA	3,500.00	49,000
Rip rap area (1 loc)	1,000	SF	8.00	8,000
Detention Systems:				
#1	4,860	SF	20.00	97,200
#2	5,661	SF	20.00	113,220
				----- 1,452,597
<b>G3060 FUEL DISTRIBUTION</b>				
<b>330000 UTILITIES</b>				
Gas main trenching and backfill	1,067	LF	25.00	26,675
				----- 26,675
<b>TOTAL G30 - SITE MECHANICAL UTILITIES</b>				<b>1,932,912</b>

**G40 - SITE ELECTRICAL UTILITIES**

G4010 ELECTRICAL DISTRIBUTION

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>260000 ELECTRICAL*</b>				
<b>100% NEUTRAL FEEDERS</b>				
<b>PVC UNDERGROUND THREE PHASE</b>				
225 AMP feeder	120	LF	40.00	4,800
1600 AMP feeder	120	LF	385.35	46,242
<b>SPARE OR EMPTY RACEWAYS</b>				
<b>PVC UNDERGROUND</b>				
1"	1,780	LF	3.95	7,031
2"	1,960	LF	8.45	16,562
4"	3,600	LF	17.80	64,080
5"	800	LF	27.55	22,040
<b>GENERATOR SIGNAL - UNDERGROUND</b>				
Annunciator circuits	120	LF	9.40	1,128
<b>GROUNDING</b>				
Ground rod 3/4" x 10'	4	EA	117.00	468
1/0 Bare copper wire	100	LF	3.30	330
<b>DISCONNECT SWITCHES - HEAVY DUTY</b>				
<b>3 POLE - TO 600 VOLTS</b>				
30 AMP NF WP	5	EA	226.00	1,130
<b>WIRING DEVICES</b>				
<b>PVC RACEWAY - UNDERSLAB</b>				
Duplex GFI WP	7	EA	496.00	3,472
Recept/disc SW UG wiring	2,990	EA	5.50	16,445
<b>SECURITY SYSTEM</b>				
CCTV camera power wiring	6,300	LF	4.90	30,870
<b>330000 UTILITIES</b>				
Transformer pad	1	EA	3,000.00	3,000
Generator Pad	1	EA	6,000.00	6,000
Primary ductbank trench and concrete	400	LF	60.00	24,000
Tele comm duct bank	960	LF	65.00	62,400
Manhole	3	EA	5,000.00	15,000
Emergency feed duct bank	125	LF	60.00	7,500
				-----
				332,498
<b>G4020 SITE LIGHTING</b>				
<b>260000 ELECTRICAL*</b>				
<b>LIGHTING FIXTURES</b>				
Site Lighting - Quote	1	LS	490,000.00	490,000
Install:				
SL1	49	EA	479.00	23,471
SL2	29	EA	686.00	19,894

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
SL3	7	EA	350.00	2,450
SL4	12	EA	140.00	1,680
SL6	2	EA	140.00	280
SL9	3	EA	140.00	420
SL10	4	EA	1,000.00	4,000
Site lighting wiring	13,710	LF	6.35	87,059
Football field lighting wiring	9,300	LF	5.15	47,895
Relocate existing poles	6	EA	250.00	1,500
323100 SITE IMPROVEMENTS				
Lighting Fixtures Conc. Footing:				
Drive/parking	68	EA	650.00	44,200
Pedestrian	8	EA	500.00	4,000
Stadium	4	EA	1,500.00	6,000
Tennis Court Lights		N/A		
				----- 732,849

<b>TOTAL G40 - SITE ELECTRICAL UTILITIES</b>	<b>1,065,347</b>
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PROJECT:	East Bridgewater Junior/Senior High School	NO. OF SQ. FT.:	213,544
LOCATION:	East Bridgewater, MA	COST PER SQ. FT.:	\$265.75
CLIENT:	R F Walsh Collaborative Partners		
DATE:	14-Jul-11		
No.:	11010		

SUMMARY

	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
<b>DIVISION 02 - EXISTING CONDITIONS</b>			
022820 ASBESTOS REMEDIATION	0	0%	0.00
024100 SITE DEMOLITION	458,833	1%	2.15
024117 BUILDING DEMOLITION	0	0%	0.00
<b>DIVISION 03 - CONCRETE</b>			
033000 CAST IN PLACE CONCRETE	1,826,668	3%	8.55
<b>DIVISION 04 - MASONRY</b>			
042001 MASONRY*	6,111,204	11%	28.62
044320 STONE MASONRY**	0	0%	0.00
<b>DIVISION 05 - METALS</b>			
050001 MISCELLANEOUS & ORNAMENTAL IRON*	1,010,125	2%	4.73
051200 STRUCTURAL STEEL FRAMING	3,612,224	6%	16.92
053100 STEEL DECKING	680,244	1%	3.19
054000 COLD FORMED METAL FRAMING	569,571	1%	2.67
<b>DIVISION 06 - WOOD, PLASTICS &amp; COMPOSITES</b>			
061000 ROUGH CARPENTRY	479,667	1%	2.25
062000 FINISH CARPENTRY	716,429	1%	3.35
064000 ARCHITECTURAL WOODWORK	169,985	0%	0.80
065500 SOLID SURFACING	0	0%	0.00
068200 GLASS-FIBER-REINFORCED PLASTIC	1,003,846	2%	4.70
<b>DIVISION 07 - THERMAL &amp; MOISTURE PROTECTION</b>			
071000 DAMPPROOF., WATERPROOF. & CAULKING*	167,708	0%	0.79
070002 ROOFING AND FLASHING*	1,882,672	3%	8.82
072100 THERMAL INSULATION	819,232	1%	3.84
072420 EXTERIOR FINISH SYSTEM (EFS)	56,292	0%	0.26
072600 VAPOR RETARDERS	49,890	0%	0.23
072726 FLUID-APPLIED AIR BARRIER	54,832	0%	0.26
072733 SPRAYED FOAM INSULATION	0	0%	0.00
074243 COMPOSITE PANELS	0	0%	0.00
075563 VEGETATED ROOF COVERING	0	0%	0.00
078100 APPLIED FIREPROOFING	379,349	1%	1.78
078400 FIRESTOPPING	46,980	0%	0.22
079513 CONSTRUCTION & EXPANSION JOINTS	0	0%	0.00
<b>DIVISION 08 - OPENINGS</b>			
080005 METAL WINDOWS*	1,427,438	3%	6.68
	DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
081113 HOLLOW METAL DOORS AND FRAMES	522,606	1%	2.45
081416 FLUSH WOOD DOORS	0	0%	0.00

083100 ACCESS DOORS AND PANELS	30,000	0%	0.14
083313 COILING COUNTER DOORS	0	0%	0.00
083323 OVERHEAD COILING DOORS	19,800	0%	0.09
083326 OVERHEAD COILING GRILLES	19,240	0%	0.09
083473 SOUND CONTROL DOORS	0	0%	0.00
086300 METAL-FRAMED SKYLIGHTS	62,000	0%	0.29
087100 DOOR HARDWARE	0	0%	0.00
088000 GLAZING*	58,298	0%	0.27
089000 LOUVERS AND VENTS	16,500	0%	0.08
089200 LOUVERED EQUIPMENT ENCLOSURES	245,340	0%	1.15

**DIVISION 09 - FINISHES**

090002 LATHING AND PLASTERING*	2,421,985	4%	11.34
090003 TILE*	457,584	1%	2.14
090006 RESILIENT FLOORING*	557,364	1%	2.61
090009 PAINTING*	459,357	1%	2.15
095100 ACOUSTICAL CEILINGS*	615,902	1%	2.88
096429 WOOD STRIP AND PLANK FLOORING	7,120	0%	0.03
096466 WOOD ATHLETIC FLOORING	223,410	0%	1.05
096733 THIN-FILM EPOXY FLOORING	43,725	0%	0.20
096766 FLUID APPLIED ATHLETIC FLOORING	61,127	0%	0.29
096800 CARPETING	120,680	0%	0.57
098100 ACOUSTICAL INSULATION	0	0%	0.00
098400 ACOUSTIC ROOM COMPONENTS	3,250	0%	0.02
098414 WOOD FIBER ACOUSTICAL PANELS	81,762	0%	0.38

**DIVISION 10 - SPECIALTIES**

101116 MARKERBOARDS	145,592	0%	0.68
101200 DISPLAY CASES	0	0%	0.00
101400 SIGNAGE	92,640	0%	0.43
102113 TOILET COMPARTMENTS	41,750	0%	0.20
102123 CUBICLES	11,550	0%	0.05
102228 FOLDING-PANEL OPERABLE PARTITIONS	51,348	0%	0.24
102813 TOILET ACCESSORIES	50,297	0%	0.24
104400 FIRE PROTECTION SPECIALTIES	39,570	0%	0.19
105113 METAL LOCKERS	344,184	1%	1.61

**DIVISION 11 - EQUIPMENT**

111300 LOADING DOCK EQUIPMENT	5,000	0%	0.02
113100 APPLIANCES	35,950	0%	0.17
114000 FOOD SERVICE EQUIPMENT	400,000	1%	1.87
115213 PROJECTION SCREENS	18,450	0%	0.09
115300 LABORATORY EQUIPMENT	116,625	0%	0.55
115313 LABORATORY FUME HOODS	23,250	0%	0.11
115700 VOCATIONAL SHOP EQUIPMENT	75,000	0%	0.35
116100 THEATRE EQUIPMENT	394,500	1%	1.85

DIVISION	PERCENT	COST
TOTAL	OF PROJECT	PER SF

116623 GYMNASIUM EQUIPMENT	38,892	0%	0.18
116624 BASKETBALL GYM EQUIPMENT	85,500	0%	0.40
116653 GYMNASIUM DIVIDERS	126,616	0%	0.59
116800 PLAY FIELD EQUIPMENT & STRUCTURES	0	0%	0.00
116820 ALUMINUM PORTABLE BLEACHERS	0	0%	0.00

**DIVISION 12 - FURNISHINGS**

122400 WINDOW SHADES	62,000	0%	0.29
1230000 CASEWORK	1,034,860	2%	4.85
124813 ENTRANCE FLOOR MATS & FRAMES	46,144	0%	0.22
126100 FIXED AUDIENCE SEATING	187,375	0%	0.88
126613 TELESCOPING BLEACHERS	79,000	0%	0.37
129200 SITE FURNISHINGS	0	0%	0.00
<b>DIVISION 13 - SPECIAL CONSTRUCTION</b>			
130000 SPECIAL CONSTRUCTION	0	0%	0.00
<b>DIVISION 14 - CONVEYING EQUIPMENT</b>			
142424* HOLELESS HYDRAULIC ELEVATORS	101,250	0%	0.47
<b>DIVISION 21 - FIRE SUPPRESSION</b>			
210000 FIRE SUPPRESSION	856,398	2%	4.01
<b>DIVISION 22 - PLUMBING</b>			
220000 PLUMBING*	2,904,941	5%	13.60
<b>DIVISION 23 - HVAC</b>			
230000 HVAC*	5,891,087	10%	27.59
<b>DIVISION 26 - ELECTRICAL</b>			
260000 ELECTRICAL*	7,764,363	14%	36.36
<b>DIVISION 27 - COMMUNICATIONS</b>			
270000 COMMUNICATIONS	0	0%	0.00
<b>DIVISION 28 - ELECTRONIC SAFETY &amp; SECURITY</b>			
280000 ELECTRONIC SAFETY AND SECURITY	0	0%	0.00
<b>DIVISION 31 - EARTHWORK</b>			
310000 EARTHWORK	1,802,422	3%	8.44
311000 SITE PREPARATION & CLEARING	0	0%	0.00
<b>DIVISION 32 - EXTERIOR IMPROVEMENTS</b>			
320000 PAVEMENT, CURBING & EDGING	1,783,195	3%	8.35
323100 SITE IMPROVEMENTS	1,979,723	3%	9.27
328000 IRRIGATION	0	0%	0.00
	<b>DIVISION TOTAL</b>	<b>PERCENT OF PROJECT</b>	<b>COST PER SF</b>
329000 LANDSCAPING	559,444	1%	2.62
<b>DIVISION 33 - UTILITIES</b>			
330000 UTILITIES	2,050,812	4%	9.60
DIRECT COST	56,749,963	100%	265.75
	\$56,749,963	uni match	
	\$0	delta	

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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DIVISION 02 - EXISTING CONDITIONS

022820 ASBESTOS REMEDIATION

see summary

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024100 SITE DEMOLITION

Site Demolition - Remove & Stockpile:

Baseball field sign		By Owner		
Baseball bleachers		By Owner		
Tennis court bleachers		By Owner		
Players benches		By Owner		
Stadium lights		By Owner		
Boulder @ drive	46	EA	50.00	2,300
Plymouth St. entry signage	1	LS	200.00	200
Football field scoreboard		By Owner		
Football field storage trailer	2	EA	750.00	1,500
Football field visitor bleacher		By Owner		
Trailer relocation		By Others		

Site Demolition - Remove:

Pavement	215,000	SF	0.48	103,200
Utility line	8,500	LF	15.00	127,500
Sewage disposal sys. (2 loc)	1	LS	30,000.00	30,000
Tennis posts & net	5	EA	100.00	500
Pole	6	EA	120.00	720
Light pole	18	EA	250.00	4,500
Hoop	4	EA	100.00	400
Fence	5,500	LF	2.75	15,125
Tennis court pavement	34,474	SF	0.65	22,408
Underground storage tanks (2 EA)	1	LS	25,000.00	25,000
Area drain	2	EA	150.00	300
Goal post		By Owner		
Track surface	41,000	SF	1.00	41,000
Bleachers and Press box	6,300	SF	8.00	50,400
Skate park equipment	1	LS	1,500.00	1,500
Skate park ret. wall	50	LF	18.00	900
BB field building (1 EA)	650	GSF	8.00	5,200
Concessions bldg	820	GSF	8.00	6,560
Plice sta. ret. wall	385	LF	12.00	4,620
Misc. Site Demolition	1	LS	15,000.00	15,000

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458,833

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
024117 BUILDING DEMOLITION				
	see summary			----- 0

DIVISION 03 - CONCRETE

033000 CAST IN PLACE CONCRETE

Foundations:

Column Footing (301 ea)	603	CY	405.00	244,215
Wall Footing 1' x 2' to 3'	364	CY	365.00	132,860
Foundation Wall 1'4" Thick	304	CY	785.00	238,640
Foundation Wall 1'8" Thick	92	CY	865.00	79,580
Foundation Wall 1'-11" Thick	93	CY	865.00	80,445
Foundation wall loading dock	29	CY	700.00	20,300
Thicken slab at CMU	125	CY	185.00	23,125
Pilaster	72	CY	850.00	61,200
Pier at Ext Columns	80	CY	925.00	74,000
Auditorium Interior Foundation Wall 12"	53	CY	625.00	33,125
8" Found wall at CMU	56	CY	550.00	30,800
Pergola col ftg/pier	12	EA	550.00	6,600

Mechanical equip. pads	1	LS	5,000.00	5,000
Elevator mat	8	CY	470.00	3,760
Elevator pit wall	10	CY	620.00	6,200
Mech pits - allow	4	EA	7,500.00	30,000

5" Slab on Grade:

4000 psi, NW, (incl. placement)	1,792	CY	152.00	272,384
6x6 W1.4 X W1.4	116,061	SF	0.94	109,097
Depressed slab edge form @ mat	700	LF	5.00	3,500
Depressed slab edge form @ ket	245	LF	5.00	1,225
Control Joint	2,321	LF	5.25	12,185
Sloped slab premium	1,500	SF	2.00	3,000
Stepped slab premium	1,200	SF	6.00	7,200
Trowel Finish	116,061	SF	1.10	127,667

\*unit cost \$4.62

Lower Aud. Floor:

Cast riser - 6"	142	LFR	42.00	5,964
Cast riser - 12"	291	LFR	65.00	18,915

5" Loading dock slab	700	SF	5.50	3,850
5" Loading dock ramp	300	SF	6.00	1,800
Loading dock stair	27.5	LFT	48.00	1,320



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Floor Construction:				
Formed Riser at Deck:				
Lecture hall tier seating cast 6" riser	259	LFR	45.00	11,655
Auditorium seating cast 6" riser	160	LFR	45.00	7,200
Auditorium seating cast 12" riser	505	LFR	55.00	27,775
Roof Construction				
4" Deck fill @ mech equip. pads	2,660	SF	4.00	10,640
Site Development:				
Concrete Retaining Wall:				
2' radius seat wall		NIC		
2' seat wall outfield	161	LF	180.00	28,980
Drive Entry Sign (2 EA):				
Conc. ftg	4	EA	1,200.00	4,800
BB field site stair (6 risers	2	FLT	4,000.00	8,000
Stair Construction:				
Conc. pan fill	10	EA	1,350.00	13,500
Floor Finishes:				
Moisture Mitigation	106,247	SF	0.50	53,124
Conc. sealer @ carpet	25,596	SF	0.90	23,036
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				1,826,668

DIVISION 04 - MASONRY

042001 MASONRY\*

Gym CMU Partitions:

4" CMU chase wall - one side	7,813	SF	14.50	113,289
8" CMU mech chase wall	2,525	SF	18.50	46,713
Full ht pier w/trim	14	EA	4,630.00	64,820
4" CMU col enclosure -track (30EA)	1,260	SF	24.00	30,240
Running track low wall (16"x2'2")	650	SF	51.00	33,150
4" Veneer @ ext. wall 1st flr	3,579	SF	21.00	75,159

Auditorium:

dbl 8" CMU - 3'h @ seating	147	SF	34.00	4,998
4" CMU veneer @ ramp low wall	331	SF	14.00	4,634
12" CMU	578	SF	20.00	11,560
8" CMU	15,620	SF	18.50	288,970

Library/Media Center:

Perimeter box col.	14	EA	2,500.00	35,000
Center box col.	7	EA	4,000.00	28,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
PE Gym:				
Perimeter box col. - (3 sides 10'6")	10	EA	7,500.00	75,000
Center box col. -( 4 sides 10'6")	3	EA	9,800.00	29,400
4" Veneer @ ext wall 3'	156	SF	20.00	3,120
Corridor/Stair Hall CMU Partitions:				
2/A6.4 - 8" Wing wall @ class entry	463	SF	26.00	12,038
2/A6.4 - 6-8" Pier @ class entry	11,224	SF	24.00	269,376
6" Bulkhead @ stair hall/corridor	509	SF	16.00	8,144
8" Bulkhead @ corridor	1,870	SF	18.00	33,660
8" Bulkhead @ 2HR stair hall	596	SF	18.00	10,728
6" CMU - 5' - 4"h @ 7/A6.41	4,030	SF	16.00	64,480
6" CMU - 3'-4"h @ 12/A6.41	1,665	SF	16.00	26,640
Corridor cmu proj. pier	136	EA	850.00	115,600
Corridor cmu flat pier	30	EA	325.00	9,750
Corridor cmu pier w/trim type 1 & 2	63	EA	900.00	56,700
Typical CMU Partitions:				
4" CMU	4,015	SF	13.00	52,195
6" CMU	27,245	SF	15.00	408,675
8" CMU	58,101	SF	16.50	958,667
6" CMU 2hr	1,547	SF	17.50	27,073
8" CMU 2hr mech/elec	5,453	SF	19.25	104,970
8" CMU elev shaft wall	1,450	SF	19.75	28,638
8" CMU 2 hr stair hall	8,183	SF	17.50	143,203
8" CMU chase ext.stair & locker wall	6,337	SF	20.00	126,740
Exterior Walls:				
Exterior Wall:				
8" CMU backup	17,516	SF	18.75	328,425
4" CMU backup @ gym cols	2,352	SF	23.50	55,272
Exterior Building Veneer:				
Brick veneer	25,850	SF	28.50	736,725
Brick piers	6,500	SF	33.00	214,500
Brick column	2,154	SF	36.00	77,544
Brick soldier course - head	1,485	SF	37.00	54,945
Brick soldier course radial head	525	LF	70.00	36,750
Brick window soldier course	1,223	SF	18.90	23,115
Brick arch	42	LF	200.00	8,400
Soldier course banding	908	LF	18.00	16,344
Ground split face water table (6-8")	9,746	SF	24.00	233,904
Split face veneer (4")	19,510	SF	21.50	419,465
Ground face veneer (4")	1,569	SF	22.00	34,518
Pergola col. base	12	EA	1,500.00	18,000
Staging	1	LS	80,000.00	80,000
Cast Stone Trim:				
Keystone @ windows/doors	193	EA	200.00	38,600
Water table cap	1,425	LF	55.00	78,375

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Pier base cap	628	LF	70.00	43,960
Pier/column base	3,135	SF	65.00	203,775
Pier cap trim	297	LF	90.00	26,730
Column base cap	34	EA	400.00	13,600
Radial window head	67	LF	100.00	6,700
Window jamb	166	LF	55.00	9,130
Rosette window blk	12	EA	425.00	5,100
Masonry flashing	1	LS	30,000.00	30,000
Drive Entry Sign (2 EA): Masonry pier	4	EA	4,000.00	16,000
				----- 6,111,204

044320 STONE MASONRY\*\*

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DIVISION 05 - METALS

050001 MISCELLANEOUS & ORNAMENTAL IRON\*

Exterior Walls:  
Metals:

Radius galv lintel	472	LF	41.00	19,352
Typ. Galv. lintel	2,354	LF	28.00	65,912
24" Galv. plate lintel	22	LF	125.00	2,750
24" Galv. Radius plate lintel	225	LF	225.00	50,625
OH door frame	4	EA	450.00	1,800
Proj. shop signage panel - large (1 EA)	26	LF	500.00	13,000
Shop lettering	60	EA	315.00	18,900
Proj. shop sign panel - small (2 EA)	28	LF	125.00	3,500
Roof: Roof ladder (5 EA)	64	VLF	120.00	7,680
Partitions: Seismic clip @ CMU part. (4' oc)	1,625	EA	85.00	138,125
Loose lintels @ CMU part.	3,750	LF	18.00	67,500

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Fittings:				
Auditorium				
Metal grille (2'9"x7'5") - allow	2	EA	930.00	1,860
Catwalk w/rails & access		NIC		
Guard rail @ stage stair	32	LF	175.00	5,600
Guard rail @ cast aisle stair (26 EA)	52	LF	195.00	10,140
Auditorium:				
Low wall mtl rail supports	92	LF	50.00	4,600
Wall rail @ ramp	90	LF	110.00	9,900
Guardrail @ ramp	50	LF	235.00	11,750
Guardrail post support @ ramp	21	EA	250.00	5,250
Gym equip. & curtain support	1	LS	17,000.00	17,000
Toilet partition support	40	EA	120.00	4,800
Interior Guardrail:				
Mech rm mezzanine guardrail	38	LF	165.00	6,270
Shop mezzanine guardrail	76	LF	195.00	14,820
Shop mezzanine gate 3'w	2	EA	600.00	1,200
Lobby guardrail	66	LF	275.00	18,150
Lobby guardrail post support	2	EA	250.00	500
Lecture hall guardrail	27	LF	330.00	8,910
Lecture hall guardrail post support	4	EA	330.00	1,320
Interior Wall Rail:				
Lecture hall - tiered seating	60	LF	115.00	6,900
Exterior Guardrail:				
Loading dock w/stair (1 flt)	21	LF	190.00	3,990
Loading dock ramp	108	LF	220.00	23,760
Loading dock ramp gate dbl	1	EA	1,500.00	1,500
Counter supports	1	LS	7,500.00	7,500
TV studio curtain support rails (73 LF)	1	LS	7,500.00	7,500
Expansion jt assemblies	1	LS	50,000.00	50,000
Misc. metals	213,544	GSF	0.25	53,386
Roof Construction:				
Angle at roof edges	18.5	TONS	2,800.00	51,800
Site Development:				
Bollards - allow	20	EA	600.00	12,000
Baseball Field:				
Ramp guardrails	253	LF	175.00	44,275
Stair guardrail	54	LF	175.00	9,450
Elevators:				
Elevator:				
Pit ladder	1	EA	1,100.00	1,100
Frame	1	EA	3,500.00	3,500

