

Schematic Estimate
Fort River Elementary School
Amherst, MA
MSBA PROJECT NO.
10-Jan-23

Drawings Dated: December 9, 2023
Designer: DiNisco Design, Inc.
Estimator: A. M. Fogarty & Associates, Inc.

NEW BUILDING				\$53,406,493
SITework				\$11,446,983
BUILDING DEMOLITION	82,000	gsf	\$8.00	\$656,000
HAZARDOUS WASTE REMOVAL				\$1,263,658
TOTAL DIRECT COST (escalated to the mid point of construction)				----- \$66,773,134
Hard Bid, Design Bid Build, Ch. 149:				
DESIGN CONTINGENCY		7.5%		\$5,007,985
ESCALATION (summer 2024)		9.0%		\$6,460,301
GENERAL CONDITIONS		4.15%		\$3,247,019
GENERAL REQUIRMENTS		2%		\$1,833,490
BUILDING PERMIT		waived		
BOND AND GL INSURANCE		1.75%		\$1,458,134
PROFIT		2%		\$1,907,551
TOTAL CONSTRUCTION COST				----- \$86,687,614
COST PER S.F.				\$819.74

ALTERNATES:

ALTERNATE NO. 1 - IN LIEU OF UNITIZED PRECAST CONCRETE MASONRY SUBSTITUTE PORCELAIN RAINER PANEL	\$853,230
ALTERNATE NO. 2 - IN LIEU OF ALCUOBOND COMPOSITE PANEL SUBSTITUTE ARCHITECTURAL CONCRETE GLAZED UNIT	(\$24,553)
ALTERNATE NO. 3 - TRIPLE PANED GLASS IN LIEU OF SPECIFIED DOUBLE PANED THROUGHOUT	\$352,696
ALTERNATE NO. 4 - HEAT MIRROR GLASS IN LIEU OF SPECIFIED DOUBLE PANED THROUGHOUT	\$102,870
ALTERNATE NO. 5 - ADD 2" CONTINUOUS RIGID UNDER SLAB INSULATION THROUGHOUT	\$221,636

PROJECT: Fort River Elementary School
 LOCATION: Amherst, MA
 CLIENT: DiNisco Design Architects and Planners
 DATE: 10-Jan-23

NO. OF SQ. FT.: 105,750
 COST PER SQ. FT.: \$613.27

NEW ELEMENTARY SCHOOL

No.: 22025

SUMMARY

	<u>TOTAL</u>	<u>PERCENT OF PROJECT</u>	<u>COST PER SF</u>
A. SUBSTRUCTURE			
A10 - FOUNDATIONS			
A1010 STANDARD FOUNDATIONS	3,366,239	5%	31.83
A1020 SPECIAL FOUNDATIONS	0	0%	0.00
A1030 SLAB ON GRADE	797,266	1%	7.54
A20 - BASEMENT CONSTRUCTION			
A2010 BASEMENT EXCAVATION	0	0%	0.00
B. SHELL			
B10 - SUPERSTRUCTURE			
B1010 FLOOR CONSTRUCTION	3,253,646	5%	30.77
B1020 ROOF CONSTRUCTION	2,302,449	4%	21.77
B20 - EXTERIOR ENCLOSURE			
B2010 EXTERIOR WALLS	4,618,374	7%	43.67
B2020 EXTERIOR WINDOWS	2,247,135	3%	21.25
B2030 EXTERIOR DOORS	147,806	0%	1.40
B30 - ROOFING			
B3010 ROOF COVERINGS	1,637,937	3%	15.49
B3020 ROOF OPENINGS	7,500	0%	0.07
C. INTERIORS			
C10 - INTERIOR CONSTRUCTION			
C1010 PARTITIONS	4,078,665	6%	38.57
C1020 INTERIOR DOORS	689,150	1%	6.52
C1030 FITTINGS	1,097,287	2%	10.38
C20 - STAIRS			
C2010 STAIR CONSTRUCTION	336,500	1%	3.18
C2020 STAIR FINISHES	77,138	0%	0.73
C30 - INTERIOR FINISHES			
C3010 WALL FINISHES	1,159,256	2%	10.96
C3020 FLOOR FINISHES	1,037,504	2%	9.81
C3030 CEILING FINISHES	1,535,227	2%	14.52
D. SERVICES			
D10 - CONVEYING			
D1010 ELEVATORS & LIFTS	264,000	0%	2.50
D20 - PLUMBING			
D2010 PLUMBING	2,454,125	4%	23.21

Fort River Elementary School	<u>TOTAL</u>	<u>PERCENT OF PROJECT</u>	<u>COST PER SF</u>
D30 - HVAC			
D3010 HVAC	11,264,869	17%	106.52
D40 - FIRE PROTECTION			
D4010 SPRINKLERS	818,365	1%	7.74
D50 - ELECTRICAL			
D5010 ELECTRICAL SERVICE & DISTRIBUTION	7,910,861	12%	74.81
E. EQUIPMENT & FURNISHINGS			
E10 - EQUIPMENT			
E1010 COMMERCIAL EQUIPMENT	685,230	1%	6.48
E1090 OTHER EQUIPMENT	196,704	0%	1.86
E20 - FURNISHINGS			
E 2010 FIXED FURNISHINGS	1,423,261	2%	13.46
E2020 MOVABLE FURNISHINGS	0	0%	0.00
F. SPECIAL CONSTRUCTION & DEMOLITION			
F10 - SPECIAL CONSTRUCTION			
F1010 SPECIAL STRUCTURES	0	0%	0.00
F20 - SELECTIVE BUILDING DEMOLITION			
F2010 BUILDING ELEMENTS DEMOLITION	0	0%	0.00
F2020 HAZARDOUS COMPONENTS ABATEMENT	0	0%	0.00
G. BUILDING SITEWORK			
G10 - SITE PREPARATION			
G1010 SITE CLEARING	869,042	1%	8.22
G1020 SITE DEMOLITION & RELOCATIONS	0	0%	0.00
G1030 SITE EARTHWORK	1,196,979	2%	11.32
G1040 HAZARDOUS WASTE REMEDIATION	0	0%	0.00
G20 - SITE IMPROVEMENTS			
G2010 ROADWAYS	1,124,117	2%	10.63
G2020 PARKING LOTS	0	0%	0.00
G2030 PEDESTRIAN PAVING	918,227	1%	8.68
G2040 SITE DEVELOPMENT	2,605,028	4%	24.63
G2050 LANDSCAPING	1,738,832	3%	16.44

Fort River Elementary School

	<u>TOTAL</u>	<u>PERCENT OF PROJECT</u>	<u>COST PER SF</u>
G30 - SITE MECHANICAL UTILITIES			
G3010 WATER SUPPLY	249,938	0%	2.36
G3020 SANITARY SEWER	222,716	0%	2.11
G3030 STORM SEWER	959,717	1%	9.08
G3040 HEATING DISTRIBUTION	0	0%	0.00
G3050 COOLING DISTRIBUTION	0	0%	0.00
G3060 FUEL DISTRIBUTION	116,525	0%	1.10
G3090 OTHER SITE MECHANICAL UTILITIES	0	0%	0.00
G40 - SITE ELECTRICAL UTILITIES			
G4010 ELECTRICAL DISTRIBUTION	914,664	1%	8.65
G4020 SITE LIGHTING	531,201	1%	5.02
G4030 SITE COMMUNICATIONS & SECURITY	0	0%	0.00
G4090 OTHER SITE ELECTRICAL UTILITIES	0	0%	0.00
G90 - OTHER SITE CONSTRUCTION			
G9090 OTHER SITE SYSTEMS	0	0%	0.00
TOTAL DIRECT COST	----- 64,853,476	----- 100%	----- 613.27