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Sump grate	1	EA	610.00	610
Stair Construction:				
Metal Pan Stair w/Rails:				
Monumental	2	FLT	40,000.00	80,000
Switchback	7	FLT	18,500.00	129,500
Wall ladder-roof access (1 EA)	14	VLF	125.00	1,750
Ships ladder - roof access (1 EA)	14	VLF	125.00	1,750
Straight - shop		N/A		
Straight - mech rm	1	FLT	7,500.00	7,500
Ceilings:				
Misc. metal clg hanger - sci rm	76	LF	15.00	1,140
*Includes Sections 055000 and 055100				-----
				1,010,125

## 051200 STRUCTURAL STEEL FRAMING

Floor:				
Wide Flange Beam	393	TONS	2,550.00	1,002,150
Wide Flange Beam - bent beam	8.3	TONS	2,950.00	24,485
Wide Flange Column	55.6	TONS	2,550.00	141,780
HSS Beam	16.8	TONS	2,875.00	48,300
HSS Column	148.2	TONS	2,700.00	400,032
HSS Brace Frame	36.18	TONS	2,775.00	100,400
Shear stud	14,000	EA	5.50	77,000
Moment connection	75	EA	725.00	54,375
Steel grating	458	SF	65.00	29,770
3 1/4 LW conc deck fill	101,552	SF	3.35	340,199
Ceiling:				
Café pergola frame	263	SF	15.00	3,945
Roof:				
Wide Flange Beam	263	TONS	2,550.00	670,650
Wide Flange Beam - bent beam	8.3	TONS	2,950.00	24,485
Wide Flange Column	13.9	TONS	2,550.00	35,445
HSS Beam	11.1	TONS	2,875.00	31,913
HSS Column	37.0	TONS	2,875.00	106,490
HSS Brace Frame	24.12	TONS	2,775.00	66,933
Angle Brace Frame	3.2	TONS	3,100.00	9,920
Pergola post	12	EA	275.00	3,300
GFRT roof rail support	1	LS	5,000.00	5,000
Bar Joist	2	TONS	2,500.00	5,000
Trusses ( 100 lbs/lf):				
Truss A - 498 lf	25	TONS	2,350.00	119,850
Truss B1-4 - 437 lf	22	TONS	2,350.00	31,843

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Truss C - 161 lf	81	TONS	2,350.00	76,375
Truss D - 360 lf	18	TONS	2,350.00	27,965
Truss E - 153 lf	8	TONS	2,350.00	14,100
Galv. RTU dunnage - allow	10	TONS	3,550.00	35,500
Galv. TS Roof screen support (5 lbs/sf)	19.9	TONS	3,550.00	70,645
Moment connection	75	EA	725.00	54,375
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				3,612,224

053100 STEEL DECKING

Floor:

Metal Floor Deck:

2", 20 Ga floor deck track	5,982	SF	2.22	13,280
3", 18 Ga floor deck	93,489	SF	2.68	250,551
3", 18 Ga floor deck aud. seating	2,081	SF	4.50	9,365
3", 18 Ga floor deck lecture hall seating	940	SF	4.50	4,230

Roof:

Metal Roof Deck:

1 1/2", 20 Ga deck - shingle	8,860	SF	2.18	19,315
3", 20 Ga deck - typ	87,067	SF	2.34	203,737
3" 20/20 Ga acoustic deck - aud. (NIC stage)	9,090	SF	6.20	56,358
3" 20/18 Ga acoustic deck - gym	16,263	SF	6.10	99,204
3" 20/18 Ga acoustic deck - café	3,000	SF	6.10	18,300
2", 20 Ga. deck - mech equip. pads	2,660	SF	2.22	5,905

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680,244

054000 COLD FORMED METAL FRAMING

Exterior Walls:

Ext. Wall Frame:

6" Ext. wall frame - gable end	191	SF	5.35	1,022
6" Ext. wall frame - boxed col	700	SF	9.00	6,300
8" Ext. wall frame - typ	56,573	SF	7.45	421,469
8" & 4" Ext. wall frame - chase	2,583	SF	6.50	16,790
8" Gym parapet frame (12" h)	485	SF	7.00	3,395
Skylight curb frame (30" h)	360	SF	7.75	2,790

Ext. Ceiling/Soffit Frame:

Framing - covered entry clg	3,805	SF	6.50	24,733
Framing - entry boxed beam	1,214	SF	6.50	7,891
Framing - gyp soffits	450	SF	6.50	2,925

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Framing - overhang	2,331	SF	6.50	15,152
Roof fascia frame - 18"	8,206	SF	6.75	55,391
Fittings:				
Interior Roof - Shop, Media Ctr, Corridors:				
Roof frame	781	SF	15.00	11,715
*Includes Section 054400				
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				569,571

DIVISION 06 - WOOD, PLASTICS & COMPOSITES

061000 ROUGH CARPENTRY

Carpentry:				
1/2" Dens glass sheathing	80,310	SF	2.42	194,350
1/2" Gyp int of gym BU	3,000	SF	1.85	5,550
1/2" PT ply wall sheathing (GFRC)	8,206	SF	1.78	14,607
3/4" PT ply wall sheathing (GFRC)	8,206	SF	1.90	15,591
Ext. wall blocking W wind/cw	8,900	LF	4.75	42,275
GFR col blocking	623	VLF	7.00	4,361
Ext. Ceiling/Soffit				
1/2 & 3/4" PT ply	4,888	SF	2.05	10,020
Roofing:				
Roof Blocking:				
Flat roof edge	3,832	LF	16.50	63,228
Gym parapet blocking	485	LF	8.00	3,880
Sloped roof edge	513	LF	24.00	12,312
Exp. jt	300	LF	10.00	3,000
Fittings:				
Rough Carpentry:				
Interior blocking	213,544	GSF	0.25	53,386
Misc. rough carpentry	213,544	GSF	0.25	53,386
Stair Construction:				
Auditorium wd. stage stair frame (2 flt)	60	LFR	62.00	3,720
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				479,667

062000 FINISH CARPENTRY

Exterior Walls:				
Flush wood shop sign panel	10	LF	125.00	1,250

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
PVC pergola (2' frame)	483	SF	16.00	7,728
Interior Doors:				
Wood Frame Interior Window (Media Ctr):				
Windows frame (15 EA)	258	SF	33.00	8,514
Auditorium Wood Trim:				
Sound reflector (2 EA) A 10.17	220	SF	95.00	20,900
Entry door surround (dbl - 2 sides)	8	EA	2,100.00	16,800
Control rm window surround	1	EA	1,800.00	1,800
Proscenium trim	850	SF	23.00	19,550
Wainscot/stage front wall panel	486	SF	55.00	26,730
Column 18" panel	730	SF	50.00	36,500
Wood base	150	LF	9.00	1,350
Ceiling trim - applied	1,325	LF	22.00	29,150
Misc. running trim (clg/wall)	1	LS	15,000.00	15,000
Library Wood Trim:				
Office surround & roof trim	1	LS	8,500.00	8,500
Entry/faux entry surround	3	EA	7,000.00	21,000
Int. window/tack bd trim	14	EA	1,400.00	19,600
Ext. window trim - G	6	EA	4,800.00	28,800
Ext. window trim - typ	3	EA	1,700.00	5,100
Raised panel @ false window	6	EA	2,450.00	14,700
Upper pier - ext wall	18	EA	1,600.00	28,800
Upper pier - center	6	EA	3,100.00	18,600
Misc. applied running trim	220	LF	24.00	5,280
Metal & Wood Shop:				
Int. Dr/Window header (7 EA)	39	LF	60.00	2,340
False window surround	2	EA	1,400.00	2,800
Acoustical panel trim	92	LF	28.00	2,576
PE Gym Wood Trim:				
Entry door surround	1	EA	3,500.00	3,500
Perimeter box col. (3 side - 13'6")	7	EA	1,600.00	11,200
Center box col (4 side - 13'6")	2	EA	3,100.00	6,200
Raised panel (3'6"h)	193	SF	55.00	10,615
Wainscot wall cap	100	LF	9.50	950
Misc. interior trim	1	LS	7,500.00	7,500
Gym Wood Trim:				
Window (E) head trim	154	LF	60.00	9,240
Rail molding (low wall) 4/A8.11	285	LF	28.00	7,980
Guardrail molding 5/A8.11	60	LF	26.00	1,560
Radius guardrail molding/panel 3/A8.12	48	LF	145.00	6,960
Misc. wood trim	1	LS	10,000.00	10,000
Café:				
Tile wall cap	224	LF	12.00	2,688
Ext. door surround	2	EA	2,500.00	5,000
Entry door surround	1	EA	2,500.00	2,500



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Interior trim	1	LS	2,500.00	2,500
Lecture Hall:				
Column 18" panel	174	SF	50.00	8,700
Misc. interior trim	1	LS	2,500.00	2,500
Band/Chorus:				
Column 18" panel	7	EA	775.00	5,425
Misc. interior trim	1	LS	10,000.00	10,000
Interior Wood Trim:				
Corridor pier cornice cap		W/ masonry		
Corridor wainscot wall cap	917	LF	9.50	8,712
Main entry surround	3	EA	5,000.00	15,000
Stair # 1 door surround	3	FLRS	5,000.00	15,000
Main lobby applied wall trim	400	LF	10.00	4,000
Gym lobby raised panel	288	SF	55.00	15,840
Adj. wall mtd shelving	1	LS	15,000.00	15,000
Storage and closet shelving	1	LS	10,000.00	10,000
Central admin. Wd window & wall trim - all	1	LS	5,000.00	5,000
Auditorium				
Low wall wd rail and cap	92	LF	145.00	13,340
Gymnasium:				
Track rail @ wall cap	285	LF	165.00	47,025
Track guard rail & base	60	LF	330.00	19,800
Radius track guard rail & base	48	LF	440.00	21,120
Fittings:				
3/4" Hardwood Window Trim:				
Window sill	2,044	LF	12.50	25,550
Interior Roof - Shop, Media Ctr, Corridors:				
Roof deck & trim	781	SF	10.00	7,810
Stair Finishes:				
Wood tread - stage	60	LF	62.00	3,720
Floor Finishes:				
Stage nosing	131	LF	8.00	1,048
Stage vented wall base	150	LF	6.00	900
Laminated wood flooring - stage	2,300	SF	7.00	16,100
Ceilings:				
Café pergola (2x4 wd frame)	263	SF	6.00	1,578
Applied molding lobby clg	750	LF	12.00	9,000
Applied radius molding stair #1	1	LS	2,500.00	2,500
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				716,429

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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064000 ARCHITECTURAL WOODWORK

Solid Surface Counter/Casework:

Recycling center - café	24	LF	245.00	5,880
Recycling center - corridor (8 EA)	36	LF	245.00	8,820
Chair rail - allow	1	LS	5,000.00	5,000

Fittings:

Custom Casework:

Library circulation desk	24	LF	875.00	21,000
Library comp desk (3 EA)	63	LF	400.00	25,200
Library low shelving	116	LF	235.00	27,260
Library full ht shelving	97	LF	475.00	46,075
Library col. base comp sta(4' x4')	2	EA	550.00	1,100
Administration office desk - front	17.5	LF	450.00	7,875
Administration office desk - rear	17.5	LF	450.00	7,875
Administration mail box	1	LS	7,500.00	7,500
Administration desk gate - sgl	2	EA	1,200.00	2,400
Vestibule wood bench (1 EA)	10	LF	400.00	4,000

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169,985

065500 SOLID SURFACING

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068200 GLASS-FIBER-REINFORCED PLASTIC

GFRP Cornice:

Gym cornice	439	LF	95.00	41,705
Upper cornice	2,694	LF	100.00	269,400
Lower cornice	594	LF	100.00	59,400
Porch/porche	376	LF	115.00	43,240

GFRP - Ext. Cols:

21' Full column	6	EA	6,800.00	40,800
21' Half column	2	EA	5,900.00	11,800
14' Full column	9	EA	3,850.00	34,650
12' Three Qtr column	1	EA	3,600.00	3,600
12' Half Qtr column	3	EA	2,600.00	7,800
9' 4" Full column	4	EA	2,500.00	10,000
9' 4" Three Qtr column	4	EA	2,200.00	8,800
9' 4" Half column	17	EA	1,800.00	30,600

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
8' Full column	6	EA	1,650.00	9,900
8" Full column pergola	12	EA	1,300.00	15,600
GFRP Door & Window Head/Surround:				
Dbl dr surround	2	EA	1,200.00	2,400
Gym arcade arch	129	LF	125.00	16,125
Roof rake main entry	40	LF	110.00	4,400
Roof rake gym	72	LF	55.00	3,960
Pediment cornice	61	LF	130.00	7,930
Pediment gable panel main entry & gym	200	SF	44.00	8,800
Faux window @ gable main entry	1	EA	1,200.00	1,200
Raised panel	1,168	SF	48.00	56,064
Window head straight	44	LF	95.00	4,180
Window head rake	26	LF	110.00	2,860
Window gable	4	SF	50.00	200
Window head cornice - small	29	LF	90.00	2,610
Window head cornice - large	144	LF	130.00	18,720
Window head cornice - small	29	LF	90.00	2,610
Dormer trim	5	EA	90.00	450
Guard Rail:				
Post	50	EA	760.00	38,000
Rail and balustrade	388	LF	280.00	108,640
Covered Entry GFR Trim:				
Coffered ceiling panel @ entry	1,461	SF	65.60	95,842
Box beam w/dentil trim 1' 9"	79	LF	375.00	29,625
Box beam 1' 4"	217	LF	55.00	11,935
				-----
				1,003,846

DIVISION 07 - THERMAL & MOISTURE PROTECTION

071000 DAMPPROOF., WATERPROOF. & CAULKING\*

Standard Foundation:

Thermal and Moisture:

Dampproof frost wall	8,020	SF	1.65	13,233
Elev. pit waterproofing	1	EA	3,650.00	3,650
Mech. pit wpg - allow	1	LS	2,500.00	2,500

Exterior Windows:

Window/Dr perim -sealant	8,900	LF	4.65	41,385
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Fittings:

Int. joint sealants window/doors	9,200	LF	3.50	32,200
Int. joint sealants	213,544	GSF	0.35	74,740

\*Includes 071613 and 079200

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				167,708
070002 ROOFING AND FLASHING*				
Asphalt Shingle Roof System:				
Asphalt shingle	8,860	SF	3.25	28,795
Protection membrane	8,860	SF	1.35	11,961
Ridge vent	137	LF	11.00	1,507
Polyvinyl Chloride Roof System:				
2x3 Walk boards - allow	1,000	EA	36.00	36,000
Memb. recovery bd, 6" insul & VB	118,080	SF	11.65	1,375,632
Tapered roof insul cricket	10,000	SF	6.00	60,000
Vegetated roof sys. Premium		Alternate 7		
Precast roof paver premium		Alternate 7		
Skylight curb flashing/membrane - 30"	360	SF	24.00	8,640
Membrane flashing	1	LS	30,000.00	30,000
Alum. Sheet Metal Flashing and Trim:				
Mansard cap	393	LF	22.00	8,646
PVC/asphalt transition	123	LF	6.00	738
Vented nailable comp. insul panels	8,860	SF	5.05	44,743
Snow guard tab	348	EA	22.00	7,656
Drip/fascia custom color	513	LF	15.00	7,695
Step flashing/cornice flash	68	LF	38.00	2,584
Typ roof edge	3,832	LF	16.00	61,312
Base flashing	1,690	LF	32.00	54,080
Gravel stop @ elev PH	43	LF	16.00	688
Exp. jt - allow	300	LF	44.00	13,200
Dormer flashing	5	EA	350.00	1,750
Roof Accessories:				
Continuous roof guard rail	517	LF	135.00	69,795
Roof guard rail support	52	EA	50.00	2,600
Stage vent	2	EA	4,500.00	9,000
Elev. penthouse w/louver	1	EA	750.00	750
Cupola roofing & flashing	1	EA	40,000.00	40,000
Roof access hatch - allow	2	EA	2,450.00	4,900
Includes Sections 073113, 075419, 076200, 077100 and 077200				-----
				1,882,672

072100 THERMAL INSULATION

Standard Foundation:				
2" Rigid ext. found. insul w/prot.bd	8,020	SF	2.68	21,494

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Slab on Grade:				
2" Rigid Slab Insul.	116,061	SF	2.45	284,349
Exterior Walls:				
1 1/2 Spray wall insul	59,156	SF	2.10	124,228
Ext. wall fluid applied air barrier	79,575	SF	2.44	194,163
2" Rigid wall insul	79,575	SF	2.30	183,023
2" Rigid insul @ soffit	4,888	SF	2.45	11,976
				-----
				819,232
072420 EXTERIOR FINISH SYSTEM (EFS)				
Exterior Walls:				
Exterior Finish System:				
EFS ceiling	2,356	SF	19.50	45,942
EFS soffit	300	SF	22.00	6,600
EFS radius soffit	150	SF	25.00	3,750
				-----
				56,292
072600 VAPOR RETARDERS				
Slab on Grade:				
15 Mil poly - stego wrap	116,061	SF	0.42	48,746
Floor Finishes:				
Vapoer barrier - stage flr	3,012	SF	0.38	1,145
				-----
				49,890
072726 FLUID-APPLIED AIR BARRIER				
Exterior Walls:				
Ext. soffit/clg fluid applied air barrier	4,888	SF	2.66	13,002
Window/Dr perim -self adhering memb.	8,900	LF	4.70	41,830
				-----
				54,832
072733 SPRAYED FOAM INSULATION				
				0

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				----- 0
074243 COMPOSITE PANELS				0 0 ----- 0
075563 VEGETATED ROOF COVERING				0 0 0 0 ----- 0
078100 APPLIED FIREPROOFING				
Floor:				
Fireproofing:				
Floor - structural steel	101,552	GSF	1.95	198,026
Roof:				
Fireproofing:				
Roof - steel and deck	86,344	GSF	2.10	181,322
				----- 379,349
078400 FIRESTOPPING				
Fittings:				
Firestopping	213,544	GSF	0.22	46,980
				----- 46,980
079513 CONSTRUCTION & EXPANSION JOINTS				0 0

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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DIVISION 08 - OPENINGS

080005 METAL WINDOWS\*

Exterior Windows:

Glazed alum. curtain wall	1,933	SF	86.00	166,238
Glazed alum. curtain wall - rad. top	327	SF	88.00	28,776
Alum. windows	13,255	SF	64.00	848,320
Alum windows - rad top	502	SF	80.00	40,160
Alum window - cupola (8 EA)	64	SF	85.00	5,440

Exterior Doors:

Exterior Alum-Framed Storefronts/Entries:

Storefront	949	SF	68.00	64,532
Alum. dr - sgl	12	EA	3,800.00	45,600
Alum. dr - dbl	17	EA	6,200.00	105,400

Partitions:

Interior Framed Storefront/Entries (Glass & Glazing):

Radius top storefront frame		N/A		
Typ storefront	595	SF	68.00	40,460
Vest. window B&N	120	SF	68.00	8,160
Vest. radius window N	14	SF	68.00	952

Interior Doors:

Aluminum Door, Frame, Glass, Glazing & Hdw:

Alum dr - sgl	3	EA	3,800.00	11,400
Alum dr - dbl	10	EA	6,200.00	62,000

\*Includes Sections 084313, 084413, 085113 and 085619

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1,427,438

081113 HOLLOW METAL DOORS AND FRAMES

Exterior Doors:

Ext. HM Door, Frame, Hardware, Glass & Glazing:

Single	2	EA	1,500.00	3,000
Double	7	EA	2,900.00	20,300

Wd. Door, HM Frame, Hardware, Glass & Glazing:

Class w/ sidelight	73	EA	1,200.00	87,600
Connector class - sgl	2	EA	775.00	1,550
Science Prep rm	15	EA	800.00	12,000
Stair hall - sgl	1	EA	2,500.00	2,500
Stair hall - dbl	12	EA	4,500.00	54,000
Corridor/vestibule - sgl	6	EA	2,500.00	15,000
Corridor - dbl	8	EA	4,500.00	36,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Corridor - sgl w/sidelite	1	EA	3,800.00	3,800
Sgl fixture toilet rm	28	EA	750.00	21,000
Multi fixture toilet/locker rm	12	EA	750.00	9,000
Storage rm - sgl	33	EA	620.00	20,460
Storage rm - dbl	6	EA	1,050.00	6,300
Mech/elec - sgl	25	EA	650.00	16,250
Mech/elec - dbl	1	EA	1,100.00	1,100
Office - sgl	67	EA	800.00	53,600
Office - sgl w/sidelite	14	EA	1,000.00	14,000
Media ctr dbl w/sidelite	1	EA	3,300.00	3,300
Office suite - dbl	1	EA	1,400.00	1,400
Track/gym - dbl	9	EA	2,750.00	24,750
Stage/vest. - dbl	4	EA	2,750.00	11,000
Music practice class - sgl	3	EA	900.00	2,700
Music class - dbl	2	EA	1,600.00	3,200
Aud - dbl	8	EA	2,750.00	22,000
Kitchen - sgl	3	EA	950.00	2,850
TV sound rm - sgl	5	EA	900.00	4,500
Aud. control rm - sgl	1	EA	900.00	900
Café - dbl	2	EA	2,750.00	5,500
PE Gym - dbl	1	EA	2,750.00	2,750
Int. HM Frame :				
Control rm window (14'x4')	56	SF	33.00	1,848
TV studio window (9'x4')	36	SF	33.00	1,188
Pass thru ticket window	1	EA	2,500.00	2,500
Typ. window (33 EA)	1,492	SF	30.00	44,760
Misc. HM sidelite & windows	1	LS	10,000.00	10,000
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				522,606

081416 FLUSH WOOD DOORS

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0

083100 ACCESS DOORS AND PANELS

Fittings:				
Access doors & panels - allow	1	LS	30,000.00	30,000
				-----
				30,000



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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083323 OVERHEAD COILING DOORS

Exterior Doors:  
Overhead Door:

OH-1 Glazed alum. shop door (9'4"x10")	3	EA	5,500.00	16,500
OH-2 Loading dock (12'x7'4")	1	EA	3,300.00	3,300
*Includes glass, glazing & finish hardware				
				-----
				19,800

083326 OVERHEAD COILING GRILLES

Overhead Coiling Grille:

Servery (18'x8')	144	SF	65.00	9,360
Servery (9'6"x8')	152	SF	65.00	9,880
				-----
				19,240

086300 METAL-FRAMED SKYLIGHTS

Roof Openings:  
Alum. Framed Skylight:

Lobby skylight (10'6"x10'6")	2	EA	14,000.00	28,000
Café skylight (16'6"x16'6")	1	EA	34,000.00	34,000
				-----
				62,000

088000 GLAZING\*

Fittings:

Dressing rm mirror (6 EA)	72	SF	18.00	1,296
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\*Glass and glazing also included in 080005 and 123000

Interior Doors:

Windows frame (15 EA)	258	SF	14.00	3,612
Control rm window (14'x4')	56	SF	14.00	784
TV studio window (9'x4')	36	SF	14.00	504
Typ. window (33 EA)	1,492	SF	14.00	20,888
Typical sidelight	801	SF	14.00	11,214
Door glazing	1	LS	20,000.00	20,000
				-----
				58,298

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>089000 LOUVERS AND VENTS</b>				
Exterior Doors:				
Aluminum louver	300	SF	55.00	16,500
				-----
				16,500
<b>089200 LOUVERED EQUIPMENT ENCLOSURES</b>				
Roofing:				
Prefinished Alum. Equip. Screen - (NIC stl)	6,815	SF	36.00	245,340
				-----
				245,340
<b>DIVISION 09 - FINISHES</b>				
<b>090002 LATHING AND PLASTERING*</b>				
Partitions:				
Exterior:				
1 Lyr gyp @ ext. wall	46,657	SF	1.42	66,253
Box cols. @ ext wall ( 72 x 4' x 14' )	4,032	SF	4.90	19,757
Drywall Partition:				
Corridor Wall:				
Bulkhead @ class entry - 7'	3,639	SF	7.25	26,383
4/A6.41 - 2 sides	19,900	SF	6.75	134,325
7/A6.41	11,840	SF	6.75	79,920
12/A6.41	11,976	SF	6.75	80,838
4/A6.41 - locker side	3,007	SF	6.75	20,297
7/A6.41 - masonry side	2,302	SF	6.75	15,539
Reveal premium	1	LS	20,000.00	20,000
Auditorium GWB Partition:				
Curtain head frame	612	SF	15.00	9,180
GF2	1,709	SF	4.35	7,434
GF6	6,888	SF	6.20	42,706
G8	1,146	SF	10.35	11,861
Low wall @ sound booth 3'H	38	SF	12.00	456
Low wall @ upper seating	378	SF	12.00	4,536
Typical GWB Partition:				
G4	7,490	SF	7.75	58,048
GA4	15,569	SF	11.30	175,930
GA6	20,679	SF	11.90	246,080
GA8	10,844	SF	14.50	157,238