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
<u>A. SUBSTRUCTURE</u>				
A10 - FOUNDATIONS				
A1010 STANDARD FOUNDATIONS				
<u>033000 CAST IN PLACE CONCRETE</u>				
Column Footing (141 ea):				
3000 psi, NW, (incl. placement)	570	CY	318.00	181,260
Formwork	9,679	SFCA	15.50	150,025
Rebar	42,750	LBS	1.65	70,538
	<i>*unit cost \$704.95</i>			
Perim Wall Footing (1' x 2'-0" - 874LF):				
3000 psi, NW, (incl. placement)	69	CY	318.00	21,942
Formwork	1,748	SFCA	15.00	26,220
Rebar	5,175	LBS	1.65	8,539
	<i>*unit cost \$821.75</i>			
Perim. Frost Wall 16" x 4' deep (1,300 lf):				
3000 psi, NW, (incl. placement)	257	CY	335.00	86,095
Formwork - 4'	10,400	SFCA	15.00	156,000
Brick Shelf/stem wall	1,300	LF	24.00	31,200
Reinforcing steel	38,550	LBS	1.65	63,608
	<i>*unit cost \$1,310.90</i>			
Grade Beam @ Int. Brace Frame - (2'x2'-6" - 593 lf):				
3000 psi, NW, (incl. placement)	110	CY	335.00	36,850
Formwork	3,558	SFCA	18.00	64,044
Rebar	10,450	LBS	1.65	17,243
	<i>*unit cost \$1,073.97</i>			
Pier/pilaster	45	CY	1,100.00	49,500
Café platform stair 18"tread/6"riser	91	LFR	140.00	12,740
Stage and Ramp Foundations	25	CY	1,100.00	27,500
Int Mechanical pads	1	LS	5,000.00	5,000
18" Elevator mat	7	CY	750.00	5,250
Elev sump pit	1	EA	850.00	850
12" Elevator pit wall 5'H	7	CY	1,250.00	8,750
Concrete Protection and Clean up and Mobilization	1	LS	75,000.00	75,000
Anchor bolts and grouting	141	EA	235.00	33,135
<u>072100 INSULATION</u>				
2" Rigid ext. found. insul	5,200	SF	3.42	17,784
<u>070001 DAMPPROOF., WATERPROOF. & CAULKING*</u>				
Foundation dampproofing	5,200	SF	2.05	10,660
Elev. pit waterproofing	1	EA	7,500.00	7,500
<u>310000 EARTHWORK</u>				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Preload:				
4' Granular Fill - import granular import	13,061	CY	32.00	417,952
Relocated Stockpile and prep for reuses	13,061	CY	12.00	156,732
Proof roll	50,000	SF	0.80	40,000
Building Earthwork:				
Bldg Cut - 12" depth avg	1,851	CY	9.50	17,585
Dispose spoil	2,777	TONS	22.00	61,083
Structural Fill - reuse	3,646	CY	24.00	87,504
Structural Fill - import	3,554	CY	48.00	170,592
Foundation excavation	3,800	CY	14.00	53,200
Foundation backfill	3,800	CY	14.00	53,200
Dewatering	1	LS	35,000.00	35,000
Perforated Underslab Drain:				
Under slab 4" Perf Drain	48,961	SF	1.00	48,961
Perim fnd drain	1,300	LF	44.00	57,200
Rammed Aggregate Piers	50,000	SF	20.00	1,000,000

				3,366,239
A1030 SLAB ON GRADE				
<u>310000 EARTHWORK</u>				
Reuse - 12" Gravel base	1,750	CY	24.00	42,000
Excavate plumbing trenches	47,239	SF	1.25	59,049
<u>033000 CAST IN PLACE CONCRETE</u>				
6" Slab on Grade - Typ:				
4,000 psi, NW, (incl. placement)	875	CY	335.00	293,125
#5 @ 12" OC E/W	123,175	LBS	1.80	221,715
Control Joint	3,200	LF	2.60	8,320
Depressed slab edge	200	LF	5.50	1,100
Trowel Finish	47,239	SF	2.38	112,429
*unit cost \$13.48				
Stegro vapor barrier (15 mil)	47,239	SF	1.04	49,129
<u>072100 INSULATION</u>				
2" Rigid Slab Insul - 2' wide perimeter	2,600	SF	4.00	10,400

				797,266
TOTAL A10 FOUNDATIONS				4,163,505

B. SHELL

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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B10 - SUPERSTRUCTURE