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
GF1	3,010	SF	4.60	13,846
GF2	1,922	SF	5.40	10,379
GF4	15,702	SF	6.00	94,212
GF6	11,372	SF	6.35	72,212
GD - one side	2,172	SF	9.00	19,548
S1	3,526	SF	13.75	48,483
Veneer plaster - wall	141,657	SF	1.50	212,486
Ceilings:				
Framed Gyp Ceiling:				
Typical	8,560	SF	7.75	66,340
Toilet rm	6,743	SF	7.75	52,258
Classroom entrance (64 EA)	2,041	SF	9.00	18,369
Auditorium w/soffits @ ACT	2,258	SF	35.00	79,030
Acoustical gyp clg mech rm	1,409	SF	14.00	19,726
Veneer plaster - ceiling	20,970	SF	1.60	33,552
Auditorium clouds	1,872	SF	45.00	84,240
Gyp Soffit:				
Skylight soffit	144	LF	62.00	8,928
Classroom entry (64 EA)	587	LF	22.00	12,914
Corridor/gym lockers - 13" w	1,300	LF	32.00	41,600
Corridor - perim. 6" w	621	LF	32.00	19,872
Corridor perim - 10" w	1,481	LF	32.00	47,392
Cross corridor - 1-1 5/8"	563	LF	72.00	40,536
Cross corridor - 1-9 5/8"	972	LF	78.00	75,816
Cross corridor - 2-5 5/8"	100	LF	84.00	8,400
Cross track - 1'8"	217	LF	75.00	16,275
Radius track rail 1'8"	40	LF	150.00	6,000
Track rail 1'8" (flush and arch)	370	LF	95.00	35,150
Perim. track 9"	487	LF	32.00	15,584
Music rm built-up w/trim	750	SF	28.00	21,000
Typ. soffit frame 4-6' h	1,231	LF	18.00	22,158
Box beam mech rm - 2 hr	148	LF	75.00	11,100
Box beam graphic arts	88	LF	75.00	6,600
Veneer plaster soffit	19,500	SF	1.60	31,200

\*Includes Sections 092123, 092216 and 092613

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2,421,985

090003 TILE\*

Wall Finishes:

Ceramic Wall Tile:

Shower Room Wall Tile - 8'	2,080	SF	15.25	31,720
Cafeteria	1,335	SF	20.00	26,700
Kitchen	3,000	SF	15.25	45,750

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Art rm	184	SF	20.00	3,680
Graphic arts lab	80	SF	20.00	1,600
Custodian rm @ mop sink (9 EA)	216	SF	15.25	3,294
*Excludes toilet rm wall				
Floor Finishes:				
Lobby/Vestibule & Main Corridor Floor Tile:				
Porcelain tile	6,800	SF	14.50	98,600
Lobby decorative tile premium	1	LS	5,000.00	5,000
Saddle/thresholds	1	LS	10,000.00	10,000
Porcelain tile wall base	1,650	LF	9.50	15,675
Kitchen Floor Tile:				
Quarry tile	2,485	SF	14.00	34,790
Quarry tile - wall base	400	LF	8.70	3,480
Anti fracture membrane	2,485	SF	4.75	11,804
Alum. transition strips	1	LS	1,000.00	1,000
*Includes cooler/freezer, office & toilet rm				
Toilet Floor Tile:				
Ceramic tile	6,300	SF	14.75	92,925
Ceramic wall built-up base	2,166	LF	16.00	34,656
Shw receptor		W/Plumbing		
ADA shw receptor		W/Plumbing		
Stone threshold	33	EA	45.00	1,485
Stone saddle (14 EA)	100	LF	55.00	5,500
Anti fracture membrane - 1st flr	3,800	SF	4.75	18,050
Waterproofing membrane - upper flr	2,500	SF	4.75	11,875
*Includes Sections 093013, 093016 and 093019				
				----- 457,584

090006 RESILIENT FLOORING\*

Stair Finishes:				
Stair Hall #1-#5:				
Rubber landing tile	1,200	SF	9.00	10,800
Rubber tread & riser	1,368	LFR	14.00	19,152
*Excludes mechanical rm stair finish				
*Excludes porcelain tile tread and landings				
Floor Finishes:				
Resilient Flooring:				
VCT	85,810	SF	2.90	248,849
Sheet vinyl flooring - science	1,643	SY	76.50	125,690
Sheet vinyl - health suite	62	SY	76.50	4,743
Sheet vinyl - dressing rm	32	SY	76.50	2,448
Rubber tile - art room	3,820	SF	7.15	27,313
Rubber tile - stair hall	2,104	SF	7.15	15,044

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Rubber tile - aud ramp	250	SF	6.75	1,688
Athletic rubber flr tile - locker rm	3,900	SF	10.75	41,925
Athletic rubber flr tile - PE gym	1,871	SF	10.75	20,113
Resilient wall base	18,000	LF	2.20	39,600

\*Includes Sections 096513, 096516, 096519, 096523 and 096536

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557,364

090009 PAINTING\*

Exterior Walls:				
Exterior painting	1	LS	15,000.00	15,000

Exterior Doors:				
Paint HM Door & Frame:				
Single	2	EA	55.00	110
Double	7	EA	115.00	805

Interior Doors:				
Paint HM door frame - sgl	286	EA	65.00	18,590
Paint HM door frame - dbl	55	EA	95.00	5,225
Paint HM window/sidelite	2,872	SF	5.00	14,360
Paint wd. windows	258	SF	5.00	1,290

\*Excludes painting prefinished wood doors

Stairs:				
Paint stair & rail	10	FLT	1,350.00	13,500

Interior Walls:				
Interior painting-walls	213,544	GSF	1.50	320,316

Floors:				
Concrete Slab Sealant/Paint:				
Mech/elec	6,100	SF	1.00	6,100
Auditorium	3,733	SF	1.00	3,733

Ceilings:				
Gyp ceiling painting	20,970	SF	1.00	20,970
Exposed structure painting	28,113	SF	1.40	39,358

\*Includes Sections 090100, 090113, 099123 and 099600

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459,357

095100 ACOUSTICAL CEILINGS\*

Acoustical Ceiling Tile:				
Science ACT box trim	414	LF	8.00	3,312

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
ACT-1 (2x4x5/8)	59,276	SF	2.80	165,973
ACT-2 (2x2x5/8)	46,519	SF	3.15	146,535
ACT-3 (2x4x5/8 vinyl face)	3,197	SF	5.50	17,584
ACT-4 (2x4x1 MR)	1,830	SF	6.00	10,980
ACT-5 (2x4 midi lab)	850	SF	6.00	5,100
ACT-6 (2x2x1)	802	SF	6.50	5,213
ACT-7 kitchen (2x2x5/8)	2,485	SF	5.50	13,668
ACT-7 auditorium open grid	1,998	SF	5.00	9,990
ACT-X lobby	894	SF	10.00	8,940
ACT-X PE gym	774	SF	10.00	7,740
Ceiling System - Complete:				
Metal & wood shop	4,611	SF	8.00	36,888
Lecture hall	1,300	SF	8.00	10,400
Café	5,650	SF	15.00	84,750
Library	5,922	SF	15.00	88,830
				-----
				615,902

096429 WOOD STRIP AND PLANK FLOORING

Floor Finishes:				
Wood strip and plant aud. floor	712	SF	10.00	7,120
				-----
				7,120

096466 WOOD ATHLETIC FLOORING

Floor Finishes:				
Wood athletic flooring	14,181	SF	15.50	219,806
Vented wall base	534	LF	6.75	3,605
				-----
				223,410

096733 THIN-FILM EPOXY FLOORING

Floor Finishes:				
Epoxy flooring - shop class	4,700	SF	8.25	38,775
Epoxy flooring - cust. shop	600	SF	8.25	4,950
				-----
				43,725

096766 FLUID APPLIED ATHLETIC FLOORING

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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Floor Finishes:				
Track fluid applied urethane athletic flr	5,557	SF	11.00	61,127
				-----
				61,127

096800 CARPETING

Floor finishes:				
Anti static carpet	173	SY	40.00	6,920
Carpet:				
Lecture hall - tiered seating	230	SY	40.00	9,200
Auditorium aisle	384	SY	40.00	15,360
Media center	740	SY	40.00	29,600
Office	1,490	SY	40.00	59,600
				-----
				120,680

098100 ACOUSTICAL INSULATION

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098400 ACOUSTIC ROOM COMPONENTS

Sound Control Doors - Premium:				
Aud. control rm - sgl	1	EA	250.00	250
TV/sound studio - sgl	5	EA	250.00	1,250
Music practice class - sgl	3	EA	250.00	750
Music class - dbl	2	EA	500.00	1,000
				-----
				3,250

098414 WOOD FIBER ACOUSTICAL PANELS

Fabric Wrapped Wall Panel:				
Lecture hall	952	SF	28.00	26,656
Auditorium	456	SF	28.00	12,768
Music classroom wall	282	SF	28.00	7,896
Music classroom - soffit	408	SF	28.00	11,424
Music practice room - allow	216	SF	28.00	6,048

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
T&G Wood Fiber Wall Panel:				
Tech Labs - allow	475	SF	14.00	6,650
Gym wall panel 2x4	48	EA	150.00	7,200
Metal & wood shop	195	SF	16.00	3,120
				-----
				81,762

DIVISION 10 - SPECIALTIES

101116 MARKERBOARDS

Interactive white boards		w/Electrical		
Markerboards - 4' high	3,880	SF	19.00	73,720
Horiz. sliding markerbds-math class (9 EA)	432	SF	25.00	10,800
Tackboards - 4' high	4,256	SF	12.00	51,072
Trim, chalk rail and accessories	1	LS	10,000.00	10,000
				-----
				145,592

101200 DISPLAY CASES

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0

101400 SIGNAGE

Interior Signage	1	LS	75,000.00	75,000
Exterior Walls:				
School lettering (2 loc)	56	EA	315.00	17,640
				-----
				92,640

102113 TOILET COMPARTMENTS

Phenolic Toilet Partition:				
Standard	20	EA	925.00	18,500
Barrier free	20	EA	1,025.00	20,500
Urinal screen	10	EA	275.00	2,750
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				41,750



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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102123 CUBICLES

Curtain and Track:

Health suite	5	EA	1,650.00	8,250
Dressing rm	2	EA	1,650.00	3,300
				-----
				11,550

102228 FOLDING-PANEL OPERABLE PARTITIONS

Operable Partitions:

Folding panel acoustical partition 9'6"	532	SF	89.00	47,348
Premium pass dr., frame & hdw - sgl	2	EA	2,000.00	4,000
				-----
				51,348

102813 TOILET ACCESSORIES

Toilet Accessories:

Stainless steel shelf	46	EA	115.00	5,290
Coat hook	66	EA	18.00	1,188
Grab bars	92	EA	85.00	7,820
Mirrors - framed (18"wx30"h)	72	EA	165.00	11,880
Mop and broom holders	9	EA	125.00	1,125
Sanitary napkin disposal	41	EA	60.00	2,460
Shower curtains & rods	18	EA	45.00	810
Towel hook	12	EA	15.00	180
Shower seat	6	EA	375.00	2,250
Towel dispenser	46	EA	225.00	10,350
Soap dispenser	72	EA	45.00	3,240
Toilet tissue dispenser	66	EA	44.00	2,904
Baby changing sta. - allow	2	EA	400.00	800

\*Excludes classroom & office accessories

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50,297

104400 FIRE PROTECTION SPECIALTIES

Fire Protection Specialties:

Fire extinguisher	83	EA	115.00	9,545
Fire extinguisher & cab	73	EA	325.00	23,725
Fire valve dept. cab.	21	EA	300.00	6,300

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				39,570
105113 METAL LOCKERS				
Locker:				
Corridor 15"	960	EA	215.00	206,400
PE MS student 15"	72	EA	215.00	15,480
Sped therapeutic class (15"x3')	20	EA	95.00	1,900
Custodian 15"	6	EA	175.00	1,050
Kitchen 12"	4	EA	155.00	620
Gym office 15"	14	EA	175.00	2,450
PE HS student dbl tier 15"	292	EA	175.00	51,100
10" Bench (18 EA)	88	LF	65.00	5,720
24" Bench (6 EA)	24	LF	95.00	2,280
Concrete locker base	1,787	LF	32.00	57,184
				-----
				344,184

DIVISION 11 - EQUIPMENT

111300 LOADING DOCK EQUIPMENT

Dock bumpers (6 EA)	1	LS	2,500.00	2,500
Rubber corner guards allow	1	LS	2,500.00	2,500
				-----
				5,000

113100 APPLIANCES

Appliances:

Kitchen Appliance:

Washer w/Kitchen Equipment  
 Dryer w/Kitchen Equipment

Health Suite & Trainers Room:

Under counter ice cube machine	2	EA	650.00	1,300
Refrigerator	2	EA	900.00	1,800
Refrigerator - under -counter	1	EA	750.00	750
Washer	1	EA	550.00	550
Dryer	1	EA	550.00	550

Staff Break Room:

Refrigerator full size - allow	10	EA	900.00	9,000
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Life Skills Classroom (3 EA):

Refrigerator - under -counter	3	EA	750.00	2,250
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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Dishwasher - under -counter		NIC		
Refrigerator	3	EA	900.00	2,700
Washer	3	EA	550.00	1,650
Dryer	3	EA	550.00	1,650
Wall oven	3	EA	1,200.00	3,600
Range hood	3	EA	350.00	1,050
Electric cook top	3	EA	550.00	1,650
Laboratory Appliances:				
Refrigerator - under -counter	3	EA	750.00	2,250
Refrigerator - full size	2	EA	1,100.00	2,200
Dishwasher - under -counter	6	EA	500.00	3,000

\*Science appliances are included in 115300

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35,950

114000 FOOD SERVICE EQUIPMENT

Food service equipment - allow	1	LS	400,000.00	400,000
				----- 400,000

115213 PROJECTION SCREENS

Projection Screen - Elec. Op. - Allow:

Manual Screen:				
Wood shop	1	EA	950.00	950
Projection Screen - Elec. Op.:				
Auditorium (20'x15')	1	EA	10,000.00	10,000
Lecture hall (12'x7')	1	EA	7,500.00	7,500
Student dining (14'x10-6")		NIC		
				----- 18,450

115300 LABORATORY EQUIPMENT

Water distiller	5	EA	1,200.00	6,000
Acid storage cabinets	5	EA	1,000.00	5,000
Autoclave sterilizer	2	EA	4,500.00	9,000
Stream table	1	EA	1,500.00	1,500
Incubator	2	EA	2,000.00	4,000
Gas chromatograph	1	EA	10,000.00	10,000
Flammable material storage cab.	5	EA	2,500.00	12,500
Safety glasses monitor case	5	EA	1,000.00	5,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Glassware pegboards	5	EA	350.00	1,750
Science rm sink and faucet	75	EA	825.00	61,875
				-----
				116,625
115313 LABORATORY FUME HOODS				
Lab fume hood	3	EA	7,750.00	23,250
				-----
				23,250
115700 VOCATIONAL SHOP EQUIPMENT				
Kiln		NIC		
Metal & wood shop equipment - allow	1	LS	25,000.00	25,000
CAD & graphics lab equipment - allow	1	LS	25,000.00	25,000
Wood shop - allow	1	LS	25,000.00	25,000
Library shelving & equipment		NIC		
				-----
				75,000
116100 THEATRE EQUIPMENT				
Theater equipment - allow	1	LS	394,500.00	394,500
				-----
				394,500
116623 GYMNASIUM EQUIPMENT				
Athletic Equipment:				
Type 1 wall padding - 6' high	1,422	SF	12.00	17,064
Type 2 wall padding - 6' high	120	SF	12.00	1,440
Elec. mat hoist	2	EA	7,500.00	15,000
Volleyball sleeves	1	LS	1,500.00	1,500
Fitness rm mirror	216	SF	18.00	3,888
				-----
				38,892
116624 BASKETBALL GYM EQUIPMENT				
Basketball backstop - elec. op.	9	EA	9,500.00	85,500

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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85,500

116653 GYMNASIUM DIVIDERS

Gym divider (4 EA)	7,448	SF	17.00	126,616
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126,616

116800 PLAY FIELD EQUIPMENT & STRUCTURES

0

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0

116820 ALUMINUM PORTABLE BLEACHERS

0

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0

DIVISION 12 - FURNISHINGS

122400 WINDOW SHADES

Ext. window shades	12,000	SF	4.75	57,000
Black out shade science rms	1	LS	5,000.00	5,000

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62,000

1230000 CASEWORK

Manufactured Casework w/Stainless Steel Counters:

Art Classroom (3 EA):

Open storage 4' high	14	LF	170.00	2,380
Open storage 7' high	12	LF	245.00	2,940
48" Tall storage	2	EA	1,500.00	3,000
Wall cab	81	LF	115.00	9,315
Base cab w/ctr	49	LF	275.00	13,475
ADA sink ctr	12	LF	210.00	2,520

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Sink base cab	31.5	LF	275.00	8,663
Fixed decorative shelf	78	LF	25.00	1,950
Integral sink	9	EA	700.00	6,300
Integral ADA sink	3	EA	700.00	2,100
Art Storage Room (2 EA):				
48" Tall storage	1	EA	1,500.00	1,500
Wall cab	37	LF	115.00	4,255
Base cab w/ctr	31	LF	275.00	8,525
Manufactured Casework w/ Epoxy Resin Counters:				
HS Science Rm - Bio/Chem (4 EA):				
Wall cab	246	LF	115.00	28,290
Base cab w/ctr 36" d	96	LF	275.00	26,400
ADA sink ctr	14	LF	210.00	2,940
Sink base cab	136	LF	275.00	37,400
Open tall storage	28	LF	300.00	8,400
HS Science Prep Rm - Bio/Chem (2 EA):				
36" Tall storage	2	EA	1,400.00	2,800
Wall cab	60.5	LF	110.00	6,655
Base cab w/ctr	41	LF	275.00	11,275
ADA sink ctr	6	LF	210.00	1,260
Work counter	13.5	LF	190.00	2,565
HS Science Rm - Physics (2 EA):				
Wall cab	61.5	LF	115.00	7,073
Base cab w/ctr	3	LF	275.00	825
Base cab w/ctr - 36"d	48	LF	275.00	13,200
ADA sink ctr	7	LF	210.00	1,470
Sink base cab	68	LF	275.00	18,700
Work counter	2	LF	190.00	380
HS Science Prep Rm - Physics (1 EA):				
36" Tall storage	1	EA	1,400.00	1,400
42" Tall storage	6	EA	1,450.00	8,700
Wall cab	20	LF	110.00	2,200
Base cab w/ctr	12	LF	275.00	3,300
ADA sink ctr	3	LF	210.00	630
Sink base cab	3	LF	275.00	825
Work counter	2	LF	190.00	380
MS Science Rm - 8th Grade (2 EA):				
Wall cab	37	LF	110.00	4,070
Base cab w/ctr	49	LF	275.00	13,475
ADA sink ctr	6	LF	210.00	1,260
Sink base cab	6	LF	275.00	1,650
MS Science Rm - 7th Grade (2 EA):				
Tank shelving unit	35	LF	300.00	10,500
Wall cab	78.5	LF	110.00	8,635

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Base cab w/ctr	3	LF	275.00	825
Base cab w/ctr - 36"d	48	LF	275.00	13,200
ADA sink ctr	7	LF	210.00	1,470
MS Science Prep Rm (2 EA):				
36" Tall storage	4	EA	1,400.00	5,600
Wall cab	64	LF	110.00	7,040
Base cab w/ctr	48	LF	275.00	13,200
ADA sink ctr	6	LF	210.00	1,260
Work counter	4	LF	190.00	760
Central Science Chem/Storage (1 EA) - Allow:				
42" Tall storage	3	EA	1,450.00	4,350
Wall cab	21	LF	110.00	2,310
Base cab w/ctr	10	LF	275.00	2,750
ADA sink ctr	3	LF	210.00	630
Work counter	7.5	LF	190.00	1,425
Manufactured Casework w/ Plastic Laminate Counters:				
Ticket/concession ctr	16.5	LF	165.00	2,723
Auditorium control rm ctr	8	LF	145.00	1,160
Security office work ctr	16.5	LF	145.00	2,393
Teachers station T1	59	EA	1,060.00	62,540
Teachers station T2	21	EA	840.00	17,640
Dressing rm ctr (2 EA)	24	LF	145.00	3,480
TV control rm ctr	11.5	LF	145.00	1,668
Perimeter open shelving (50%)	593	LF	95.00	56,335
Perimeter enclosed shelving (50%)	593	LF	115.00	68,195
Learning center tall storage cab	6	EA	1,500.00	9,000
Auditorium storage rm cab	14	LF	300.00	4,200
Health Suite:				
36" Tall storage	2	EA	1,300.00	2,600
Wall cab	23	LF	100.00	2,300
Base cab w/ctr	14	LF	205.00	2,870
ADA sink ctr	9	LF	165.00	1,485
Coat rod w/ shelf	6	LF	12.00	72
Library Work Room:				
24" Tall storage	1	EA	1,100.00	1,100
Wall cab	21	LF	100.00	2,100
Base cab w/ctr	14.5	LF	205.00	2,973
ADA sink ctr	3	LF	165.00	495
Low shelving	18	LF	235.00	4,230
Teachers Dining Room:				
Wall cab	8.5	LF	100.00	850
Base cab w/ctr	2.5	LF	205.00	513
ADA sink ctr	3	LF	165.00	495
Teachers Planning:				
Wall cab	47	LF	100.00	4,700

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Base cab w/ctr	36	LF	205.00	7,380
ADA sink ctr	6	LF	165.00	990
Work counter	24	LF	65.00	1,560
Guidance Suite:				
Wall cab	12	LF	100.00	1,200
Base cab w/ctr	13	LF	205.00	2,665
ADA sink ctr	3	LF	165.00	495
Work counter	12.5	LF	65.00	813
Adj. shelving - 2 tier	25	LF	12.00	300
Department Head Suite:				
Wall cab	18	LF	100.00	1,800
Base cab w/ctr	12	LF	205.00	2,460
Central Administration Suite:				
36" Tall storage	3	EA	1,300.00	3,900
Wall cab	13	LF	100.00	1,300
Base cab w/ctr	30	LF	205.00	6,150
ADA sink ctr	3	LF	165.00	495
Work counter	3	LF	65.00	195
Student Council Suite:				
36" Tall storage	1	EA	1,300.00	1,300
Wall cab	12	LF	100.00	1,200
Base cab w/ctr	7	LF	205.00	1,435
ADA sink ctr	3	LF	165.00	495
Trainers Room:				
Wall cab	10	LF	100.00	1,000
Base cab w/ctr	4	LF	205.00	820
ADA sink ctr	3	LF	165.00	495
Work counter	3	LF	65.00	195
TV studio equip. rm:				
36" Tall storage	4	EA	1,300.00	5,200
Wall cab	10	LF	100.00	1,000
Base cab w/ctr	10	LF	205.00	2,050
Business lab/classroom:				
36" Tall storage	4	EA	1,300.00	5,200
Wall cab	14	LF	100.00	1,400
Base cab w/ctr	21	LF	205.00	4,305
Therapy Classroom (2EA):				
36" Tall storage	2	EA	1,300.00	2,600
Wall cab	17	LF	100.00	1,700
Base cab w/ctr	10	LF	205.00	2,050
ADA sink ctr	6	LF	165.00	990
Life Skills Classroom (3EA):				
36" Tall storage	3	EA	1,300.00	3,900



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Wall cab	30	LF	100.00	3,000
Base cab w/ctr	45	LF	205.00	9,225
ADA sink ctr	9	LF	165.00	1,485
Cooktop counter	3	LF	75.00	225
Wall oven cab.	3	EA	300.00	900
MIDI Lab (1EA):				
36" Tall storage	2	EA	1,300.00	2,600
Wall cab	16	LF	100.00	1,600
Base cab w/ctr	16	LF	205.00	3,280
Metal & Wood Shop (1EA):				
Wall cab	9	LF	100.00	900
Base cab w/ctr	2	LF	205.00	410
ADA sink ctr	6	LF	165.00	990
Wood Shop (1EA):				
Base cab w/ctr	40	LF	205.00	8,200
ADA sink ctr	3	LF	165.00	495
CAD Lab :				
Base cab w/ctr	40	LF	205.00	8,200
Drafting Lab:				
36" Tall storage	1	EA	1,300.00	1,300
Base cab w/ctr	17	LF	205.00	3,383
Fixed decorative shelf	20	LF	25.00	500
Work counter	10	LF	75.00	750
Graphics Lab:				
Wall cab	26	LF	100.00	2,600
Base cab w/ctr	30	LF	205.00	6,150
ADA sink ctr	3	LF	165.00	495
Main Office Work Room:				
Wall cab	26	LF	100.00	2,600
Base cab w/ctr	18	LF	205.00	3,690
ADA sink ctr	3	LF	165.00	495
Music Rooms:				
30" Tall storage cab	1	EA	1,200.00	1,200
36" Tall storage cab	1	EA	1,300.00	1,300
ADA sink ctr	3	LF	165.00	495
Wall cab	3	LF	100.00	300
Music/instrument storage	47	LF	400.00	18,800
Recording rm work ctr	7	LF	75.00	525
Recording rm table	5	LF	125.00	625
Lecture Hall w/Storage Room:				
Built in tall storage	1	EA	2,500.00	2,500
Wall cab	8	LF	100.00	800
Base cab w/ctr	8	LF	205.00	1,640

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
36" Tall storage	2	EA	1,300.00	2,600
Storage unit ( 4'x4')	1	EA	1,500.00	1,500
Classroom (35 EA):				
36" Tall storage	70	EA	1,300.00	91,000
Wall cab	210	LF	100.00	21,000
Base cab w/ctr	210	LF	205.00	43,050
Corridor Display Case - Full Ht:				
Gym - allow	30	LF	550.00	16,500
Auditorium lobby - allow	30	LF	550.00	16,500
Art corridor - allow	30	LF	550.00	16,500
Library drop box w/surround	1	EA	3,000.00	3,000
Corridor achievement bd (10'x6')	6	EA	3,000.00	18,000
False corridor window (7'x5')	8	EA	1,500.00	12,000
Corridor TV board (6'x6')	4	EA	2,500.00	10,000
12"x12" Corridor acoustic bd	36	EA	75.00	2,700
Corr. acoustic bd w/trim (3'x6')	15	EA	700.00	10,500
Corr. acoustic bd w/trim (5'x6')	6	EA	800.00	4,800
				-----
				1,034,860

124813 ENTRANCE FLOOR MATS & FRAMES

Recessed entrance mat (22 EA)	1,442	SF	32.00	46,144
				-----
				46,144

126100 FIXED AUDIENCE SEATING

Auditorium seat - fixed - allow	735	EA	225.00	165,375
Aisle light premium	100	EA	45.00	4,500
Lecture hall seat - allow	100	EA	175.00	17,500
				-----
				187,375

126613 TELESCOPING BLEACHERS

Telescoping gym bleachers	690	SEAT	100.00	69,000
Bleacher custom paint premium	1	LS	10,000.00	10,000
				-----
				79,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
129200 SITE FURNISHINGS				0
				-----
				0
DIVISION 13 - SPECIAL CONSTRUCTION				
130000 SPECIAL CONSTRUCTION				
				0
				-----
				0
DIVISION 14 - CONVEYING EQUIPMENT				
142424* HOLELESS HYDRAULIC ELEVATORS				
Elevator #1 (1 door 3500#)	3	STOP	33,750.00	101,250
				-----
				101,250
DIVISION 21 - FIRE SUPPRESSION				
210000 FIRE SUPPRESSION				
210000 FIRE SUPPRESSION				
8" Valve assembly	1	LS	12,500.00	12,500
Siamese connection	1	EA	1,650.00	1,650
Hose Cabinet:				
FVC-C	21	EA	1,600.00	33,600
FVC-D	2	EA	1,600.00	3,200
FCVA	8	EA	1,400.00	11,200
Heads:				
Concealed	1,762	EA	64.00	112,768
Pendant	362	EA	55.00	19,910
Sidewall	25	EA	55.00	1,375
Roof hydrant	1	EA	1,200.00	1,200
Pipe:				
1"	7,610	LF	19.70	149,917
1 1/4"	3,575	LF	22.00	78,650
1 1/2"	3,720	LF	24.50	91,140
2"	1,845	LF	24.00	44,280
2 1/2"	1,395	LF	28.50	39,758
3"	870	LF	32.50	28,275
4"	3,570	LF	38.50	137,445
6"	820	LF	62.00	50,840

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
8"	510	LF	74.00	37,740
Underground Fire Prot. Service:				
8"	10	LF	95.00	950
				-----
				856,398

## DIVISION 22 - PLUMBING

## 220000 PLUMBING\*

P-1 Standard WC	20	EA	1,925.00	38,500
P-1H Handicapped WC	46	EA	1,925.00	88,550
P-2 Standard urinal	8	EA	1,700.00	13,600
P-2H Handicapped urinal	10	EA	1,700.00	17,000
P-3 Standard lavatory	25	EA	1,250.00	31,250
P-3H Handicapped lavatory	45	EA	1,250.00	56,250
P-4 Bi-level cooler w/remote chiller	9	EA	4,100.00	36,900
P-4A Bi-level handicapped cooler	1	EA	3,850.00	3,850
P-5 Typical shower	6	EA	1,275.00	7,650
P-5H Handicapped shower	6	EA	1,560.00	9,360
P-6 Band room sink	1	EA	1,400.00	1,400
P-7 Training room sink	2	EA	1,400.00	2,800
P-7A Training room sink	1	EA	1,400.00	1,400
P-8 Janitor sink - 36"x24"	9	EA	1,575.00	14,175
P-8A Janitor sink	1	EA	1,500.00	1,500
P-9 Supply emerg. shr/eyewash	10	EA	2,250.00	22,500
P-9A Supply emerg. shr/eyewash	2	EA	2,250.00	4,500
P-9B Eyewash	1	EA	1,800.00	1,800
P-10 Work sink	11	EA	1,600.00	17,600
P-11 Typical science sink	24	EA	950.00	22,800
P-11A science sink	42	EA	1,100.00	46,200
P-11H Handicapped science sink	9	EA	1,100.00	9,900
P-12 Science work sink	3	EA	950.00	2,850
P-12H Handicapped science work sink	5	EA	1,100.00	5,500
P-13 Nurse/exam sink	2	EA	1,450.00	2,900
P-14 Install art room sink	9	EA	700.00	6,300
P-15 Install art room handicapped sink	3	EA	700.00	2,100
P-16 Washer connection	5	EA	600.00	3,000
P-17 Art sink	1	EA	1,950.00	1,950
P-18 Double bowl work sink	3	EA	1,800.00	5,400
P-19 Whirlpool connection	2	EA	600.00	1,200
P-21 - Special deep sink	2	EA	1,850.00	3,700
Fixture rough-in and trim	323	EA	325.00	104,975
Rec rm htr	1	EA	2,500.00	2,500
Wall hydrant	19	EA	425.00	8,075
Hose bib	13	EA	350.00	4,550
Acid neut. tank	1	LS	15,000.00	15,000
Recycled Water:				
Recycle water booster pump/piping & valve	1	LS	50,000.00	50,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
UG service 5"	120	LF	150.00	18,000
20,000 Gal tank	1	EA	27,500.00	27,500
UV filtration	1	LS	28,500.00	28,500
Well	1	EA	22,500.00	22,500
HW circ	6	EA	5,500.00	33,000
Gas fired water heater - complete A/B	1	LS	95,000.00	95,000
Hot water solar panel system	1	LF	48,000.00	48,000
Vac pump	1	EA	2,700.00	2,700
<b>Roof/Storm Drain System:</b>				
<b>Underground D/W/V Pipe:</b>				
4"	605	LF	42.00	25,410
5"	205	LF	51.00	10,455
6"	235	LF	56.50	13,278
8"	515	LF	92.50	47,638
10"	160	LF	122.00	19,520
12"	315	LF	156.00	49,140
15"	320	LF	214.00	68,480
18"	15	LF	290.00	4,350
FCO	49	EA	375.00	18,375
<b>Above Ground D/W/V Pipe:</b>				
4"	1,535	LF	44.00	67,540
5"	585	LF	53.00	31,005
6"	560	LF	58.00	32,480
8"	160	LF	94.00	15,040
CO	171	EA	410.00	70,110
Roof drain	49	EA	980.00	48,020
Insulate rain leader	2,380	LF	12.00	28,560
<b>Sanitary System:</b>				
<b>Underground D/W/V Pipe:</b>				
2"	340	LF	32.00	10,880
3"	155	LF	36.50	5,658
4"	1,965	LF	42.00	82,530
5"	430	LF	51.00	21,930
12"	95	LF	56.50	5,368
FCO	76	EA	375.00	28,500
FD	33	EA	675.00	22,275
Grease interceptor - exterior	1	EA	12,000.00	12,000
Grease interceptor - interior	2	EA	5,500.00	11,000
Industrial waste tank - exterior	1	EA	35,000.00	35,000
FD	31	EA	675.00	20,925
<b>Above Ground D/W/V Pipe:</b>				
1 1/2"	30	LF	29.50	885
2"	1,480	LF	32.00	47,360
2 1/2"	135	LF	34.00	4,590
3"	970	LF	36.50	35,405
4"	635	LF	42.00	26,670
CO	12	EA	410.00	4,920
FD	6	EA	675.00	4,050

Copper Pipe:

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
1/2"	4,800	LF	14.90	71,520
3/4"	3,845	LF	19.45	74,785
1"	1,460	LF	24.00	35,040
1 1/4"	1,130	LF	29.00	32,770
1 1/2"	1,885	LF	35.50	66,918
2"	490	LF	49.50	24,255
2 1/2"	220	LF	69.50	15,290
3"	745	LF	90.00	67,050
4"	365	LF	136.00	49,640
5"	130	LF	170.00	22,100
1/2" Underslab	70	LF	65.00	4,550
Misc. valve	1	LS	19,381.39	19,381
Back flow preventers	1	LS	6,000.00	6,000
1" Pipe Insulation:				
1/2"	4,800	LF	6.00	28,800
3/4"	3,845	LF	7.15	27,492
1"	1,460	LF	7.55	11,023
1 1/4"	1,130	LF	7.98	9,017
1 1/2"	1,885	LF	8.05	15,174
2"	490	LF	8.55	4,190
2 1/2"	220	LF	9.05	1,991
3"	745	LF	9.55	7,115
4"	365	LF	12.50	4,563
5"	130	LF	15.00	1,950
1/2" Underslab	70	LF	20.00	1,400
Trap primers	17	EA	225.00	3,825
Acid/Ind/Det Waste				
UG D/W/V:				
2"	20	LF	33.50	670
3"	15	LF	39.50	593
4"	600	LF	49.50	29,700
6"	140	LF	70.00	9,800
FCO	17	EA	375.00	6,375
GCO	2	EA	375.00	750
FD	9	EA	675.00	6,075
AC D/W/V:				
1 1/2"	165	LF	31.00	5,115
2"	960	LF	33.50	32,160
3"	325	LF	39.50	12,838
2 1/2"	255	LF	46.00	11,730
4"	1,320	LF	49.50	65,340
CO	34	EA	290.00	9,860
FD	14	EA	675.00	9,450
Gas Pipe:				
1/2"	335	LF	20.30	6,801
3/4"	200	LF	23.00	4,600
1"	365	LF	26.00	9,490

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
1 1/4"	15	LF	29.00	435
1 1/2"	15	LF	40.50	608
3"	95	LF	62.00	5,890
4"	420	LF	74.00	31,080
5"	40	LF	115.00	4,600
8" boiler header	50	LF	275.00	13,750
10"	20	LF	195.00	3,900
Master SAS valve box	1	LS	3,000.00	3,000
Valve and trim	1	LS	15,000.00	15,000
Science rm gas turret	65	EA	525.00	34,125
Compressed Air Pipe:				
1/2"	185	LF	14.90	2,757
1"	115	LF	24.00	2,760
1 1/4"	240	LF	29.00	6,960
1 1/2"	45	LF	35.50	1,598
Air compressor	1	EA	4,000.00	4,000
Hose reel	5	EA	1,300.00	6,500
Vacuum Pipe:				
1/2"	20	LF	14.90	298
1"	110	LF	24.00	2,640
1 1/4"	20	LF	29.00	580
1 1/2"	105	LF	35.50	3,728
1" Gas vent PVC	180	LF	14.00	2,520
Underground Service:				
6"	10	LF	200.00	2,000
Test, clean & gc	1	LS	25,000.00	25,000
Permit	1	LS	30,000.00	30,000
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				2,904,941

## DIVISION 23 - HVAC

## 230000 HVAC\*

## Rooftop Unit:

RTU-1	27,400	CFM	6.25	171,250
RTU-2	11,050	CFM	6.25	69,063
RTU-3	21,725	CFM	6.25	135,781
RTU-4	34,100	CFM	6.25	213,125
RTU-5	15,000	CFM	6.25	93,750
RTU-6	5,000	CFM	6.25	31,250
RTU-7	12,000	CFM	6.25	75,000
RTU-8	1,600	CFM	7.00	11,200
RTU-9	17,000	CFM	5.25	89,250
RTU-10	5,800	CFM	6.25	36,250

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Energy Recovery Unit:				
ERU-1 (5000 CFM)	1	LS	35,000.00	35,000
Fan Coil Unit:				
FCU-1 (285 CFM)	1	EA	1,750.00	1,750
FCU-2 (575 CFM)	1	EA	1,750.00	1,750
Air Handling Unit:				
AHU-1 - 2 hp	1	EA	15,000.00	15,000
AHU-2 - 3 hp	1	EA	12,000.00	12,000
Variable Frequency:				
VFD 1, 2, 3, 4		w/Electrical		
Sound Attenuator:				
SA1 thru SA27	27	EA	5,000.00	135,000
Ductless Split-Type Air Conditioner:				
DFC-1/CU-1 (3 1/2 ton)	1	EA	12,500.00	12,500
DFC-2/CU-2 (1 ton)	1	EA	3,500.00	3,500
DFC-3/CU-3 (1 ton)	1	EA	3,500.00	3,500
DFC-4/CU-4 (1 ton)	1	EA	3,500.00	3,500
DFC-5/CU-5 (1 ton)	1	EA	3,500.00	3,500
DFC-6/CU-6 (1 ton)	1	EA	3,500.00	3,500
DFC-7/CU-7 (1 ton)	1	EA	3,500.00	3,500
DFC-8/CU-8 (1 ton)	1	EA	3,500.00	3,500
DFC-9/CU-9 (1 ton)	1	EA	3,500.00	3,500
DFC-10/CU-10 (1 ton)	1	EA	3,500.00	3,500
Add OFC 11 thru 14	4	EA	8,000.00	32,000
Supply:				
Registers:				
Grilles/registers	459	EA	235.00	107,865
4' Lin dif	51	EA	210.00	10,710
6' Linear diffuser	14	EA	275.00	3,850
10' Linear diffuser	2	EA	410.00	820
Louvers:				
3'x4'	1	EA	500.00	500
2'x6'	2	EA	520.00	1,040
Dampers:				
VD	425	EA	210.00	89,250
Fire	19	EA	245.00	4,655
ACD	1	EA	1,100.00	1,100
Ductwork:				
Galvanized	71,688	LBS	8.50	609,348
Lined	19,463	LBS	12.00	233,556
Duct insulation	58,000	SF	3.90	226,200
Return:				
Registers:				



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Grilles/registers	295	EA	195.00	57,525
Dampers:				
VD	243	EA	210.00	51,030
Fire	3	EA	235.00	705
ACD	8	EA	1,100.00	8,800
Ductwork:				
Galvanized	62,587	LBS	8.50	531,990
1" Lined duct	7,713	LBS	12.00	92,556
Stainless steel	622	LBS	14.00	8,708
Welded kit. exh	375	LBS	18.00	6,750
Brick vent	1	EA	1,000.00	1,000
Wall cap	2	EA	2,200.00	4,400
Flue/Breeching:				
18"	10	LF	265.00	2,650
24"	10	LF	390.00	3,900
28"	55	LF	420.00	23,100
Air Cooled Chiller:				
ACC-1 (395 ton)	1	LS	265,000.00	265,000
Chiller piping, valves & trim	1	LS	30,000.00	30,000
Make-up Kitchen Air:				
MAU-1	1	EA	32,000.00	32,000
Boiler:				
B-1 (MCF-1800)	1	EA	44,000.00	44,000
B-2 (MCF-1800)	1	EA	44,000.00	44,000
B-3 (MCF-1800)	1	EA	44,000.00	44,000
B-4 (MCF-1800)	1	EA	44,000.00	44,000
B-5 (MCF-1800)	1	EA	44,000.00	44,000
Boiler valve and trim	1	LS	35,000.00	35,000
Pump:				
P-1 (540 GPM 40 HP)	1	EA	19,500.00	19,500
P-2 (540 GPM 40 HP)	1	EA	19,500.00	19,500
P-3 (940 GPM 30 HP)	1	EA	19,500.00	19,500
P-4 (940 GPM 30 HP)	1	EA	19,500.00	19,500
Air Separator:				
AS-1 (540 GPM)	1	EA	1,800.00	1,800
AS-2 (940 GPM)	1	EA	2,300.00	2,300
Expansion Tank:				
ET-1 (528 gal.)	1	EA	4,900.00	4,900
ET-2 (528 gal.)	1	EA	4,900.00	4,900
ET-3 (158 gal.)	1	EA	3,700.00	3,700
Exhaust Fan:				
EF-1 thru EF-29	29	EA	4,000.00	116,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Hot Water Reheat Coil:				
RH-1	1	EA	1,800.00	1,800
RH-2	1	EA	1,800.00	1,800
RH-3	1	EA	1,800.00	1,800
Horizontal Unit Heater:				
HUH-1 (750 cfm 08.2 mbh)	2	EA	3,600.00	7,200
HUH-2 (2200 cfm 177.4 mbh)	1	EA	2,950.00	2,950
EUH-1 (5 kw)	2	EA	1,150.00	2,300
Finned Tube Radiation:				
FT-1	18	LF	65.00	1,170
Cabinet Unit Heater:				
CUH-1 (250 cfm)	10	EA	2,975.00	29,750
CUH-2 (345 cfm)	6	EA	2,975.00	17,850
Convactor:				
CV-1 (1.1 MBH)	11	EA	1,500.00	16,500
CV-2 (1.4 MBH)	16	EA	1,500.00	24,000
CV-3 (5.3 MBH)	4	EA	1,500.00	6,000
Condensate pumps				
Condensing units (600 sw dfc's)	14	EA	750.00	10,500
Roof Intake & Relief Vent:				
R1,2,3	3	EA	3,700.00	11,100
Destratification Fan:				
DF-1 (2300 CFM)	9	EA	775.00	6,975
HVAC Pipe:				
Refrig	925	LF	26.00	24,050
Condensate:				
3/4"	285	LF	15.00	4,275
1"	120	LF	19.00	2,280
1 1/4"	15	LF	22.00	330
CO	11	EA	150.00	1,650
Hot Water:				
3/4"	7,140	LF	19.45	138,873
1"	1,345	LF	24.00	32,280
1 1/4"	860	LF	29.00	24,940
1 1/2"	255	LF	35.50	9,053
2"	720	LF	49.50	35,640
2 1/2"	555	LF	69.50	38,573
3"	1,575	LF	74.00	116,550
4"	1,040	LF	82.00	85,280
6"	955	LF	108.00	103,140
8"	200	LF	122.00	24,400

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Valves	1	LS	30,436.40	30,436
Chilled Water:				
3/4"	90	LF	19.45	1,751
1 1/4"	300	LF	29.00	8,700
1 1/2"	285	LF	35.50	10,118
2"	60	LF	49.50	2,970
2 1/2"	200	LF	69.50	13,900
3"	230	LF	74.00	17,020
4"	1,080	LF	82.00	88,560
6"	1,405	LF	108.00	151,740
Valves	1	LS	14,737.90	14,738
1" Pipe Insulation:				
3/4"	7,230	LF	7.15	51,695
1"	1,345	LF	7.55	10,155
1 1/4"	1,160	LF	7.98	9,257
1 1/2"	540	LF	8.05	4,347
2"	780	LF	8.55	6,669
2 1/2"	755	LF	9.05	6,833
3"	1,805	LF	9.55	17,238
4"	2,120	LF	12.50	26,500
6"	2,360	LF	15.00	35,400
8"	200	LF	21.00	4,200
Terminal boxes	157	EA	1,475.00	231,575
Test and balance	213,544	GSF	0.70	149,481
ACT controls	213,544	GSF	0.50	106,772
Misc. HVAC	1	LS	30,000.00	30,000
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				5,891,087

DIVISION 26 - ELECTRICAL

260000 ELECTRICAL\*

260000 ELECTRICAL\*

POWER DISTRIBUTION

MAIN SWITCHBOARD

4000 AMP 1 EA 96,025.00 96,025

PANELBOARDS

120-208 Volt 100% Neutral:

Lighting Relay Panel:

225 AMP main lug 3 EA 1,835.00 5,505

Three Phase Panelboard:

100 AMP main brkr 8 EA 980.00 7,840

225 AMP main brkr 4 EA 2,636.00 10,544

400 AMP main brkr 9 EA 4,435.00 39,915

1600 AMP main brkr 1 EA 14,786.00 14,786

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
120-208 Volt 200% Neutral:				
100 AMP main brkr	9	EA	1,080.00	9,720
225 AMP main brkr	4	EA	2,652.00	10,608
277-480 Volt 100% Neutral:				
100 AMP main lug	6	EA	1,291.00	7,746
225 AMP main lug	6	EA	2,259.00	13,554
100 AMP main brkr	2	EA	2,762.00	5,524
225AMP main brkr	1	EA	2,967.00	2,967
1600 AMP main brkr	1	EA	15,615.00	15,615
SMART PANEL 120/208 - 277/480V				
100 AMP main lug	4	EA	6,500.00	26,000
METERING				
Single meter can	1	EA	363.00	363
100% NEUTRAL FEEDERS				
FEEDERS - IN EMT - THREE PHASE				
50 AMP	60	LF	21.40	1,284
60 AMP	70	LF	22.90	1,603
70 AMP	70	LF	26.90	1,883
100 AMP	430	LF	33.85	14,556
125 AMP	40	LF	38.25	1,530
150 AMP	20	LF	38.25	765
175 AMP	20	LF	41.20	824
225 AMP	200	LF	54.95	10,990
400 AMP	10	LF	106.70	1,067
800 AMP	30	LF	204.50	6,135
1600 AMP	40	LF	408.25	16,330
PVC UNDERGROUND THREE PHASE				
50AMP	200	LF	8.35	1,670
70AMP	200	LF	13.05	2,610
100AMP	1,420	LF	19.95	28,329
150AMP	200	LF	25.75	5,150
175AMP	290	LF	28.90	8,381
225AMP	1,690	LF	40.00	67,600
400AMP	390	LF	92.05	35,900
1600AMP	10	LF	385.35	3,854
4000AMP	50	LF	1,054.20	52,710
SPARE OR EMPTY RACEWAYS				
PVC UNDERGROUND				
1"	330	LF	3.95	1,304
2"	170	LF	8.45	1,437
4"	260	LF	17.80	4,628
EMT EXPOSED				
3/4"	250	LF	5.50	1,375
1"	1,410	LF	6.15	8,672
1 1/4"	350	LF	7.90	2,765
2"	710	LF	10.55	7,491
3"	400	LF	22.55	9,020
4"	1,070	LF	30.30	32,421