B1010 FLOOR CONSTRUCTION

051200 STRUCTURAL STEEL

Floor Construction : Structural Steel	452.2	TONS	5,100.00	2,306,293
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Miscellaneous: Shear stud	5,600	EA	5.35	29,960
Moment Conn	16	EA	825.00	13,200

033000 CAST IN PLACE CONCRETE

3 1/2" NW Deck fill(6x6 w2.9xw2.9)	56,038	SF	8.80	493,134
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053100 STEEL DECKING

3" x 18 Ga. Comp Deck	56,038	SF	6.80	381,058
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078100 FIREPROOFING

Fireproofing	1	LS	30,000.00	30,000
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3,253,646

B1020 ROOF CONSTRUCTION

033000 CAST IN PLACE CONCRETE

3 1/2" NW Deck fill (6x6 w2.9xw2.9)				
F 5.0	2,904	SF	9.00	26,136
F5.5	1,359	SF	9.00	12,231
F 6.5	2,589	SF	9.00	23,301

051200 STRUCTURAL STEEL

Roof Frame (inc. canopies and roof screen hss)	372.8	TONS	5,100.00	1,901,207
Shear stud	700	EA	5.35	3,745
Moment Conn	24	EA	825.00	19,800

053100 STEEL DECKING

Flat Roof:				
R 1.5 1 1/2" 18 ga Roof Deck	40,502	SF	5.90	238,962
R 1.5 1 1/2" 18 ga Canopy Roof Deck	1,800	SF	5.90	10,620
R3.0A - 3" x 20/20 Ga acoustical roof deck	1,739	SF	13.50	23,477

F5.0 - 1 1/2" x 18 Ga comp roof deck	2,904	SF	5.95	17,279
F5.5 - 1 1/2" x 18 Ga comp roof deck	1,359	SF	5.95	8,086
F6.5 - 3" x 18 Ga comp roof deck	2,589	SF	6.80	17,605

2,302,449

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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TOTAL B10 SUPERSTRUCTURE				5,556,094
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B20 - EXTERIOR ENCLOSURE

B2010 EXTERIOR WALLS

040001 MASONRY*

Masonry Veneer :

Brick Veneer	15,648	SF	41.00	641,568
Unitized Precast Concrete 8" x 24"	13,384	SF	65.00	869,960
Install - 3" Rigid Insul(072100 furnish)	29,032	SF	2.25	65,322

Architectural Precast Concrete:

Foundation base - typical	390	LF	125.00	48,750
Foundation base - curtainwall	135	LF	200.00	27,000

S.S. Masonry flashing	2,700	LF	24.00	64,800
Staging		inc. w/ unit		

050001 MISCELLANEOUS & ORNAMENTAL IRON*

Galv, loose lintel - Furnished	790	LF	48.00	37,920
Dumpster Enclosure fence	14	LF	350.00	4,900
Dumpster db gate	24	LF	350.00	8,400

092116 GYPSUM WALLBOARD

Exterior Wall:

8" x 16 Ga. stud @ typ wall	33,948	SF	12.75	432,837
8" x 16 Ga. stud @ interstial sloped area	1,892	SF	12.75	24,123
6" & 4" x 16 Ga. Dbl stud @ gym	4,300	SF	18.50	79,550

1/2" Dens glass sheathing	40,140	SF	3.10	124,434
5/8" Gyp Finish	3,900	SF	2.50	9,750

Sloped Fascia/Soffit Framing :

Fascia and Soffit Framing	2,550	SF	9.20	23,460
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Canopies:

Ceiling Framing	1,535	SF	9.00	13,815
1/2" Dens glass sheathing	1,535	SF	3.10	4,759

061000 ROUGH CARPENTRY

Roof edge blocking		W / B3010		
1/2" Ply sheathing @ Ext Ceiling/Soffit Framing	2,550	SF	6.75	17,213

070001 DAMPPROOF., WATERPROOF. & CAULKING*

Misc Ext Wall Control joints	1	LS	15,000.00	15,000
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071326 AIR & VAPOR BARRIERS