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>GENERATOR SIGNAL - UNDERGROUND</b>				
Annunciator circuits	10	LF	9.40	94
<b>CABLE TRAY - LADDER TYPE</b>				
18" Ladder	3,130	LF	50.25	157,283
<b>ENCLOSED CIRCUIT BREAKER - 3 PHASE - TO 600 VOLTS</b>				
100 AMP	1	LF	795.00	795
175 AMP	1	LF	1,764.00	1,764
225 AMP	2	LF	1,832.00	3,664
400 AMP	2	LF	3,078.00	6,156
<b>DISCONNECT SWITCHES - 3 POLE HEAVY DUTY TO 250 VOLTS</b>				
<b>2 POLE:</b>				
30 AMP F	16	EA	186.00	2,976
60 AMP F	2	EA	299.00	598
100 AMP F	1	EA	452.00	452
30 AMP F	17	EA	262.00	4,454
<b>3 POLE:</b>				
30 AMP NF	8	EA	179.00	1,432
60 AMP NF	4	EA	286.00	1,144
<b>HEAVY DUTY TO 600 VOLTS</b>				
30 AMP NF	4	EA	167.00	668
100 AMP NF	4	EA	398.00	1,592
100 AMP F	1	EA	515.00	515
200 AMP F	2	EA	814.00	1,628
30 AMP NF WP	17	EA	226.00	3,842
60 AMP NF WP	4	EA	371.00	1,484
100 AMP NF WP	2	EA	505.00	1,010
1200 AMP F WP	1	EA	7,193.00	7,193
<b>DRY TYPE TRANSFORMER - NON K RATED</b>				
15 KVA	1	EA	2,617.00	2,617
30 KVA	3	EA	3,412.00	10,236
45 KVA	4	EA	4,222.00	16,888
75 KVA	7	EA	5,941.00	41,587
112.5 KVA	2	EA	8,342.00	16,684
500 KVA	1	EA	35,071.00	35,071
<b>DRY TYPE TRANSFORMER - K-13 RATED</b>				
15 KVA	5	EA	4,260.00	21,300
30 KVA	4	EA	5,556.00	22,224
45 KVA	3	EA	6,951.00	20,853
<b>MOTOR CONTROLS</b>				
<b>LOCAL MOTOR CONTROL:</b>				
<b>COMBINATION STARTERS</b>				
Size 0	15	EA	899.00	13,485
<b>MANUAL STARTERS</b>				
120 Volt 1 pole	231	EA	100.00	23,100
120 Volt 1 pole WP	17	EA	146.00	2,482

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>MOTOR OPERATORS</b>				
One button	8	EA	129.00	1,032
Three button	4	EA	183.00	732
EPO	9	EA	129.00	1,161
<b>VARIABLE FREQUENCY DRIVE</b>				
40 HP	4	EA	8,597.00	34,388
<b>DIESEL GENERATORS</b>				
90 kw	1	EA	226,937.00	226,937
Remote annunciator	1	EA	994.00	994
<b>SPECIAL ENCLOSURES</b>				
800-1000 kw	1	EA	65,000.00	65,000
<b>AUTOMATIC TRANSFER SWITCH</b>				
225 AMP	1	EA	4,993.00	4,993
1600 AMP	1	EA	16,840.00	16,840
<b>RECEPTACLE</b>				
Duplex	765	EA	167.00	127,755
Duplex GFI	323	EA	195.00	62,985
Double duplex	22	EA	183.00	4,026
Double duplex surge	355	EA	282.00	100,110
30 AMP recept	23	EA	204.00	4,692
50 AMP recept	6	EA	410.00	2,460
<b>EMT RACEWAYS</b>				
<b>SWITCHES</b>				
S	11	EA	208.00	2,288
SK	5	EA	212.00	1,060
SKSK	1	EA	272.00	272
SKSKSK	1	EA	317.00	317
SKSKSKSK	2	EA	383.00	766
<b>RECEPTACLES</b>				
Duplex	58	EA	206.00	11,948
Double duplex	4	EA	231.00	924
Duplex GFI WP	39	EA	243.00	9,477
20 AMP twist lock	88	EA	198.00	17,424
<b>Rough In:</b>				
Tel/data/video	920	EA	85.00	78,200
<b>PVC RACEWAY - UNDERSLAB</b>				
Duplex	10	EA	452.00	4,520
Duplex GFI	37	EA	475.00	17,575
1 GANG floor box w/recept	2	EA	341.00	682
2 GANG floor box w/dbl duplex/tel	14	EA	535.00	7,490
<b>WIREMOLD</b>				
Telepower poles	3	EA	199.00	597
<b>FIRE ALARM - ADDRESSABLE</b>				
<b>METAL CLAD CABLE</b>				
Fire Alarm - Quote	1	LS	85,000.00	85,000
<b>INSTALL FA</b>				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
FACP	1	EA	600.00	600
Annunciator	3	EA	1,482.00	4,446
Smoke detector	159	EA	163.00	25,917
Heat detector	1	EA	167.00	167
Duct smoke detector	24	EA	285.00	6,840
Pull station	35	EA	143.00	5,005
Remote test seitch	24	EA	139.00	3,336
Speaker-strobe unit	183	EA	247.00	45,201
Strobe only unit	54	EA	162.00	8,748
Weatherproof beacon	3	EA	445.00	1,335
Door holder	36	EA	190.00	6,840
Monitor module	39	EA	145.00	5,655
Knox box	3	EA	325.00	975
<b>PUBLIC ADDRESS SYSTEM</b>				
Rough In:				
Amplifier	4	EA	250.00	1,000
Ceiling/wall speaker	360	EA	85.00	30,600
Scoreboard	2	EA	15,000.00	30,000
Volume control	47	EA	85.00	3,995
Mike outlet	43	EA	85.00	3,655
<b>CLOCK SYSTEM</b>				
Rough In:				
Clock backbox	112	EA	54.00	6,048
<b>SECURITY SYSTEM</b>				
Rough In:				
Key pad	7	EA	85.00	595
Door switch	170	EA	85.00	14,450
Card reader	47	EA	85.00	3,995
CCTV camera	164	EA	85.00	13,940
<b>BRANCH CIRCUITS</b>				
IN EMT				
20 AMP CIRCUIT:				
One circuit	949	EA	414.00	392,886
Two circuit	17	EA	451.00	7,667
30 AMP CIRCUIT:				
One circuit	10	EA	446.00	4,460
IN PVC - UNDERSLAB				
20 AMP CIRCUIT:				
One circuit	45	EA	413.00	18,585
30 AMP CIRCUIT:				
One circuit	27	EA	447.00	12,069
<b>MOTOR CIRCUITS</b>				
IN EMT				
SINGLE PHASE:				
20 AMP circuit	111	EA	561.00	62,271
THREE PHASE				
20 AMP circuit	32	EA	606.00	19,392

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
30 AMP circuit	2	EA	653.00	1,306
40 AMP circuit	2	EA	713.00	1,426
50-60 AMP circuit	5	EA	908.00	4,540
100 AMP circuit	6	EA	1,315.00	7,890
125 AMP circuit	2	EA	1,707.00	3,414
IN PVC - UNDERSLAB				
SINGLE PHASE				
20 AMP circuit	8	EA	464.00	3,712
30 AMP circuit	2	EA	507.00	1,014
THREE PHASE				
20 AMP circuit	5	EA	512.00	2,560
30 AMP circuit	4	EA	633.00	2,532
40 AMP circuit	5	EA	696.00	3,480
70 AMP circuit	1	EA	968.00	968
100 AMP circuit	1	EA	1,169.00	1,169
Lightning protection	1	LS	50,000.00	50,000
Short circuit co-ord study	1	LS	20,000.00	20,000
Permit	1	LS	30,000.00	30,000
Temporary electric	1	LS	20,000.00	20,000
Lighting Fixtures:				
Lighting fixture - quote	1	LS	820,000.00	820,000
A	219	EA	96.25	21,079
AD	172	EA	96.25	16,555
AE	1	EA	110.00	110
A1	154	EA	74.25	11,435
A1D	1	EA	74.25	74
A2	24	EA	44.00	1,056
A2D	4	EA	52.25	209
A2E	3	EA	46.75	140
A3	55	EA	44.00	2,420
A3D	4	EA	49.50	198
A3E	11	EA	52.25	575
A4	5	EA	44.00	220
A4E	5	EA	46.75	234
A5	4	EA	96.25	385
A5D	4	EA	96.25	385
A6	4	EA	82.50	330
A7	42	EA	68.75	2,888
B	277	EA	44.00	12,188
B2	35	EA	46.75	1,636
B2E	1	EA	49.50	50
B3	40	EA	49.50	1,980
B4	7	EA	49.50	347
C2	93	EA	44.00	4,092
C2D	22	EA	46.75	1,029
C2E	6	EA	49.50	297
C3	36	EA	46.75	1,683
C3D	3	EA	49.50	149



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
C4	19	EA	46.75	888
D2	68	EA	41.25	2,805
DC1	6	EA	55.00	330
DC2	3	EA	55.00	165
DC3	1	EA	55.00	55
E2	35	EA	41.25	1,444
E3	32	EA	44.00	1,408
E4	9	EA	46.75	421
F	84	EA	38.50	3,234
F2	4	EA	35.75	143
G	48	EA	60.50	2,904
J	9	EA	52.25	470
K	16	EA	52.25	836
K1	2	EA	46.75	94
L	132	EA	49.50	6,534
L1	3	EA	49.50	149
L2	32	EA	49.50	1,584
L3	63	EA	49.50	3,119
L4	7	EA	49.50	347
L5	6	EA	60.50	363
M	6	EA	49.50	297
N2	60	EA	44.00	2,640
N2E	6	EA	46.75	281
N3	15	EA	46.75	701
N3E	5	EA	49.50	248
N4	0	EA	0.00	0
P	36	EA	55.00	1,980
P3	26	EA	55.00	1,430
RL	4	EA	55.00	220
Q	22	EA	49.50	1,089
T	4	EA	60.50	242
T1	8	EA	60.50	484
T2	15	EA	60.50	908
U	66	EA	49.50	3,267
U6	17	EA	55.00	935
V	10	EA	60.50	605
Y	0	EA	0.00	0
Z	7	EA	60.50	424
BB	38	EA	68.75	2,613
CC1	26	EA	71.50	1,859
DD	4	EA	66.00	264
FF	1	EA	110.00	110
FF1	2	EA	110.00	220
FF2	12	EA	110.00	1,320
FF3	6	EA	110.00	660
FF4	16	EA	110.00	1,760
HH	61	EA	137.50	8,388
HH1	4	EA	110.00	440
JJ	14	EA	82.50	1,155
LL	14	EA	55.00	770

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
?	95	EA	55.00	5,225
?	7	EA	55.00	385
NAX	6	EA	55.00	330
WP	5	EA	55.00	275
EB	11	EA	55.00	605
SL-5	2	EA	110.00	220
SL-7	0	EA	0.00	0
SL-8	13	EA	123.75	1,609
SL-9	0	EA	0.00	0
SL-11	8	EA	110.00	880
SL-12	0	EA	0.00	0
SL=13	7	EA	137.50	963
WG-exit wire guard	7	EA	27.50	193
J-surf. j box w/conn. to aisle	46	EA	53.25	2,450
Master switch banks (LV)	3	EA	650.00	1,950
Misc. Ltg Fixture Wiring Devices & Bracket:				
\$	442	EA	49.25	21,769
\$3	42	EA	51.90	2,180
\$K - key oper. sw 1p	34	EA	52.25	1,777
\$K - key oper. sw 1p	16	EA	55.90	894
OS clg occ. sensor	150	EA	60.50	9,075
PP power pack	150	EA	41.25	6,188
OS wall occ sensor	46	EA	44.00	2,024
DS clg daylight sensor	76	EA	60.50	4,598
MC12/2 W/6	23,245	LF	1.45	33,705
MC12/3 W/6	12,000	LF	1.78	21,360
MC12/4 W/6	2,500	LF	2.56	6,400
MC14/2 W/6	3,000	LF	1.35	4,050
\$D	2	EA	205.00	410
SKL - low voltage sw.	18	EA	80.00	1,440
SKL3 - 3 way low voltage sw.	52	EA	83.00	4,316
J	1,500	EA	21.50	32,250
?	3,060	EA	6.50	19,890
?	1,370	EA	13.75	18,838
Pit light	1	EA	155.00	155
S12 100W M.H.	1	EA	410.00	410
Theatre Equipment:				
EMT-3/4"C-3#12	850	LF	4.41	3,744
E	4	EA	143.75	575
DR-1 Dimming rack 1	1	EA	2,200.00	2,200
DR-2 Dimming rack 2	1	EA	990.00	990
DS1 - 3 ckt. out. box	1	EA	41.25	41
DS2 - 3 ckt. out. box	1	EA	41.25	41

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
DF1 - 3 ckt. out. box	1	EA	41.25	41
DF2 - 3 ckt. out. box	1	EA	41.25	41
DF3 - 3 ckt. out. box	1	EA	41.25	41
DF4 - 3 ckt. out. box	1	EA	41.25	41
DMX out - 12"x6"x4"	4	EA	74.00	296
APS plug in station	1	EA	42.50	43
DMX out 12"x18"x6"	3	EA	178.00	534
Tormenter-12"x12"x4"	2	EA	110.50	221
HLC dimmer control station	1	EA	33.00	33
KS Key sw	1	EA	33.00	33
DMX- LPS	1	EA	55.00	55
EMT-1"C-empty	400	LF	4.10	1,640
EMT-3/4"C-empty	1,200	LF	3.25	3,900
Tork winch TS100 conns	2	EA	51.75	104
L12-20P	2	EA	86.25	173
\$L - limit sw up/down	2	EA	71.75	144
Staging/rigging	1	LS	5,490.00	5,490
Receive & store equip	1	LS	1,100.00	1,100
Backstage comm. system conduits	450	LF	5.05	2,273
ED entry station	6	EA	30.25	182
UPS plug-in station	1	EA	36.25	36
?	3	EA	50.25	151
MC-12/3 pigtail	3	EA	52.25	157
KB701 station	3	EA	41.25	124
KB702 equip rack	1	EA	137.50	138
WP-2 clear - com	6	EA	45.75	275
Stat - clear com control	2	EA	45.75	92
EMT-1"C-3#8762 Belden	500	EA	9.05	4,525
EMT-3/4"C-3#8762 Belden	500	EA	4.40	2,200
EMT-3/4"C-3#9729 Belden	960	EA	4.50	4,320
EMT-3/4"C-3#8471 Belden	670	EA	4.30	2,881
EMT-3/4"C-3#1583A Belden	250	EA	4.30	1,075
Vest Penn #77291	250	EA	1.80	450
EMT-2 /12"c-42#12	280	EA	23.57	6,600
EMT-1 1/4"c-24#12	90	EA	14.03	1,263
EMT-3/4"C-9#12	550	EA	6.73	3,699
EMT-3/4"6#12	200	EA	5.55	1,110
EMT-3/4"C-3#12	210	EA	4.41	925

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Education for Sustainability Sys. (EFS System):				
EFS system quote	1	LS	8,628.00	8,628
32" Touch screen LCD monitor - Dell	2	EA	165.00	330
Curved, flr mtd stand along enclosure, Dell	2	EA	110.00	220
Computer, Dell	2	EA	55.00	110
System software to accommodate real-time data points - Dell	1	EA	220.00	220
Internet connection	1	EA	830.00	830
?	4	EA	64.00	256
MC-12/2	260	LF	1.60	416
CAT 6E cable	2,000	LF	0.73	1,460
Tie-ins to flat pnl mtrs	12	EA	23.10	277
Data Commun. Network Equipment "HP":				
Data Comm. Network Equip. HP - quote	1	LS	254,652.00	254,652
Core	1	EA	1,320.00	1,320
MDF 104K	1	EA	1,100.00	1,100
IDF 124	1	EA	880.00	880
IDF 135	1	EA	880.00	880
IDF 157	1	EA	880.00	880
IDF 163B	1	EA	880.00	880
IDF 208	1	EA	880.00	880
IDF 228	1	EA	880.00	880
IDF 241	1	EA	880.00	880
IDF 308	1	EA	880.00	880
IDF 328	1	EA	880.00	880
IDF 341	1	EA	880.00	880
Press box	1	EA	330.00	330
Mgmt. software	1	LS	440.00	440
Fiber patch cords	32	EA	42.75	1,368
10G-B core router	1	EA	300.00	300
Equip. racks	14	EA	255.00	3,570
Switches	12	EA	27.50	330
Communications Main Grounding System:				
CPI Chats worth 4"wx3/4"dx10'L #10622-01	10	EA	215.00	2,150
Master grd. bar	1	EA	408.25	408
#6 Lug	26	EA	12.20	317
W/C #6 awg bare	750	LF	1.07	803
PVC-4:C-empty	450	LF	4.35	1,958
Core-4"	24	EA	144.58	3,470
Core-1 1/4"	12	EA	90.83	1,090
IPTV System Installation:				
Library rm 101B rack assembly & jumpers	1	LS	1,880.00	1,880
MDF rm rack assembly & jumpers	1	LS	5,100.00	5,100

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
RG-11	330	LF	0.95	314
Component connections	20	EA	77.50	1,550
Bulletin brd server	1	EA	2,220.00	2,220
Media deliv. server	1	EA	2,220.00	2,220
UPS units	2	EA	1,610.00	3,220
H decoder	2	EA	1,310.00	2,620
Encoder	14	EA	1,255.00	17,570
IR controller	2	EA	1,110.00	2,220
Tel./Data/AV:				
Structured Cabling	1	LS	363,932.00	363,932
AV System	1	LS	493,742.00	493,742
IT Voice Communication	1	LS	348,636.00	348,636
Included in quote:				
D1-I-RJ45 1G	27	EA		
D2-2-RJ45 1G	98	EA		
D4-4 RJ45 1G	70	EA		
WAP-2-RJ-ER 1G	100	EA		
PH-1-RJ-45 1G	14	EA		
F-FAX-1-RJ45 2G	2	EA		
TIA AV/interface 2G	80	EA		
TBB-6-RJ 45 2G	0	EA		
T4A-AV interface 2G	0	EA		
T4B-5-RJ45 2G	0	EA		
V-3-RJ45 & 1 PROV. 3g	80	EA		
A1-3-RJ 45 1G	70	EA		
A2-4-RJ45	13	EA		
A3-4-RJ45 w/2 ports	3	EA		
C1-Sci lab interface 1G	192	EA		
P1 proj interface wall 2G	1	EA		
P2 proj interface clg 2G	1	EA		
SM4 4 mic jacks 2G	5	EA		
SM8 mic jacks 4G	4	EA		
V2 VID/audio xmtr inter 3G	6	EA		
Lect. hall sm brd 3G	1	EA		
Inter com mic 2G	16	EA		
F bnc, 3 RJ45 3G	1	EA		
T5A teach a/v int 2G	1	EA		
T5B 5-RJ-45 & port 2G	1	EA		
S1 1 RCA spkr jack 1G	2	EA		
S2 2 RCA jack 1G	2	EA		
B1 - 1 RG-6BNC 1G	4	EA		
B2-3 RG-6BNC 1G	8	EA		
B3 2 Pin conn 2G	2	EA		
R2-1-3pin conn 1G	16	EA		
R3-1-4pin conn 1G	2	EA		
Conduit & boxes lecture hall	1	LS	2,840.00	2,840
IG b.box w/ 3/4" C stub	6	EA	45.75	275
tV studio misc. conduits, stubs	1	LS	1,460.00	1,460

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Press box:misc. work T/D/AV	1	LS	6,440.00	6,440
MDF: misc conduits CT (104k)	1	LS	2,740.00	2,740
IDF: 124,135,157,163B,241,208,228,306,328	1	LS	14,100.00	14,100
Control rm misc. couduits;studs	1	LS	690.00	690
A	5	EA	357.50	1,788
D	4	EA	357.50	1,430
M	1	EA	357.50	358
FPI	2	EA	61.25	123
CT-12'0"x4'dx12"w	1	EA	205.00	205
Cable tray supports	4	EA	29.00	116
Auditorium boxes & conduits	1	LS	23,800.00	23,800
Gym track 2" conduits	1	LS	1,985.00	1,985
Gym track wireless antenna	1	LS	1,030.00	1,030
Floor core 4"	21	EA	161.31	3,388
PVC-3"C-empty IDF 157-163	190	LF	3.48	660
Smart Boards/Interactive White Boards:				
Smart boards/interactive white boards - Quot	1	LS	448,360.00	448,360
Included in quote:				
IWB 8')" #8851X	70	EA		
IWB 6'" #6851X	10	EA		
Smartboard interface - 2 GANG box w/ 1/4"C				
to T1 & 1 1/4"C to V	80	EA	95.75	7,660
Intrusion Alarm system/Card Access:				
Intrusion alarm sys/card access - Quote	1	LS	204,949.00	204,949
Included in quote:				
Control pnl	1	EA		
Intercom control pnl wire & tie in	1	EA		
Access ctl pnl wire & tie in	1	EA		
PB panic button	5	EA		
KB knox box	1	EA		
DC Door contact	168	EA		
MO motion sensor	110	EA		
KP key pad	8	EA		
S1 door siren	9	EA		
OH o/H door contact sys	5	EA		
RH roof hatch contact sys	2	EA		
Printer	1	EA		
Power supply	1	EA		
Central station reporting	1	LS		
Proxy card reader	51	EA		
Elec. hinge		EA		
Elec lever set		EA		
PS power supply	45	EA		
Video entry control sta VCS	4	EA		
Video A1 phone entry system VES	1	EA		
18/6 sh		LF		
22/4 sh		LF		

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
22/2 sh		LF		
16/2 un sh		LF		
Pushbutton actuator	8	EA		
BB motions	110	EA	25.25	2,778
BB KP's etc	179	EA	25.25	4,520
Public Address System:				
Public address system - Quote	1	LS	238,464.00	238,464
Included in quote:				
SPWP R - press box mts	3	EA		
SpWPR pole mtd spkrs	6	EA		
PVC-1"C-Belden 3/C spkr cable	600	EA		
SP	416	EA		
SPR +	344	EA		
ES	16	EA		
FS flush horn wall	6	EA		
A volume attenuator	54	EA		
RE 5 pt w gang custom rate	2	EA		
M 1G 1 pin	18	EA		
M4 2G 4 pin	6	EA		
M6 3G 6 pin	9	EA		
M8 4G 8 pin	4	EA		
HM hanging microphone	9	EA		
C-M master clock	1	EA		
C - 16: clock	122	EA		
BB back box w/pigtail	122	EA	29.10	3,550
JB WP 12"x12"x4" @ press box	1	EA	95.00	95
Misc.	1	LS	10.00	10
CCTV System:				
CCTV system - Quote	1	LS	315,783.00	315,783
Included in quote:				
CC07 ext. fixed pole w/hsg, IR floor & htr	3	EA		
CC06 ext. press box - wall	1	EA		
CC05 ext pole mt w/Irhsg hfr	6	EA		
PSWP ext brkt mt 24v ps	10	EA		
Pole mount camera brkt	9	EA		
Wall mount camera brkt	1	EA		
CC01	48	EA		
CC02	14	EA		
CC03	29	EA		
CC04	69	EA		
CC08	5	EA		
UPS	1	EA		
Network video recorder rack w/all head end c	1	LS		
Site camera fiber optic cable	4,500	LF		
FOB-OSP @ site fiber dist. box	4	EA		
Fiber splice enclosure	4	EA		
J-4"/16" sq flush b.box	157	EA	28.10	4,412

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>SITE ELECTRICAL UTILITIES:</b>				
<b>100% NEUTRAL FEEDERS</b>				
<b>PVC UNDERGROUND THREE PHASE</b>				
225 AMP feeder	120	LF	40.00	4,800
1600 AMP feeder	120	LF	385.35	46,242
<b>SPARE OR EMPTY RACEWAYS</b>				
<b>PVC UNDERGROUND</b>				
1"	1,780	LF	3.95	7,031
2"	1,960	LF	8.45	16,562
4"	3,600	LF	17.80	64,080
5"	800	LF	27.55	22,040
<b>GENERATOR SIGNAL - UNDERGROUND</b>				
Annunciator circuits	120	LF	9.40	1,128
<b>GROUNDING</b>				
Ground rod 3/4" x 10'	4	EA	117.00	468
1/0 Bare copper wire	100	LF	3.30	330
<b>DISCONNECT SWITCHES - HEAVY DUTY</b>				
<b>3 POLE - TO 600 VOLTS</b>				
30 AMP NF WP	5	EA	226.00	1,130
<b>WIRING DEVICES</b>				
<b>PVC RACEWAY - UNDERSLAB</b>				
Duplex GFI WP	7	EA	496.00	3,472
Recept/disc SW UG wiring	2,990	EA	5.50	16,445
<b>SECURITY SYSTEM</b>				
CCTV camera power wiring	6,300	LF	4.90	30,870
<b>SITE LIGHTING FIXTURES:</b>				
Site Lighting - Quote	1	LS	490,000.00	490,000
Install:				
SL1	49	EA	479.00	23,471
SL2	29	EA	686.00	19,894
SL3	7	EA	350.00	2,450
SL4	12	EA	140.00	1,680
SL6	2	EA	140.00	280
SL9	3	EA	140.00	420
SL10	4	EA	1,000.00	4,000
Site lighting wiring	13,710	LF	6.35	87,059
Football field lighting wiring	9,300	LF	5.15	47,895
Relocate existing poles	6	EA	250.00	1,500
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				7,764,363



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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DIVISION 27 - COMMUNICATIONS

270000 COMMUNICATIONS

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DIVISION 28 - ELECTRONIC SAFETY & SECURITY

280000 ELECTRONIC SAFETY AND SECURITY

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0

DIVISION 31 - EARTHWORK

310000 EARTHWORK

Site Clearing:

Sawcut pavement	1,500	SF	7.25	10,875
Clear and grub	1	LS	15,000.00	15,000
Erosion control	6,500	LF	3.85	25,025
Construction fence	15,000	LF	10.25	153,750
Construction entrance	10	EA	2,500.00	25,000
Visual barriers	8,500	LF	2.80	23,800
Silt stack protection	10	EA	50.00	500
Tree protection	10	EA	225.00	2,250
Strip and Stack Top Soil	15,000	CY	3.85	57,750
Misc. site preparation	1	LS	10,000.00	10,000

Site Earthwork:

Site cut	48,203	CY	4.90	236,195
Site fill - (on site mat'l)	41,480	CY	4.60	190,808
Dispose of surplus	6,723	CY	10.00	67,230
Site grading	157,394	SY	0.42	66,105
Dewatering - allow	1	LS	10,000.00	10,000
Street cleaning	1	LS	15,000.00	15,000
Soil management	1	LS	20,000.00	20,000

\*Preload included w/A1020

Site Development:

12" Gravel base - reuse preload	1,114	CY	10.00	11,140
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Standard Foundations:

Slab fill	8,027	CY	18.00	144,486
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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Foundation excavation	4,100	CY	7.50	30,750
Foundation backfill	3,600	CY	6.25	22,500
Special Foundations:				
Earthwork:				
Preload 20' perimeter	8,052	CY	13.25	106,689
Preload footprint	21,185	CY	13.25	280,701
Monitor - settlement	15	EA	750.00	11,250
Stockpile for re-use	17,577	CY	6.00	105,462
Dispose surplus preload	2,500	CY	6.00	15,000
Slab on Grade:				
12" Gravel base	4,299	CY	24.00	103,176
Roadways:				
12" Gravel base - reuse preload	1,370	CY	10.00	13,700
Pedestrian Paving:				
8" Gravel Base:				
8" Gravel @ walk - reuse preload	2,828	CY	10.00	28,280
				-----
				1,802,422

311000 SITE PREPARATION & CLEARING

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DIVISION 32 - EXTERIOR IMPROVEMENTS

320000 PAVEMENT, CURBING & EDGING

Roadways:				
School Lots:				
Bituminous drive/parking	26,445	SY	26.00	687,570
Street patch @ water service (2 LOC)	52	SY	30.00	1,560
Grasscrete maintenance access rd	2,500	SF	7.75	19,375
12" Gravel base - reuse preload	8,925	CY	10.00	89,250
Concrete curb straight	12,760	LF	16.25	207,350
Concrete curb radius	2,560	LF	19.75	50,560
HC pavement markings	20	EA	65.00	1,300
Directional arrows	30	EA	55.00	1,650
Parking striping	5,500	LF	1.00	5,500
Painted crosswalk	6,700	SF	2.00	13,400
Bus /Fire lane striping	1	LS	1,000.00	1,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Raised Crosswalk (2 EA):				
Vehicular conc. base	960	SF	8.00	7,680
Concrete paver w/sand base	960	SF	20.00	19,200
Granite edging	80	LF	40.00	3,200
Police Station and Town Hall Lot:				
Bituminous drive - Police and Town Hall	4,131	SY	26.50	109,472
Concrete curb straight	1,378	LF	16.25	22,393
Concrete curb radius	285	LF	19.75	5,629
Site Development:				
Tennis court pavement	3,343	SY	26.00	86,918
Pedestrian Paving:				
Courtyard 4" conc. pavement - exp. agg.	6,623	SF	6.25	41,394
Police/town hall 4" conc. pavement	8,264	SF	4.10	33,882
4" Concrete pavement	20,920	SF	4.10	85,772
4" Concrete pavement-exp. agg.-allow	26,700	SF	6.25	166,875
6" ADA ramp - bb field w/thicken edge	1,030	SF	6.00	6,180
Bituminous pathway	4,426	SY	23.50	104,011
Concrete unit paver accent areas	100	SF	30.00	3,000
ADA detectable paver	33	EA	275.00	9,075
				-----
				1,783,195

## 323100 SITE IMPROVEMENTS

Lighting Fixtures Conc. Footing:				
Drive/parking	68	EA	650.00	44,200
Pedestrian	8	EA	500.00	4,000
Stadium	4	EA	1,500.00	6,000
Tennis Court Lights		N/A		
Roadways:				
Parking/Traffic signage	32	EA	165.00	5,280
10' C.L. Tennis fence	777	LF	47.00	36,519
Tennis court gates - sgl	6	EA	900.00	5,400
Tennis court gates - dbl	1	EA	1,500.00	1,500
Tennis court benches		N/A		
Tennis court net and post	5	EA	2,900.00	14,500
Tennis court storage unit (6 EA)	490	SF	50.00	24,500
Lot curb	65	LF	40.00	2,600
Baseball / Soccer Field (1EA):				
Baseball back stop	1	EA	25,000.00	25,000
29' Player bench	2	EA	1,200.00	2,400

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
21' Bleacher w/conc. foundation	2	EA	4,500.00	9,000
Dugout enclosure (33' x 9')	2	EA	20,000.00	40,000
6' chain link fence	421	LF	33.00	13,893
Sgl chain link gate	2	EA	950.00	1,900
Batting cage -allow	1	LS	7,500.00	7,500
Scoreboard	1	EA	25,000.00	25,000
Infield mix	1	LS	10,000.00	10,000
Sod	W/ Landscaping			
6' Protective wall padding	1,200	SF	12.00	14,400
Bullpen	1	EA	2,500.00	2,500
Softball Field/Little League Field (2EA):				
Softball back stop	2	EA	18,000.00	36,000
29' Player bench	4	EA	1,200.00	4,800
21' Bleacher w/conc. foundation	2	EA	4,500.00	9,000
Dugout enclosure (33' x 9')	2	EA	20,000.00	40,000
4' chain link fence	456	LF	26.00	11,856
Sgl chain link gate	4	EA	950.00	3,800
Protective fence guard	350	LF	2.50	875
Bullpen	1	EA	2,500.00	2,500
Infield mix	1,600	SY	14.00	22,400
Football Field/Track:				
Geotextile fabric @ bleachers	8,950	SF	0.68	6,086
6" Crushed stone @ bleachers	158	CY	34.00	5,372
Football field goal	2	EA	5,000.00	10,000
Pole vault box	1	EA	4,000.00	4,000
TO board	1	EA	3,000.00	3,000
Jumping pit (3EA)	1	LS	10,000.00	10,000
Discus circle w/barrier netting	1	LS	22,000.00	22,000
Shot put circle and cage	1	LS	22,000.00	22,000
Scoreboard	1	EA	25,000.00	25,000
Track fence	1,800	LF	26.00	46,800
C.L. track gate - sgl	2	EA	950.00	1,900
C.L. track gate - dbl	2	EA	1,500.00	3,000
C.L. track gate - slider 12'	1	EA	1,800.00	1,800
Bit track base		w/Alternate		
Polyurethane track surface		w/Alternate		
Loam & seed	15,790	SY	5.50	86,845
Fencing:				
Vehicular gate - sgl	4	EA	2,500.00	10,000
6' CL sliding fence lower school drive	1	EA	1,800.00	1,800
6' CL gate - sgl	1	EA	950.00	950
6' CL fence - Bedford Street	664	LF	36.00	23,904
Wood guard rail	488	LF	38.00	18,544
Chain link fence @ ret. wall	423	LF	32.00	13,536
Ornamental fence @ ret. wall	1,163	LF	175.00	203,525
Radius ornamental fence @ ret. wall	601	LF	190.00	114,190
Modular Block Retaining Wall:				
Exist. brick bldg	500	SF	44.00	22,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
West parking area	684	SF	44.00	30,096
Baseball field	12,440	SF	48.00	597,120
Gymnasium sidewalk	1,430	SF	44.00	62,920
Plymouth Street entrance	1,048	SF	44.00	46,112
Bike rack	8	EA	1,500.00	12,000
45' Flag pole A w/granite pedestal	1	EA	5,500.00	5,500
30' Flag pole B	3	EA	4,800.00	14,400
Litter/ recycle container	28	EA	950.00	26,600
Dining table w/umbrella	16	EA	2,500.00	40,000
6' Ornamental bench	24	EA	1,600.00	38,400
Drive Entry Sign (2 EA):				
Wd school sign	2	EA	4,000.00	8,000
Electronic school sign	2	EA	7,500.00	15,000
				-----
				1,979,723

328000 IRRIGATION

0  
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0

329000 LANDSCAPING

**Landscape Plan No. 1:**

Trees:

October Glory Maple (2-2.5" cal)	5	EA	625.00	3,125
Legacy Sugar Maple (2-2.5" cal)	5	EA	625.00	3,125
Gray Birch (10-23' ht)	6	EA	500.00	3,000
American Hornbeam (2-2.5" cal)	9	EA	625.00	5,625
Eastern Redbud (2-2.5" cal)	3	EA	650.00	1,950
Red Cedar Juniper (6-7' ht)	27	EA	350.00	9,450
Sourwood Tree (2-2.5" cal)	3	EA	675.00	2,025
Fastigate Colorado Spruce (7-8' h)	6	EA	290.00	1,740
Vanderwolf's Pyramid Pine (7-8' h)	6	EA	290.00	1,740
White Pine (6-7' ht)	6	EA	275.00	1,650
Sargent Cherry (2-2.5" cal)	3	EA	650.00	1,950
Yoshino Cherry (2-2.5" cal)	10	EA	650.00	6,500
Accolade Elm (2.5-3" cal)	6	EA	650.00	3,900
Sawleaf Zelkova (2-2.5" cal)	2	EA	650.00	1,300

Shrubs:

Inkberry (15-18")	19	EA	35.00	665
Tamarix Savin Juniper (3 gal)	15	EA	55.00	825

**Landscape Plan No. 2:**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>Trees:</b>				
October Glory Maple (2-2.5" cal)	3	EA	625.00	1,875
Legacy Sugar Maple (2-2.5" cal)	1	EA	625.00	625
Autumn Brilliance Serviceberry (6-7' ht)	4	EA	350.00	1,400
American Hornbeam (2-2.5" cal)	3	EA	650.00	1,950
Red Cedar Juniper (6-7' ht)	12	EA	350.00	4,200
Sargent Cherry (2-2.5" cal)	16	EA	650.00	10,400
Yoshino Cherry (2-2.5" cal)	16	EA	650.00	10,400
American Elm (2.5-3" cal)	6	EA	675.00	4,050
Accolade Elm (2.5-3" cal)	8	EA	675.00	5,400
Sawleaf Zelkova (2-2.5" cal)	10	EA	625.00	6,250
<b>Shrubs:</b>				
Microbiata (3 gal)	15	EA	70.00	1,050
Highbush Blueberry (2.5-3' ht)	58	EA	50.00	2,900
<b>Entrance Plaza:</b>				
<b>Trees:</b>				
Autumn Brilliance Serviceberry (6-7' ht)	6	EA	625.00	3,750
American Yellowwood (2.5-3" cal)	4	EA	625.00	2,500
Sunburst Honey Locust (3-3.5" cal)	4	EA	650.00	2,600
Ozark Witchhazel (5-6' ht)	7	EA	300.00	2,100
Japanese White Pine (8-10' ht)	1	EA	350.00	350
Sargent Cherry (2-2.5" cal)	4	EA	650.00	2,600
Western Red Cedar (6-7' ht)	7	EA	325.00	2,275
<b>Shrubs:</b>				
Blue Prince Holly (24-30")	2	EA	45.00	90
Blue Princess Holly (24-30")	20	EA	45.00	900
Elite PJM Rhododendron (24-30")	63	EA	38.00	2,394
Krypidogran (15-18")	54	EA	25.00	1,350
Mohawk Viburnum (3-4' ht)	30	EA	75.00	2,250
<b>Courtyard:</b>				
<b>Trees:</b>				
Heritage Birch (12-14' ht)	2	EA	380.00	760
Yellow Orange Witch Hazel (6-7' ht)	5	EA	325.00	1,625
Hollywood Juniper (7-8' ht)	9	EA	325.00	2,925
Japanese White Pine (8-10' ht)	4	EA	350.00	1,400
<b>Shrubs:</b>				
Bangle Genista (2 gal)	34	EA	36.00	1,224
Blue Pacific Juniper (3 gal)	19	EA	70.00	1,330
Tamarix Savin Juniper (3 gal)	31	EA	70.00	2,170
Dwarf Globe Spruce (15-18")	12	EA	35.00	420
<b>Ground Covers:</b>				
Massachusetts Manzanita (1 gal)	114	EA	18.00	2,052
Karlie Rose Fountain Grass (2 gal)	31	EA	22.00	682
Blue Indian Grass (2 gal)	17	EA	22.00	374
Black Flowered Fountain Grass (2 gal)	56	EA	22.00	1,232

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>School Parking Lot:</b>				
Trees:				
Gray Birch )10-12' ht)	8	EA	500.00	4,000
Red Cedar Juniper (6-7' ht)	6	EA	350.00	2,100
Shrubs:				
Artic Fire Dogwood (5 gal)	14	EA	125.00	1,750
Dwarf Fothergilla (3 gal)	12	EA	55.00	660
Elite PJM Rhododendron (24-30")	3	EA	65.00	195
Respread/ammend top soil	11,326	CY	9.00	101,934
Rake, seed and fertilize lawn	35,065	SY	1.95	68,377
Rake, seed mix "Type N"	3,950	SY	1.95	7,703
Sod - BB & soccer field	28,940	SY	6.00	173,640
Mulch - allowance	1	LS	25,000.00	25,000
Irrigation system		NIC		
Courtyard:				
Landscape curb -straight (8"x8")	342	LF	17.00	5,814
Landscape curb - radius	139	LF	19.00	2,641
Decorative trench drain grate - 6"	132	LF	125.00	16,500
River stone	23	CY	42.00	966
Geotextile fabric	1,800	SF	0.70	1,260
River stone edging 1/4" stl	400	LF	7.50	3,000
8" Gravel base	31	CY	22.00	682
Tree protection - allow	10	EA	250.00	2,500
Reset boulder	46	EA	50.00	2,300
				-----
				559,444

## DIVISION 33 - UTILITIES

## 330000 UTILITIES

## Water Supply:

12" Bedford St. conn w/gate valve	1	EA	7,500.00	7,500
12" Central St. conn w/gate valve	1	EA	7,500.00	7,500
8" Gate valve	4	EA	1,200.00	4,800
12" Gate valve	4	EA	950.00	3,800
8" CLDI water	1,914	LF	68.00	130,152
12" CLDI	1,311	LF	89.00	116,679
12"x12"x8" Tee	2	EA	300.00	600
12"x8"x8" Tee	1	EA	250.00	250
8" Fire service	45	LF	62.50	2,813
8" Domestic service	45	LF	49.00	2,205
Hydrant	7	EA	1,850.00	12,950
6" Hydrant lateral	127	EA	62.50	7,938
6" Hydrant gate valve & tee	7	EA	1,875.00	13,125

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Irrigation wells		w/Alternate		
Stormwater storage tank		w/Plumbing		
Recycled stormwater MH	3	EA	2,500.00	7,500
Sanitary Sewer:				
Core exist. manhole - connection	1	EA	750.00	750
Sanitary manhole w/site connection	1	EA	3,000.00	3,000
Forced main pump	1	EA	15,000.00	15,000
Brick bldg sanitary service 6"	11	LF	50.00	550
Sanitary manhole	10	EA	2,500.00	25,000
4" DI vent	161	LF	45.00	7,245
4" SDR FM	510	LF	38.00	19,380
4" SDR	181	LF	38.00	6,878
6" SDR	751	LF	42.00	31,542
8" SDR	384	LF	44.00	16,896
10" SDR	188	LF	51.00	9,588
Grease trap		w/Plumbing		
Gas interceptor		w/Plumbing		
Industrial waste holding tank		w/Plumbing		
Fire department connection		NIC		
Police department connection		NIC		
Concessions:				
Forced main manhole		w/Alternate		
Forced main pump		w/Alternate		
4" Forced main		w/Alternate		
4" SDR building conn (46LF)		w/Alternate		
Storm Sewer:				
Site Drainage :				
Site connection - exist. CB	1	EA	1,000.00	1,000
Site connection - 12" RCP	2	EA	1,000.00	2,000
Area drain/yard drain	19	EA	1,250.00	23,750
Drainage manhole	73	EA	2,250.00	164,250
Catch basin	78	EA	2,250.00	175,500
Trench drain catch basin	3	EA	750.00	2,250
Replace Bedford St. catch basin	2	EA	3,500.00	7,000
Catch basin - dbl	23	EA	3,300.00	75,900
Trench drain @ tennis court	255	LF	32.00	8,160
6" PVC	345	LF	32.00	11,040
8" PVC	26	LF	34.00	884
30" RCP	430	LF	68.00	29,240
6" Underdrain athletic field	1,245	LF	26.50	32,993
Underdrain clean out	12	EA	375.00	4,500
24" RCP	2,586	LF	56.00	144,816
12" RCP	5,895	LF	38.00	224,010
18" RCP	2,616	LF	46.00	120,336
15" RCP	194	LF	42.00	8,148
Water quality structure	3	EA	12,000.00	36,000
Outlet control structure	2	EA	6,000.00	12,000
Hydrodynamic separator	6	EA	12,000.00	72,000



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Rip rap @ flared end	14	EA	2,100.00	29,400
Head wall	14	EA	3,500.00	49,000
Rip rap area (1 loc)	1,000	SF	8.00	8,000
Detention Systems:				
#1	4,860	SF	20.00	97,200
#2	5,661	SF	20.00	113,220
Fuel Distribution:				
Gas main trenching and backfill	1,067	LF	25.00	26,675
Electrical:				
Transformer pad	1	EA	3,000.00	3,000
Generator Pad	1	EA	6,000.00	6,000
Primary ductbank trench and concrete	400	LF	60.00	24,000
Tele comm duct bank	960	LF	65.00	62,400
Manhole	3	EA	5,000.00	15,000
Emergency feed duct bank	125	LF	60.00	7,500
				-----
				2,050,812

PROJECT: East Bridgewater Junior/Senior High School  
LOCATION: East Bridgewater, MA  
CLIENT: R F Walsh Collaborative Partners  
DATE: 14-Jul-11

No.: 11010

***ALTERNATES***

ALTERNATE NO. 1 - WASTEWATER TREATMENT FACILITY	3,295,729
ALTERNATE NO. 2 - BLEACHERS AND PRESS BOX	719,143
ALTERNATE NO. 3 - POLYURETHANE TRACK SURFACING	652,566
ALTERNATE NO. 4 - SYNTHETIC TURF AND BASE CONSTRUCTION OF SYNTHETIC TURF	832,142
ALTERNATE NO. 5 - HALFTIME FACILITY - CONCESSION AND RESTROOM	621,541
ALTERNATE NO. 6 - IRRIGATION AT ATHLETIC FIELDS	209,125
ALTERNATE NO. 7 - VEGETATED ROOF COVERING AND ROOF DECK PAVERS	70,954

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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ALTERNATE NO. 1 - WASTEWATER TREATMENT FACILITY

*\*SEE ATTACHED UNIT ESTIMATE - ALTERNATE NO. 1*

ALTERNATE NO. 2 - BLEACHERS AND PRESS BOX

Add:

Aluminum bleachers (1475 seat)	7,533	SF	68.00	512,244
Bleacher ramps	2	EA	15,000.00	30,000
Press Box (192 GSF)	1	LS	30,000.00	30,000
Press Box Lift (12 VLF)	1	LS	35,000.00	35,000

Earthwork:

Footing excavation/backfill	44	EA	150.00	6,600
10" Gravel base @ pad	3	CY	50.00	150

Concrete:

Footing:

Bleacher (4'6"x4'6") (18 EA)	54	CY	375.00	20,250
Bleacher (4'6"x5'6") (18 EA)	66	CY	375.00	24,750
Ramp (3'6"x3'6"x4') (8 EA)	14.5	CY	375.00	5,438
6" Concrete pad @ ramp (2 EA)	96	CY	225.00	21,600

Electrical:

Power Distribution:

Panelboards

120-208 Volt 100% Neutral

Single Phase Panelboard

100 AMP main brkr	1	EA	1,085.00	1,085
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Spare or Empty Raceways

PVC-Underground

2":

Within Site	840	LF	8.45	7,098
Within high school	240	LF	8.45	2,028

Disconnect Switches - 3 Pole

Heavy Duty - to 250 Volts

2 Pole

30 AMP F WP	1	EA	262.00	262
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Branch Circuits

in PVC - Underslab

20 AMP Circuit

One circuit	2	EA	413.00	826
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Motor Circuits

in PVC - Underslab

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Single Phase 20 AMP	1	EA	464.00	464
Temporary Electric	1	LS	250.00	250
SUBTOTAL				698,045
FEE		1.5 %		10,471
SUBTOTAL				708,515
INSURANCE		0.5 %		3,543
SUBTOTAL				712,058
P&P BOND & INS		1 %		7,085
SUBTOTAL				719,143
CONTINGENCY		0 %		0
SUBTOTAL				719,143
ESCALATION		0 %		0
TOTAL ALTERNATE NO. 2				719,143

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>ALTERNATE NO. 3 - POLYURETHANE TRACK SURFACING</b>				
Deduct:				
Loam and seed	-7,338	SY	5.50	-40,359
Add:				
Bit. Track binder 1 1/2"	7,338	SY	12.00	88,056
Bit. Track wearing surf. 1 1/2"	7,338	SY	12.00	88,056
Synthetic track surface	58,048	SF	6.20	359,898
8" Gravel base	1,631	CY	20.00	32,620
Perim slot trench drain w/curb	720	LF	65.00	46,800
Radius perim slot trench drain w/curb	590	LF	65.00	38,350
Tie into drainage	1	LS	20,000.00	20,000
SUBTOTAL				633,421
FEE				9,501
				-----
SUBTOTAL				642,922
INSURANCE				3,215
				-----
SUBTOTAL				646,137
P&P BOND & INS				6,429
				-----
SUBTOTAL				652,566
CONTINGENCY				0
				-----
SUBTOTAL				652,566
ESCALATION				0
				-----
TOTAL ALTERNATE NO. 3				652,566