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Adhered air & vapor barrier: Typical wall	40,140	SF	10.25	411,435
<u>072100 INSULATION</u>				
Typ Exterior Wall: Furnish for Masonry - 3" Rigid Insulation	29,032	SF	2.40	69,677
Furnish for Panels/Interstitial - 3" Rigid Insulation	11,108	SF	2.40	26,659
2" Closed cell spary foam - stud cavity	40,140	SF	3.90	156,546
6/3.9.02 Spray insul (@ perim deck flute/ roof edge	1	LS	25,000.00	25,000
<u>070002 ROOFING AND FLASHING*</u>				
Mechanical Wells: Roof Membrane	593	SF	15.00	8,895
Install - 3" Rigid Insul(072100 furnish)	593	SF	2.40	1,423
<u>074000 WALL PANELS & TRIM</u>				
Architectural Wall Panel & Fascia: C - Alum comp. Window panel	417	SF	95.00	39,615
D - Phenolic Rainscreen	4,047	SF	110.00	445,170
E - Alum comp. panel	1,598	SF	85.00	135,830
E - Alum comp. Window panel	651	SF	85.00	55,335
G - Phenolic Rainscreen	667	SF	110.00	73,370
Install - 3" Rigid Insul(072100 furnish)	7,380	SF	2.00	14,760
Sloped Roof Edge Panel: Alum Composite Fascia panel	1,778	SF	100.00	177,800
Prefinished Alum Soffit Panel	2,550	SF	55.00	140,250
Canopies: Prefinished Alum Soffit Panel	1,535	SF	55.00	84,425
Aluminum column cover	40	VLF	475.00	19,000
Roof Screen (TS Frame w/Super Struct): F - Centria "CS Series"	2,743	SF	68.00	186,524
*Includes girt fastening sys & excludes acoustic panels				
Furnish Metal Sill (Install by 080001): Curtain Wall	150	LF	20.00	3,000
Alum. Window	730	LF	20.00	14,600
*Includes Sections 074213 - 074247				
<u>090007 PAINTING</u>				
Misc. ext. painting	1	LS	5,000.00	5,000
<u>101400 IDENTIFYING DEVICES</u>				
16" Canopy mtd letter	25	EA	420.00	10,500

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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4,618,374

B2020 EXTERIOR WINDOWS

061000 ROUGH CARPENTRY

P.T. blocking 2x8- perim ext wind open.	6,060	LF	11.50	69,690
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071326 AIR & VAPOR BARRIERS

Flex flashing - perim ext wind open.	6,060	LF	12.25	74,235
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070001 DAMPPROOF., WATERPROOF. & CAULKING*

Exterior sealants - perim. ext wind open.	6,060	LF	13.00	78,780
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080001 METAL WINDOWS*

Glazed Window Systems:

7 1/2" Alum Curtain Wall	1,199	SF	165.00	197,835
7 1/2" Alum Curtain Wall w/ Horz Accent Mullions	3,818	SF	180.00	687,240
Aluminum Storefront - Entries sidelight and transom	291	SF	135.00	39,285
Aluminum Windows	6,218	SF	140.00	870,520

Allow:

Safety Film - field applied	1,000	SF	32.00	32,000
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Extruded Alum Air foil (4 row)	1,153	LF	150.00	172,950
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Premium Install Mtl Ext Sill (Furnished by 074213)

Curtain Wall	150	LF	20.00	3,000
Alum. Window	730	LF	20.00	14,600

109000 MISCELLANEOUS SPECIALTIES

Misc Alum louvers	56	SF	125.00	7,000
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2,247,135

B2030 EXTERIOR DOORS

061000 ROUGH CARPENTRY

P.T. - perim blocking HM open	45	LF	11.50	518
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070001 DAMPPROOF., WATERPROOF. & CAULKING*

Exterior sealants - perim. HM open	45	LF	11.75	529
Adhered membrane - perim. HM open	45	LF	13.00	585

080001 METAL WINDOWS*

8' Alum. Door, Frame, Glass, Glazing & Hardware:

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Entry - dbl	5	PR	12,500.00	62,500
Gym - dbl	1	EA	12,500.00	12,500
Kindergarten - sgl	5	EA	6,500.00	32,500
Music Rm - sgl	1	EA	6,500.00	6,500
Stair - sgl	1	EA	6,500.00	6,500
Premium 4 w/Safety Glazing (@ inside Face :				
8'H Entry - dbl	6	PR	960.00	5,760
8'H Gym Egress - sgl	7	EA	500.00	3,500
<u>081113 HOLLOW METALWORK</u>				
Ext. HM Frame:				
Single Door 7'H	1	EA	320.00	320
Double Door 7'H	1	EA	345.00	345
7'H Insulated HM Doors :				
Roof access - sgl	1	EA	550.00	550
Insul mtl - dbl	1	EA	1,100.00	1,100
<u>087100 DOOR HARDWARE</u>				
Card reader		w/Elec		
Hold open		w/Elec		
Entry auto opener	1	LOC	9,000.00	9,000
Exterior Hardware Set (@ HM Door:				
Roof access - sgl	1	EA	2,000.00	2,000
MTL - dbl	1	EA	2,500.00	2,500
<u>090007 PAINTING*</u>				
Exterior Doors:				
Paint HM door & Frame - sgl	1	EA	200.00	200
Paint HM door & Frame - dbl	1	EA	400.00	400

				147,806
TOTAL B20 - EXTERIOR ENCLOSURE				7,013,315

B30 - ROOFING

B3010 ROOF COVERINGS

061000 ROUGH CARPENTRY

Blocking & Ply @:				
3/4" PT Plywood - overhang T&B	2,940	SF	4.50	13,230
Typ Base flashing	239	LF	18.00	4,302
Typ Roof edge	1,518	LF	19.50	29,601
Canopy edge	267	LF	18.00	4,806
Built-in gutter	74	LF	30.00	2,220
Expansion joint blocking	85	LF	48.00	4,080
Step Flash blocking	132	LF	32.00	4,224

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Mech equip - allow	1	LS	15,000.00	15,000
<u>070002 ROOFING AND FLASHING*</u>				
Wall & parapet Membrane Sys	inc. w/ exterior wall			
Main Roof Membrane:				
PVC Roofing	51,500	SF	12.75	656,625
1/2" Cover board	51,500	SF	1.85	95,275
8" Rigid insul	51,000	SF	9.50	484,500
Air & vapor barrier	44,148	SF	2.25	99,333
Peel & stick @ conc deck fill	6,852	SF	4.50	30,834
Membrane Flashing	7,200	SF	15.00	108,000
Walkway pads (3'3" W)	2,500	SF	5.25	13,125
Main Roof Membrane Flashing:				
Flash roof drain -	30	EA	220.00	6,600
Roof Expasnion joint	85	LF	38.00	3,230
Aluminum Flashing:				
Base flashing	239	LF	27.75	6,632
Typ Roof edge	1,518	LF	24.00	36,432
Built-in gutter	74	LF	50.00	3,700
Step Flash	132	LF	30.00	3,960
Snow Guard rail	75	LF	68.00	5,100
Canopy coping	297	LF	24.00	7,128

				1,637,937
 B3020 ROOF OPENINGS				
Roof Ladder	1	EA	7,500.00	7,500

				7,500
TOTAL B30 ROOFING				1,645,437

C. INTERIORS

C10 - INTERIOR CONSTRUCTION

C1010 PARTITIONS

040001 MASONRY*

Entry Vest Vener:				
Brick Veneer - Vestibule	173	SF	45.00	7,785
CMU Partition:				
4" CMU - Perimeter Recieving - 16'	1,826	SF	34.25	62,541
7 - 8" CMU - 16'	3,833	SF	36.50	139,905
7A - 8" 1 hr CMU - 14'	2,665	SF	42.00	111,930