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>ALTERNATE NO. 4 - SYNTHETIC TURF AND BASE CONSTRUCTION OF SYNTHETIC TURF</b>				
Deduct:				
Loam and seed	-8,452	SY	5.50	-46,486
Add:				
Irrigation well #2	1	LS	25,000.00	25,000
Synthetic turf cooling sys.	1	LS	25,000.00	25,000
Drainage:				
Flat field drain -18"	4,959	LF	28.00	138,852
Perim. Perf. 18" drain	1,143	LF	28.00	32,004
Connector drain	160	LF	32.00	5,120
8 -18" Gravel base	2,817	CY	21.00	59,157
Geotextile fabric	8,875	SY	5.85	51,919
Athletic Field :				
Synthetic turf surface (2 1/2" pile)	76,069	SF	5.90	448,807
Finishing stone 2"	479	CY	32.00	15,328
Perim. Curb w/nailer	1,160	LF	22.00	25,520
Electrical:				
Sprinkler System Baseball Field:				
Feeders -100% Neutral				
PVC Underground				
200 AMP	960	LF	27.90	26,784
Disconnect Switches - 3 Pole				
Heavy Duty - to 600 Volts				
200 AMP NF WP	1	EA	724.00	724
SUBTOTAL				807,729
FEE				1.5 %
				12,116
SUBTOTAL				819,845
INSURANCE				0.5 %
				4,099
SUBTOTAL				823,944
P&P BOND & INS				1 %
				8,198
SUBTOTAL				832,142
CONTINGENCY				0 %
				0
SUBTOTAL				832,142
ESCALATION				0 %
				0
TOTAL ALTERNATE NO. 4				832,142

ALTERNATE NO. 5 - HALFTIME FACILITY - CONCESSION AND

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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RESTROOM

*\*SEE ATTACHED UNIT ESTIMATE - ALTERNATE NO. 5*

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>ALTERNATE NO. 6 - IRRIGATION AT ATHLETIC FIELDS</b>				
Add:				
Irrigation well #1	1	LS	25,000.00	25,000
Irrigation sys.	443,500	SF	0.35	155,225
Electrical:				
Feeders -100% Neutral PVC Underground 200 AMP	790	LF	27.90	22,041
Disconnect Switches - 3 Pole Heavy Duty - to 600 Volts 200 AMP NF WP	1	EA	724.00	724
SUBTOTAL				202,990
FEE		1.5 %		3,045
SUBTOTAL				206,035
INSURANCE		0.5 %		1,030
SUBTOTAL				207,065
P&P BOND & INS		1 %		2,060
SUBTOTAL				209,125
CONTINGENCY		0 %		0
SUBTOTAL				209,125
ESCALATION		0 %		0
TOTAL ALTERNATE NO. 6				209,125



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>ALTERNATE NO. 7 - VEGETATED ROOF COVERING AND ROOF DECK PAVERS</b>				
Add:				
Vegetated roof sys. premium	3,130	SF	20.00	62,600
Precast roof paver premium	784	SF	8.00	6,272
SUBTOTAL				68,872
FEE		1.5 %		1,033
SUBTOTAL				69,905
INSURANCE		0.5 %		350
SUBTOTAL				70,255
P&P BOND & INS		1 %		699
SUBTOTAL				70,954
CONTINGENCY		0 %		0
SUBTOTAL				70,954
ESCALATION		0 %		0
TOTAL ALTERNATE NO. 7				70,954

PROJECT: East Bridgewater Junior/Senior High School  
 LOCATION: East Bridgewater, MA  
 CLIENT: R F Walsh Collaborative Partners  
 DATE: 14-Jul-11

NO. OF SQ. FT.: 4,096  
 COST PER SQ. FT.: \$804.62

ALTERNATE NO. 1 -  
 WASTE WATER TREATMENT PLANT

No.: 11010

**SUMMARY**

	<u>TOTAL</u>	<u>PERCENT OF PROJECT</u>	<u>COST PER SF</u>
<b>A. SUBSTRUCTURE</b>			
<b>A10 - FOUNDATIONS</b>			
A1010 STANDARD FOUNDATIONS	149,900	5%	36.60
A1020 SPECIAL FOUNDATIONS	0	0%	0.00
A1030 SLAB ON GRADE	34,540	1%	8.43
<b>A20 - BASEMENT CONSTRUCTION</b>			
A2010 BASEMENT EXCAVATION	0	0%	0.00
A2020 BASEMENT WALLS	0	0%	0.00
<b>B. SHELL</b>			
<b>B10 - SUPERSTRUCTURE</b>			
B1010 FLOOR CONSTRUCTION	0	0%	0.00
B1020 ROOF CONSTRUCTION	81,729	2%	19.95
<b>B20 - EXTERIOR ENCLOSURE</b>			
B2010 EXTERIOR WALLS	232,504	7%	56.76
B2020 EXTERIOR WINDOWS	0	0%	0.00
B2030 EXTERIOR DOORS	29,979	1%	7.32
<b>B30 - ROOFING</b>			
B3010 ROOF COVERINGS	66,802	2%	16.31
B3020 ROOF OPENINGS	0	0%	0.00
<b>C. INTERIORS</b>			
<b>C10 - INTERIOR CONSTRUCTION</b>			
C1010 PARTITIONS	25,125	1%	6.13
C1020 INTERIOR DOORS	825	0%	0.20
C1030 FITTINGS	9,395	0%	2.29
<b>C20 - STAIRS</b>			
C2010 STAIR CONSTRUCTION	0	0%	0.00
C2020 STAIR FINISHES	0	0%	0.00
<b>C30 - INTERIOR FINISHES</b>			
C3010 WALL FINISHES	8,192	0%	2.00
C3020 FLOOR FINISHES	4,000	0%	0.98
C3030 CEILING FINISHES	6,216	0%	1.52
<b>D. SERVICES</b>			
<b>D10 - CONVEYING</b>			
D1010 ELEVATORS & LIFTS	0	0%	0.00
D1010 ESCALATORS & MOVING WALKS	0	0%	0.00
D1090 OTHER CONVEYING SYSTEMS	0	0%	0.00
<b>D20 - PLUMBING</b>			
D2010 PLUMBING	39,046	1%	9.53

East Bridgewater High School - Alternate No. 1 - Waste Water Treatment Plant	<u>TOTAL</u>	<u>PERCENT OF PROJECT</u>	<u>COST PER SF</u>
D30 - HVAC			
D3010 HVAC	72,620	2%	17.73
D40 - FIRE PROTECTION			
D4010 FIRE PROTECTION	20,480	1%	5.00
D50 - ELECTRICAL			
D5010 ELECTRICAL	123,326	4%	30.11
<b>E. EQUIPMENT &amp; FURNISHINGS</b>			
E10 - EQUIPMENT			
E1010 COMMERCIAL EQUIPMENT	1,200,000	36%	292.97
E1020 INSTITUTIONAL EQUIPMENT	0	0%	0.00
E1030 VEHICULAR EQUIPMENT	0	0%	0.00
E1090 OTHER EQUIPMENT	0	0%	0.00
E20 - FURNISHINGS			
E 2010 FIXED FURNISHINGS	368,500	11%	89.97
E2020 MOVABLE FURNISHINGS	0	0%	0.00
<b>F. SPECIAL CONSTRUCTION &amp; DEMOLITION</b>			
F10 - SPECIAL CONSTRUCTION			
F1010 SPECIAL STRUCTURES	0	0%	0.00
F1020 INTEGRATED CONSTRUCTION	0	0%	0.00
F1030 SPECIAL CONSTRUCTION SYSTEMS	0	0%	0.00
F1040 SPECIAL FACILITIES	0	0%	0.00
F1050 SPECIAL CONTROLS & INSTRUMENTATION	0	0%	0.00
F20 - SELECTIVE BUILDING DEMOLITION			
F2010 BUILDING ELEMENTS DEMOLITION	0	0%	0.00
F2020 HAZARDOUS COMPONENTS ABATEMENT	0	0%	0.00
<b>G. BUILDING SITEWORK</b>			
G10 - SITE PREPARATION			
G1010 SITE CLEARING	0	0%	0.00
G1020 SITE DEMOLITION & RELOCATIONS	79,091	2%	19.31
G1030 SITE EARTHWORK	0	0%	0.00
G1040 HAZARDOUS WASTE REMEDIATION	0	0%	0.00
G20 - SITE IMPROVEMENTS			
G2010 ROADWAYS	214,621	7%	52.40
G2020 PARKING LOTS	0	0%	0.00
G2030 PEDESTRIAN PAVING	5,000	0%	1.22
G2040 SITE DEVELOPMENT	15,000	0%	3.66
G2050 LANDSCAPING	5,000	0%	1.22
G30 - SITE MECHANICAL UTILITIES			
G3010 WATER SUPPLY	25,170	1%	6.15
G3020 SANITARY SEWER	467,546	14%	114.15
G3030 STORM SEWER	1,125	0%	0.27
G3040 HEATING DISTRIBUTION	0	0%	0.00
G3050 COOLING DISTRIBUTION	0	0%	0.00
G3060 FUEL DISTRIBUTION	0	0%	0.00
G3090 OTHER SITE MECHANICAL UTILITIES	0	0%	0.00
G40 - SITE ELECTRICAL UTILITIES			
G4010 ELECTRICAL DISTRIBUTION	10,000	0%	2.44
G4020 SITE LIGHTING	0	0%	0.00

East Bridgewater High School - Alternate No. 1 - Waste Water Treatment Plant	<u>TOTAL</u>	<u>PERCENT OF PROJECT</u>	<u>COST PER SF</u>
G4030 SITE COMMUNICATIONS & SECURITY	0	0%	0.00
G4090 OTHER SITE ELECTRICAL UTILITIES	0	0%	0.00
G90 - OTHER SITE CONSTRUCTION			
G9010 SERVICE AND PEDESTRIAN TUNNELS	0	0%	0.00
G9090 OTHER SITE SYSTEMS	0	0%	0.00
	-----		
TOTAL	3,295,729	100%	804.62

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>A. SUBSTRUCTURE</b>				
<b>A10 - FOUNDATIONS</b>				
A1010 STANDARD FOUNDATIONS				
Column footing	5	CY	335.00	1,675
Pier/pilaster	5	CY	825.00	4,125
Wall footing (1'x3')	30	CY	400.00	12,000
16" Foundation wall 4'-8'	30	CY	775.00	23,250
16" Foundation wall - 10'-12'	80	CY	900.00	72,000
Mechanical equip. pads - allow	1	LS	2,500.00	2,500
Mech pits - allow	1	EA	3,500.00	3,500
Mech pit wpg	1	LS	2,500.00	2,500
Thermal and Moisture:				
Dampproof frost wall 4'	2,250	SF	1.90	4,275
2" Rigid ext. found. insul w/prot.bd	2,250	SF	2.65	5,963
Foundation excavation	2,040	CY	7.50	15,300
Foundation backfill	450	CY	6.25	2,813
				-----
				149,900
A1020 SPECIAL FOUNDATIONS				
		w/Base Bid		
				-----
				0
A1030 SLAB ON GRADE				
5" Slab on Grade:				
4000 psi, NW, (incl. placement)	64	CY	155.00	9,920
6x6 W1.4 X W1.4	4,096	SF	0.94	3,850
Trowel Finish	4,096	SF	1.28	5,243
*unit cost \$4.64				
2" Rigid Slab Insul.	4,096	SF	2.45	10,035
15 Mil poly - stego wrap	4,096	SF	0.45	1,843
12" Gravel base	152	CY	24.00	3,648
				-----
				34,540
<b>TOTAL A10 FOUNDATIONS</b>				<b>184,440</b>

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>B. SHELL</b>				
<b>B10 - SUPERSTRUCTURE</b>				
B1010 FLOOR CONSTRUCTION		N/A		
				----- 0
B1020 ROOF CONSTRUCTION				
Roof framing	24	TONS	2,800.00	67,200
Roof edge angle framing	271	LF		
Moment connection	8	EA	700.00	5,600
Galv. RTU dunnage		N/A		
Metal Roof Deck: 3", 20 Ga deck - typ	4,096	SF	2.18	8,929
Fireproofing:		NIC		
				----- 81,729
<b>TOTAL B10 SUPERSTRUCTURE</b>				<b>81,729</b>

**B20 - EXTERIOR ENCLOSURE**

## B2010 EXTERIOR WALLS

Exterior Wall:				
12" CMU backup	3,800	SF	23.00	87,400
Ext. wall fluid applied air barrier	3,800	SF	2.44	9,272
2" Rigid wall insul	3,800	SF	2.30	8,740
Exterior Building Veneer:				
Split face CMU	2,900	SF	21.50	62,350
Brick piers 16"	64	SF	33.00	2,112
Brick pier 24"	212	SF	36.00	7,632
Brick soldier course - head	97	LF	30.00	2,910
Split face water table	460	SF	21.50	9,890
Pier/column base	126	SF	65.00	8,190
Cast Stone Trim:				
Watertable cap	131	LF	55.00	7,205
Pier cap trim	26	LF	90.00	2,340
Column base cap	26	LF	45.00	1,170

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Masonry flashing	1	LS	2,000.00	2,000
Cornice trim	271	LF	55.00	14,905
Metals:				
Galv. lintel	71	LF	28.00	1,988
OH door frame	2	EA	450.00	900
Painting	1	LS	1,000.00	1,000
Signage	1	LS	2,500.00	2,500
				----- 232,504
 B2020 EXTERIOR WINDOWS		 N/A		 ----- 0
 B2030 EXTERIOR DOORS				
Ext. HM Door, Frame & Hardware:				
Double	2	EA	2,900.00	5,800
Paint HM dr & frame - dbl	2	EA	100.00	200
Ext. coiling door (12'x10')	2	EA	2,700.00	5,400
Aluminum louver	318	SF	55.00	17,490
Dr perim - sealant	242	LF	4.50	1,089
				----- 29,979
<b>TOTAL B20 - EXTERIOR ENCLOSURE</b>				<b>262,483</b>

**B30 - ROOFING**

B3010 ROOF COVERINGS

Polyvinyl Chloride Roof System:				
Memb. recovery bd, 6" insul & VB	4,096	SF	12.00	49,152
Tapered roof insul	550	SF	6.00	3,300
Membrane flashing	1	LS	3,500.00	3,500
Alum. Sheet Metal Flashing and Trim:				
Typ roof edge	271	LF	18.00	4,878
Roof accessories	1	LS	1,500.00	1,500

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Flat roof edge blocking	271	LF	16.50	4,472
				-----
				66,802
B3020 ROOF OPENINGS		N/A		
				-----
				0
<b>TOTAL B30 ROOFING</b>				<b>66,802</b>

**C. INTERIORS****C10 - INTERIOR CONSTRUCTION****C1010 PARTITIONS**

Typical CMU Partitions 20'6":

6" CMU	490	SF	16.00	7,840
8" CMU	876	SF	18.00	15,768
Seismic clip @ CMU part. (4' oc)	17	EA	85.00	1,445
Loose lintel	4	LF	18.00	72
				-----
				25,125

**C1020 INTERIOR DOORS**

Door, Frame and Hardware:

Sgl fixture toilet rm	1	EA	750.00	750
Paint door - sgl	1	EA	75.00	75
				-----
				825

**C1030 FITTINGS**

Misc. metals	4,096	GSF	0.25	1,024
Int. joint sealants louver/doors	242	LF	3.50	847
Int. joint sealants	4,096	GSF	0.35	1,434
Adj. wall mtd shelving	1	LS	500.00	500
Misc. rough carpentry	4,096	GSF	0.50	2,048
P. lam sink base cab. (1 EA)	4	LF	250.00	1,000
Access doors & panels - allow	1	LS	750.00	750



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Toilet Accessories:				
Coat hook	1	EA	18.00	18
Grab bars	2	EA	85.00	170
Mirrors - framed (18"wx30"h)	1	EA	165.00	165
Mop and broom holders	1	EA	125.00	125
Towel dispenser	1	EA	225.00	225
Soap dispenser	1	EA	45.00	45
Toilet tissue dispenser	1	EA	44.00	44
Locker		N/A		
Fire Protection Specialties	1	LS	500.00	500
Interior Signage	1	LS	500.00	500
				----- 9,395
<b>TOTAL C10 - INTERIOR CONSTRUCTION</b>				<b>35,345</b>

**C20 - STAIRS**

NA

<b>TOTAL C20 - STAIRS</b>	<b>0</b>
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**C30 - INTERIOR FINISHES**

C3010 WALL FINISHES

Interior painting	4,096	GSF	2.00	8,192
				----- 8,192

C3020 FLOOR FINISHES

Concrete slab sealant	4,000	SF	1.00	4,000
				----- 4,000

C3030 CEILING FINISHES

Framed gyp ceiling		N/A		
ACT 2x2	54	SF	4.00	216
Paint exposed structure	4,000	SF	1.50	6,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				----- 6,216
<b>TOTAL C30 - INTERIOR FINISHES</b>				<b>18,408</b>

**D. SERVICES**

<b>D10 - CONVEYING</b>		N/A		----- 0
<b>TOTAL D10 - CONVEYING</b>				<b>0</b>

**D20 - PLUMBING**

D2010 PLUMBING

Fixtures:

Toilet	1	EA	3,200.00	3,200
Lav	1	EA	3,200.00	3,200
Water heater	1	EA	3,200.00	3,200
Work sink	1	EA	3,200.00	3,200
Eye wash/shw	1	EA	3,200.00	3,200
Roof drain	4	EA	1,400.00	5,600
Waste water equip. tie in	1	LS	10,000.00	10,000
Water service	1	LS	2,500.00	2,500
Sanitary service	1	LS	850.00	850
Misc. plumbing	4,096	GSF	1.00	4,096
				----- 39,046

<b>TOTAL D20 - PLUMBING</b>				<b>39,046</b>
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**D30 - HVAC**

D3010 HVAC

230000 HVAC\*

HVAC	4,096	GSF	10.00	40,960
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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Make-Up Air Unit (MUA):				
MAU2	1	EA	7,500.00	7,500
Thermostats	2	EA	650.00	1,300
Unit Heater:				
Gas fired unit htr GFUH1	1	EA	1,200.00	1,200
Gas pipe - allow	1	LS	3,000.00	3,000
Exhaust Fans:				
EF-25	1	EA	3,000.00	3,000
EF-26	1	EA	3,000.00	3,000
EF-27	1	EA	3,000.00	3,000
Supply:				
Registers:				
Grilles/registers	8	EA	225.00	1,800
Ductwork:				
Galvanized	328	LBS	12.00	3,936
Return:				
Registers:				
Grilles/registers	3	EA	200.00	600
Ductwork:				
Galvanized	277	LBS	12.00	3,324
				-----
				72,620
<b>TOTAL D30 - HVAC</b>				<b>72,620</b>

**D40 - FIRE PROTECTION**

D4010 FIRE PROTECTION

Sprinkler system	4,096	GSF	5.00	20,480
				-----
				20,480

<b>TOTAL D40 - FIRE PROTECTION</b>				<b>20,480</b>
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**D50 - ELECTRICAL**

D5010 ELECTRICAL

POWER DISTRIBUTION  
 MAIN SWITCHBOARD  
 PANELBOARDS

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
120-208 Volt 100% Neutral: Three Phase Panelboards:				
100 AMP main brkr	1	EA	910.00	910
277-480 Volt 100% Neutral:				
400 AMP main brkr	1	EA	3,853.00	3,853
100% NEUTRAL FEEDERS				
FEEDERS - IN EMT				
225 AMP	30	LF	54.95	1,649
FEEDERS, UNDERGROUND - IN PVC				
400 AMP:				
Within WWTP	20	LF	92.05	1,841
Within Site	330	LF	92.05	30,377
Within HS Bldg	30	LF	92.05	2,762
SPARE OR EMPTY RACEWAYS				
PVC UNDERGROUND				
3/4"	200	LF	3.60	720
1"	200	LF	3.95	790
4" - Within Bldg	30	LF	17.80	534
4" - Within Site to 1st manhole	130	LF	17.80	2,314
LIGHTING CONTACTORS				
Time clock	1	EA	424.00	424
DISCONNECT SWITCHES - HEAVY DUTY				
3 POLE - TO 600 VOLTS				
30 AMP NF	1	EA	167.00	167
DRY TYPE TRANSFORMER - NON K RATED				
15 KVA	1	EA	2,617.00	2,617
MOTOR CONTROLS				
LOCAL MOTOR CONTROL:				
COMBINATION STARTERS				
Size 0	2	EA	899.00	1,798
MANUAL STARTERS				
120 Volt 1 pole	5	EA	100.00	500
MOTOR OPERATORS				
Three button	2	EA	183.00	366
WIRING DEVICES				
EMT RACEWAYS				
SWITCHES				
Occupancy sensor	1	EA	235.00	235
SSS	2	EA	303.00	606
PVC RACEWAY - UNDERSLAB				
Duplex GFI	9	EA	475.00	4,275
FIRE ALARM - ADDRESSABLE				
PLENUM CABLE				
Fire alarm control panel to 6 zones	1	EA	4,278.00	4,278

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Pull station	2	EA	569.00	1,138
Horn-strobe unit	4	EA	582.00	2,328
Strobe only unit	1	EA	518.00	518
<b>LIGHTING FIXTURES</b>				
Type B4	1	EA	191.00	191
Type RL	31	EA	347.00	10,757
Type SL8	2	EA	294.00	588
Exit	2	EA	281.00	562
<b>BRANCH CIRCUITS</b>				
<b>IN EMT</b>				
<b>20 AMP CIRCUIT:</b>				
One circuit	6	EA	414.00	2,484
<b>IN PVC - UNDERSLAB</b>				
<b>20 AMP CIRCUIT:</b>				
One circuit	3	EA	413.00	1,239
<b>MOTOR CIRCUITS</b>				
<b>IN EMT</b>				
<b>SINGLE PHASE:</b>				
20 AMP	4	EA	561.00	2,244
<b>THREE PHASE</b>				
20 AMP	3	EA	606.00	1,818
<b>IN PVC-UNDERSLAB</b>				
<b>SINGLE PHASE</b>				
20 AMP	44	EA	464.00	20,416
<b>THREE PHASE</b>				
20 AMP	19	EA	512.00	9,728
30 AMP	5	EA	633.00	3,165
50-60 AMP	5	EA	727.00	3,635
Permit/temporary electric	1	LS	1,500.00	1,500
				-----
				123,326
<b>TOTAL D50 - ELECTRICAL</b>				<b>123,326</b>

**E. EQUIPMENT & FURNISHINGS**

**E10 - EQUIPMENT**

**E1010 COMMERCIAL EQUIPMENT**

Waste water treatment equip	1	LS	1,200,000.00	1,200,000
				-----
				1,200,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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<b>TOTAL E10 - EQUIPMENT</b>				<b>1,200,000</b>
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<b>E20 - FURNISHINGS</b>		N/A		----- 368,500
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<b>TOTAL E20 - FURNISHINGS</b>				<b>368,500</b>
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**G. BUILDING SITEWORK**

**G10 - SITE PREPARATION**

G1010 SITE CLEARING		N/A		----- 0
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G1020 SITE DEMOLITION & RELOCATIONS

Sawcut roadway	5,780	LF	5.00	28,900
Sawcut school lot	1,730	LF	5.00	8,650
Site Demolition - Remove:				
Pavement roadway - 6' wide	17,340	SF	0.75	13,005
Pavement school lot - 6' wide	3,702	SF	0.75	2,777
Pavement @ septic field	20,759	SF	1.00	20,759
Misc. Site Demolition	1	LS	5,000.00	5,000
				----- 79,091

G1030 SITE EARTHWORK

\*Site utilities and roadways include earthwork

				----- 0
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<b>TOTAL G10 - SITE PREPARATION</b>				<b>79,091</b>
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**G20 - SITE IMPROVEMENTS**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>G2010 ROADWAYS</b>				
Police detail (2 men)	80	CD	880.00	70,400
12" Gravel base - street/park patch	780	CY	10.00	7,800
12" Gravel parking infill	807	CY	15.00	12,105
School Drive/Lot Patching:				
Bituminous - 6' wide	411	SY	28.00	11,508
Bituminous parking infill	2,307	SY	28.00	64,596
Central Street Patching:				
Bituminous - 6' wide	1,927	SY	24.50	47,212
Concrete curb		N/A		
Pavement striping	1	LS	1,000.00	1,000
				-----
				214,621
<b>G2020 PARKING LOTS</b>				
		See G2010		
				-----
				0
<b>G2030 PEDESTRIAN PAVING</b>				
Patch @ utility connections	1	LS	5,000.00	5,000
				-----
				5,000
<b>G2040 SITE DEVELOPMENT</b>				
Guardrail		NIC		
Restore disturbed areas	1	LS	15,000.00	15,000
				-----
				15,000
<b>G2050 LANDSCAPING</b>				
Restore disturbed areas	1	LS	5,000.00	5,000
				-----
				5,000
<b>TOTAL G20 - SITE IMPROVEMENTS</b>				<b>239,621</b>

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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**G30 - SITE MECHANICAL UTILITIES**

**G3010 WATER SUPPLY**

Site connection	1	LOC	2,500.00	2,500
Gate valve	1	EA	850.00	850
Treatment service - allow	50	LF	73.00	3,650
6" Fire service line		N/A		
2" Domestic service	60	LF	32.00	1,920
Hydrant		in Base Bid		
Re-route water line @ disposal area	250	LF	65.00	16,250
				-----
				25,170

**G3020 SANITARY SEWER**

Dosing tank pump sta (6,000 gal)	1	EA	15,000.00	15,000
Flow eq. tank pump sta (4,000 gal)	1	EA	12,500.00	12,500
Flow eq. tank (20,000 gal)	1	EA	25,000.00	25,000
Trash trap (15,000 gal)	1	EA	20,000.00	20,000
(2) 6" SDR-21 force mains	3,491	LF	48.00	167,568
6" SDR - 35	82	LF	48.00	3,936
Sanitary manhole	3	EA	3,000.00	9,000
2" Forced main	31	LF	42.00	1,302
4" PVC	32	LF	44.00	1,408
6" PVC	143	LF	48.00	6,864
12" CDLI	26	LF	68.00	1,768
2" Gate valve	2	EA	650.00	1,300
6" Gate valve	9	EA	850.00	7,650
*Gas & water lines re-routed - By Others				
Septic field	10,125	SF	18.00	182,250
Inspection manhole @ field	4	EA	3,000.00	12,000
*Fire station and lower school tie - By Owner				
				-----
				467,546

**G3030 STORM SEWER**

Roof drain line - allow	25	LF	45.00	1,125
				-----
				1,125

**G3060 FUEL DISTRIBUTION**



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Relocate gas line		By Others		0
				----- 0
<b>TOTAL G30 - SITE MECHANICAL UTILITIES</b>				<b>493,841</b>

**G40 - SITE ELECTRICAL UTILITIES**

G4010 ELECTRICAL DISTRIBUTION

Site electric - allow	1	LS	10,000.00	10,000
				----- 10,000
				0
<b>TOTAL G40 - SITE ELECTRICAL UTILITIES</b>				<b>10,000</b>

PROJECT: East Bridgewater Junior/Senior High School  
 LOCATION: East Bridgewater, MA  
 CLIENT: R F Walsh Collaborative Partners  
 DATE: 14-Jul-11

NO. OF SQ. FT.: 1,221  
 COST PER SQ. FT.: \$509.04

ALTERNATE NO. 5 - HALFTIME FACILITY,  
 CONCESSION AND RESTROOM

No.: 11010

**SUMMARY**

	<u>TOTAL</u>	<u>PERCENT OF PROJECT</u>	<u>COST PER SF</u>
<b>A. SUBSTRUCTURE</b>			
A10 - FOUNDATIONS			
A1010 STANDARD FOUNDATIONS	41,264	7%	33.80
A1020 SPECIAL FOUNDATIONS	0	0%	0.00
A1030 SLAB ON GRADE	10,362	2%	8.49
A20 - BASEMENT CONSTRUCTION			
A2010 BASEMENT EXCAVATION	0	0%	0.00
A2020 BASEMENT WALLS	0	0%	0.00
<b>B. SHELL</b>			
B10 - SUPERSTRUCTURE			
B1010 FLOOR CONSTRUCTION	0	0%	0.00
B1020 ROOF CONSTRUCTION	38,060	6%	31.17
B20 - EXTERIOR ENCLOSURE			
B2010 EXTERIOR WALLS	80,126	13%	65.62
B2020 EXTERIOR WINDOWS	0	0%	0.00
B2030 EXTERIOR DOORS	15,177	2%	12.43
B30 - ROOFING			
B3010 ROOF COVERINGS	23,882	4%	19.56
B3020 ROOF OPENINGS	0	0%	0.00
<b>C. INTERIORS</b>			
C10 - INTERIOR CONSTRUCTION			
C1010 PARTITIONS	32,688	5%	26.77
C1020 INTERIOR DOORS	0	0%	0.00
C1030 FITTINGS	9,396	2%	7.70
C20 - STAIRS			
C2010 STAIR CONSTRUCTION	0	0%	0.00
C2020 STAIR FINISHES	0	0%	0.00
C30 - INTERIOR FINISHES			
C3010 WALL FINISHES	2,442	0%	2.00
C3020 FLOOR FINISHES	1,000	0%	0.82
C3030 CEILING FINISHES	6,746	1%	5.52
<b>D. SERVICES</b>			
D10 - CONVEYING			
D1010 ELEVATORS & LIFTS	0	0%	0.00
D1010 ESCALATORS & MOVING WALKS	0	0%	0.00
D1090 OTHER CONVEYING SYSTEMS	0	0%	0.00
D20 - PLUMBING			
D2010 PLUMBING	66,000	11%	54.05

East Bridgewater High School - Alternate No. 5 - Halftime Facility, Concession &	<u>TOTAL</u>	<u>PERCENT OF PROJECT</u>	<u>COST PER SF</u>
D30 - HVAC			
D3010 HVAC	17,705	3%	14.50
D40 - FIRE PROTECTION			
D4010 FIRE PROTECTION	6,105	1%	5.00
D50 - ELECTRICAL			
D5010 ELECTRICAL	183,725	30%	150.47
<b>E. EQUIPMENT &amp; FURNISHINGS</b>			
E10 - EQUIPMENT			
E1010 COMMERCIAL EQUIPMENT	30,000	5%	24.57
E1020 INSTITUTIONAL EQUIPMENT	0	0%	0.00
E1030 VEHICULAR EQUIPMENT	0	0%	0.00
E1090 OTHER EQUIPMENT	0	0%	0.00
E20 - FURNISHINGS			
E 2010 FIXED FURNISHINGS	2,048	0%	1.68
E2020 MOVABLE FURNISHINGS	0	0%	0.00
<b>F. SPECIAL CONSTRUCTION &amp; DEMOLITION</b>			
F10 - SPECIAL CONSTRUCTION			
F1010 SPECIAL STRUCTURES	0	0%	0.00
F1020 INTEGRATED CONSTRUCTION	0	0%	0.00
F1030 SPECIAL CONSTRUCTION SYSTEMS	0	0%	0.00
F1040 SPECIAL FACILITIES	0	0%	0.00
F1050 SPECIAL CONTROLS & INSTRUMENTATION	0	0%	0.00
F20 - SELECTIVE BUILDING DEMOLITION			
F2010 BUILDING ELEMENTS DEMOLITION	0	0%	0.00
F2020 HAZARDOUS COMPONENTS ABATEMENT	0	0%	0.00
<b>G. BUILDING SITEWORK</b>			
G10 - SITE PREPARATION			
G1010 SITE CLEARING	0	0%	0.00
G1020 SITE DEMOLITION & RELOCATIONS	0	0%	0.00
G1030 SITE EARTHWORK	0	0%	0.00
G1040 HAZARDOUS WASTE REMEDIATION	0	0%	0.00
G20 - SITE IMPROVEMENTS			
G2010 ROADWAYS	0	0%	0.00
G2020 PARKING LOTS	0	0%	0.00
G2030 PEDESTRIAN PAVING	0	0%	0.00
G2040 SITE DEVELOPMENT	0	0%	0.00
G2050 LANDSCAPING	0	0%	0.00
G30 - SITE MECHANICAL UTILITIES			
G3010 WATER SUPPLY	3,840	1%	3.14
G3020 SANITARY SEWER	44,976	7%	36.84
G3030 STORM SEWER	0	0%	0.00
G3040 HEATING DISTRIBUTION	0	0%	0.00
G3050 COOLING DISTRIBUTION	0	0%	0.00
G3060 FUEL DISTRIBUTION	0	0%	0.00
G3090 OTHER SITE MECHANICAL UTILITIES	0	0%	0.00
G40 - SITE ELECTRICAL UTILITIES			
G4010 ELECTRICAL DISTRIBUTION	6,000	1%	4.91
G4020 SITE LIGHTING	0	0%	0.00

East Bridgewater High School - Alternate No. 5 - Halftime Facility, Concession &	<u>TOTAL</u>	<u>PERCENT OF PROJECT</u>	<u>COST PER SF</u>
G4030 SITE COMMUNICATIONS & SECURITY	0	0%	0.00
G4090 OTHER SITE ELECTRICAL UTILITIES	0	0%	0.00
G90 - OTHER SITE CONSTRUCTION			
G9010 SERVICE AND PEDESTRIAN TUNNELS	0	0%	0.00
G9090 OTHER SITE SYSTEMS	0	0%	0.00
	-----		
TOTAL	621,541	100%	509.04

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>A. SUBSTRUCTURE</b>				
<b>A10 - FOUNDATIONS</b>				
A1010 STANDARD FOUNDATIONS				
Column footing	4	CY	335.00	1,340
Pier/pilaster	4	CY	825.00	3,300
Wall footing (1'x3')	16	CY	400.00	6,400
16" Foundation wall - 4'	28	CY	850.00	23,800
Mechanical equip. pads	1	LS	2,500.00	2,500
Thermal and Moisture: Dampproof frost wall 4'	568	SF	1.90	1,079
2" Rigid ext. found. insul w/prot.bd	568	SF	2.42	1,375
Foundation excavation	126	CY	7.50	945
Foundation backfill	84	CY	6.25	525
				-----
				41,264
A1020 SPECIAL FOUNDATIONS		w/Base Bid		
				-----
				0
A1030 SLAB ON GRADE				
5" Slab on Grade: 4000 psi, NW, (incl. placement)	19	CY	155.00	2,945
6x6 W1.4 X W1.4	1,221	SF	0.94	1,148
Trowel Finish	1,221	SF	1.25	1,526
*unit cost \$4.60				
2" Rigid Slab Insul.	1,221	SF	2.45	2,991
15 Mil poly - stego wrap	1,221	SF	0.55	672
12" Gravel base	45	CY	24.00	1,080
				-----
				10,362
<b>TOTAL A10 FOUNDATIONS</b>				<b>51,626</b>

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>B. SHELL</b>				
<b>B10 - SUPERSTRUCTURE</b>				
B1010 FLOOR CONSTRUCTION		N/A		----- 0
<b>B1020 ROOF CONSTRUCTION</b>				
Roof framing	9	TONS	2,800.00	25,200
Roof edge angle framing	156	LF	25.00	3,900
Moment connection	8	EA	700.00	5,600
Metal Roof Deck:				
1 1/2", 20 Ga deck - shingle	1,600	SF	2.10	3,360
Fireproofing:		NIC		----- 38,060
<b>TOTAL B10 SUPERSTRUCTURE</b>				<b>38,060</b>

**B20 - EXTERIOR ENCLOSURE****B2010 EXTERIOR WALLS**

Exterior Wall:				
8" CMU backup	1,300	SF	20.00	26,000
Ext. Ceiling/Soffit Frame:				
Framing - overhang	234	SF	8.00	1,872
Ext. wall fluid applied air barrier	1,300	SF	2.44	3,172
Ext. soffit/clg fluid applied air barrier	234	SF	2.66	622
2" Rigid wall insul	1,300	SF	2.30	2,990
2" Rigid insul @ soffit	234	SF	2.45	573
Exterior Building Veneer:				
Ground face veneer	1,300	SF	22.00	28,600
Cast Stone Trim:		N/A		
Masonry flashing	1	LS	1,500.00	1,500
Metals:				
Galv. lintel	20	LF	28.00	560
OH grille frame	2	EA	450.00	900

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<b>Trim:</b>				
Fascia	156	LF	15.00	2,340
Soffit	234	SF	20.00	4,680
Frieze	142	LF	9.00	1,278
<b>Carpentry:</b>				
1/2" Dens glass sheathing	234	SF	2.30	538
Painting	1	LS	4,000.00	4,000
Signage	1	LS	500.00	500
				-----
				80,126
 <b>B2020 EXTERIOR WINDOWS</b>				
		N/A		
				-----
				0
 <b>B2030 EXTERIOR DOORS</b>				
<b>Ext. HM Door, Frame &amp; Hardware:</b>				
Single	5	EA	1,500.00	7,500
<b>Ext. Coiling Door:</b>				
6'x6'	1	EA	2,500.00	2,500
10'x6'	1	EA	3,500.00	3,500
Aluminum louver	1	LS	500.00	500
Dr perim - sealant	156	LF	4.50	702
Paint HM dr & frame - sgl	5	EA	95.00	475
				-----
				15,177
<b>TOTAL B20 - EXTERIOR ENCLOSURE</b>				<b>95,303</b>

**B30 - ROOFING**

**B3010 ROOF COVERINGS**

**Asphalt Shingle Roof System:**

Asphalt shingle	1,600	SF	3.30	5,280
Protection membrane	1,600	SF	1.00	1,600
Typ ridge vent	4	LF	9.50	38
Vented nailable comp. insul panels	1,600	SF	5.00	8,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Snow tab	138	EA	25.00	3,450
Rain diverter	4	LOC	150.00	600
Drip/fascia custom color	156	LF	15.00	2,340
*Excludes roof gutters & downspouts				
Roof edge blocking	156	LF	16.50	2,574
				-----
				23,882
B3020 ROOF OPENINGS		N/A		
				-----
				0
<b>TOTAL B30 ROOFING</b>				<b>23,882</b>

**C. INTERIORS****C10 - INTERIOR CONSTRUCTION**

## C1010 PARTITIONS

Typical CMU Partitions 10':

6" CMU	1,266	SF	18.00	22,788
8" CMU	325	SF	20.00	6,500
Seismic clip @ CMU part. (4' oc)	40	EA	85.00	3,400
Drywall Partition:		N/A		
				-----
				32,688

## C1020 INTERIOR DOORS

N/A

-----  
0

## C1030 FITTINGS

Misc. metals	1,221	GSF	0.25	305
Int. joint sealants	1,221	GSF	0.35	427
Wood trim		N/A		
Misc. rough carpentry	1,221	GSF	0.50	611



DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Service countertops		w/Kitchen Equipment		
Access doors & panels - allow	1	LS	500.00	500
Toilet Accessories:				
Coat hook	4	EA	18.00	72
Grab bars	6	EA	85.00	510
Mirrors - framed (18"wx30"h)	4	EA	165.00	660
Mop and broom holders	1	EA	125.00	125
Sanitary napkin disposal	3	EA	60.00	180
Towel dispenser/disposal	2	EA	225.00	450
Soap dispenser	4	EA	45.00	180
Toilet tissue dispenser	4	EA	44.00	176
Baby changing sta.	2	EA	400.00	800
Locker:		N/A		
Fire Protection Specialties	1	EA	350.00	350
Interior Signage	1	LS	250.00	250
Wall Mtd. Phenolic Toilet Partition:				
Standard - door	1	EA	800.00	800
Barrier free - door	3	EA	1,000.00	3,000
				-----
				9,396

**TOTAL C10 - INTERIOR CONSTRUCTION 42,084**

**C20 - STAIRS**

C2010 STAIR CONSTRUCTION		N/A		
				-----
				0

C2020 STAIR FINISHES		N/A		
				-----
				0

**TOTAL C20 - STAIRS 0**

**C30 - INTERIOR FINISHES**

C3010 WALL FINISHES

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Interior painting	1,221	GSF	2.00	2,442
				----- 2,442
<b>C3020 FLOOR FINISHES</b>				
Concrete slab sealant	1,000	SF	1.00	1,000
				----- 1,000
<b>C3030 CEILING FINISHES</b>				
Framed Gyp Ceiling	576	SF	7.20	4,147
Gyp soffit		N/A		
Veneer plaster - ceiling	576	SF	1.60	922
ACT-1 (2x2)	352	SF	3.00	1,056
Gyp ceiling painting	576	SF	1.00	576
Exposed ceiling structure painting	30	SF	1.50	45
				----- 6,746
<b>TOTAL C30 - INTERIOR FINISHES</b>				<b>10,188</b>

**D. SERVICES**

**D10 - CONVEYING**

N/A

D1010 ELEVATORS & LIFTS

-----  
0

**TOTAL D10 - CONVEYING** **0**

**D20 - PLUMBING**

D2010 PLUMBING

Fixtures:

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Mop sink	1	EA	3,200.00	3,200
Toilet	4	EA	3,200.00	12,800
Urinal	2	EA	3,200.00	6,400
Lav	6	EA	3,200.00	19,200
Water heater	1	EA	3,000.00	3,000
Floor drain	4	EA	750.00	3,000
Grease trap	1	LS	4,000.00	4,000
Water heater	1	LS	3,500.00	3,500
Commercial kitch rough in	1	LS	5,000.00	5,000
Water service	1	LS	2,500.00	2,500
Sanitary service	1	LS	900.00	900
Misc. plumbing	1	LS	2,500.00	2,500
				-----
				66,000

<b>TOTAL D20 - PLUMBING</b>				<b>66,000</b>
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**D30 - HVAC**

D3010 HVAC

230000 HVAC\*

Unit Heater:

Elec unit htr EUH1	3	EA	950.00	2,850
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Cabinet Unit Heater:

Elec cab unit htr ECUH1	2	EA	1,200.00	2,400
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Exhaust Fans:

EF23	1	EA	3,000.00	3,000
EF24	1	EA	3,000.00	3,000

Return:

Registers:

Grilles/registers	7	EA	225.00	1,575
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Dampers:

Volume	7	EA	200.00	1,400
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Ductwork:

Galvanized	290	LBS	12.00	3,480
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17,705

<b>TOTAL D30 - HVAC</b>				<b>17,705</b>
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**D40 - FIRE PROTECTION**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
D4010 FIRE PROTECTION				
Sprinkler system	1,221	GSF	5.00	6,105
				-----
				6,105
<b>TOTAL D40 - FIRE PROTECTION</b>				<b>6,105</b>

**D50 - ELECTRICAL**

## D5010 ELECTRICAL

## POWER DISTRIBUTION

## MAIN SWITCHBOARD

## PANELBOARDS

120-208 Volt 100% Neutral:

Lighting Relay Panel:

100 AMP main lug 1 EA 1,488.00 1,488

There Phase Panelboards:

400 AMP main brkr 1 EA 2,412.00 2,412

277-480 Volt 100% Neutral:

400 AMP main lug 1 EA 4,473.00 4,473

600 AMP main brkr 1 EA 6,138.00 6,138

## 100% NEUTRAL FEEDERS

## FEEDERS - IN EMT

100 AMP 30 LF 33.85 1,016

300 AMP 20 LF 73.25 1,465

## FEEDERS, UNDERGROUND - IN PVC

600 AMP:

Within concession bldg 40 LF 130.10 5,204

Within Site 650 LF 130.10 84,565

Within HS Bldg 270 LF 130.10 35,127

## DISCONNECT SWITCHES - HEAVY DUTY

3 POLE - TO 250 VOLTS

2 POLE

30 AMP F 1 EA 186.00 186

HEAVY DUTY - TO 600 VOLTS

30 AMP NF 3 EA 167.00 501

60 AMP NF 1 EA 278.00 278

100 AMP NF 1 EA 398.00 398

## DRY TYPE TRANSFORMER - NON K RATED

75 KVA 1 EA 5,941.00 5,941

## MOTOR CONTROLS

LOCAL MOTOR CONTROL:

MANUAL STARTERS

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
120 Volt 1 pole	1	EA	100.00	100
WIRING DEVICES				
EMT RACEWAYS				
SWITCHES				
S	4	EA	208.00	832
SS	1	EA	262.00	262
Occupancy sensor	1	EA	235.00	235
PVC RACEWAY - UNDERSLAB				
Duplex	3	EA	452.00	1,356
Duplex GFI	14	EA	475.00	6,650
FIRE ALARM - ADDRESSABLE				
PLENUM CABLE				
Smoke detector	2	EA	574.00	1,148
Heat detector	3	EA	569.00	1,707
LIGHTING FIXTURES				
Type B	5	EA	191.00	955
Type E2	9	EA	220.00	1,980
Type F	1	EA	191.00	191
Type SL7	6	EA	294.00	1,764
Exit	1	EA	281.00	281
2 Head EBU	2	EA	292.00	584
BRANCH CIRCUITS				
IN EMT				
20 AMP CIRCUIT:				
One circuit	9	EA	414.00	3,726
IN PVC - UNDERSLAB				
20 AMP CIRCUIT:				
One circuit	11	EA	413.00	4,543
MOTOR CIRCUITS				
IN EMT				
SINGLE PHASE:				
20 AMP	1	EA	561.00	561
THREE PHASE				
20 AMP	6	EA	606.00	3,636
40 AMP	1	EA	713.00	713
IN PVC-UNDERSLAB				
SINGLE PHASE				
30 AMP	1	EA	507.00	507
THREE PHASE				
30 AMP	1	EA	633.00	633
100 AMP	1	EA	1,169.00	1,169
Temporary electric	1	LS	1,000.00	1,000
				-----
				183,725

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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<b>TOTAL D50 - ELECTRICAL</b>				<b>183,725</b>
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**E. EQUIPMENT & FURNISHINGS**

**E10 - EQUIPMENT**

E1010 COMMERCIAL EQUIPMENT

Food service equipment - allow	1	LS	30,000.00	30,000
				-----
				30,000

<b>TOTAL E10 - EQUIPMENT</b>				<b>30,000</b>
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**E20 - FURNISHINGS**

E 2010 FIXED FURNISHINGS

Recessed entrance mat (2 EA)	64	SF	32.00	2,048
				-----
				2,048

E2020 MOVABLE FURNISHINGS

NIC

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0

<b>TOTAL E20 - FURNISHINGS</b>				<b>2,048</b>
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**G. BUILDING SITEWORK**

**G10 - SITE PREPARATION**

w/Base Bid

0

<b>TOTAL G10 - SITE PREPARATION</b>				<b>0</b>
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**G20 - SITE IMPROVEMENTS**

w/Base Bid

<b>TOTAL G20 - SITE IMPROVEMENTS</b>				<b>0</b>
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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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**G30 - SITE MECHANICAL UTILITIES**

G3010 WATER SUPPLY

8" CLDI water Hydrant		w/Base Bid		
Fire service line		w/Base Bid		
2" Domestic service	120	N/A		
		LF	32.00	3,840
				-----
				3,840

G3020 SANITARY SEWER

Forced main manhole	1	EA	2,500.00	2,500
Forced main pump	1	EA	7,500.00	7,500
2" Forced main	979	LF	34.00	33,286
4" DI vent	32	LF	45.00	1,440
6" SDR	5	LF	50.00	250
Building connection		w/Plumbing		
Grease trap		w/Plumbing		
				-----
				44,976

G3030 STORM SEWER

N/A

-----  
0

G3060 FUEL DISTRIBUTION

N/A

-----  
0

<b>TOTAL G30 - SITE MECHANICAL UTILITIES</b>				<b>48,816</b>
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**G40 - SITE ELECTRICAL UTILITIES**

G4010 ELECTRICAL DISTRIBUTION

Primary ductbank trench and concrete	100	LF	60.00	6,000
				-----

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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6,000

G4020 SITE LIGHTING

W/Base Bid

Lighting Fixtures:

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0

<b>TOTAL G40 - SITE ELECTRICAL UTILITIES</b>				<b>6,000</b>
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