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
4" Ground Face Veneer: Gym - 12'8"	2,938	SF	39.00	114,582
Premium Finish: Kitchen GF	2,000	SF	7.50	15,000
<u>050001 MISCELLANEOUS & ORNAMENTAL IRON*</u>				
Half Wall TS Support	200	SF	15.00	3,000
CMU part. angle brace frame - 4' 0C	140	EA	220.00	30,800
Op Partition support	42	LF	165.00	6,930
Loose lintels	125	LF	45.00	5,625
<u>061000 ROUGH CARPENTRY</u>				
Interior blocking	105,750	GSF	0.65	68,738
Misc. rough carpentry	105,750	GSF	0.50	52,875
Plywood Backer Bd Premium @: Ceramic Wall Tile - bathroom only	7,959	SF	4.60	36,611
Elec rms 8'	300	SF	16.00	4,800
<u>070001 DAMPPROOF., WATERPROOF. & CAULKING*</u>				
Int joint sealants	105,750	GSF	0.85	89,888
<u>078100 FIREPROOFING</u>				
Firestopping	105,750	GSF	0.30	31,725
<u>081113 HOLLOW METALWORK</u>				
Fire Rated Storefront - Stair A	341	SF	165.00	56,265
Stair (fire rated) - 2.5 transom'	346	SF	165.00	57,090
Stair (fire rated) - 7' sidelight	114	SF	165.00	18,810
Stair (fire rated) - SF	371	SF	165.00	61,215
HM Nurse - 4'	37	SF	48.00	1,776
Security Window	2	EA	6,200.00	12,400
<u>080001 METAL WINDOWS*</u>				
Interior Aluminum Curtainwall:: Curtainwall - Cafe	660	SF	140.00	92,400
Curtainwall - Main Lobby	103	SF	140.00	14,420
Curtainwall - Main Office	329	SF	140.00	46,060
Curtainwall - Media Center	225	SF	140.00	31,500
Interior Aluminum Storefront: Alum Storefront - 7' Media Center	130	SF	120.00	15,600
Alum Storefront - Cafe	300	SF	120.00	36,000
Alum Storefront - Gymnasium	56	SF	120.00	6,720
Alum Storefront - Music Rm	34	SF	120.00	4,080
Alum Storefront - North Vest.	21	SF	120.00	2,520
Alum Storefront Principal - 7' (not elevated)	52	SF	120.00	6,240
<u>080002 GLASS AND GLAZING*</u>				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Butt Glass Transom Int Window (inc glazing frame):				
Butt Glass Trasom - Art Rm	100	SF	115.00	11,500
Butt Glass Trasom - Cafe	108	SF	115.00	12,420
Project Area (12 loc)				
Butt Glass Clerestory	1,368	SF	115.00	157,320
Fire Rated Stair Glazing:				
Fire Rated Storefront - Stair A	341	SF	190.00	64,790
Stair (fire rated) - 2.5' transom	346	SF	190.00	65,740
Stair (fire rated) - 7' sidelight	114	SF	190.00	21,660
Stair (fire rated) - SF	371	SF	190.00	70,490
<u>092116 GYPSUM WALLBOARD</u>				
Drywall Partitions (NIC cement & ply Backer Bd):				
Single sided/chase	15,557	SF	14.05	218,576
Type 2	28,838	SF	18.80	542,154
Type 3	1,532	SF	22.80	34,930
Type 3 Gym	3,007	SF	22.80	68,560
Type 3A 1 hr	11,024	SF	22.80	251,347
Type 4D	48,472	SF	22.10	1,071,231
Type 10 shaft wall	1,200	SF	24.00	28,800
Type 11	404	SF	14.05	5,676
Type 11B	241	SF	14.05	3,386
Alum Column Cover - 12' Cafe	24	VLF	410.00	9,840
Recessed picture rail	650	LF	45.00	29,250
Abuse Resistant premium	15,000	SF	3.15	47,250
Fry Regret Premium	1	LS	15,000.00	15,000
Load, Distribute and Misc.	105,750	SF	0.50	52,875
*Partitions include sound attenuation, tape & joint compound finish				
<u>102226 OPERABLE PARTITION</u>				
Platfrom Op Partition - 10'h	417	SF	120.00	50,040

				4,078,665
<u>C1020 INTERIOR DOORS</u>				
<u>081113 HOLLOW METALWORK</u>				
HM Door Frame:				
HM Door Frame - sgl	137	EA	270.00	36,990
HM Door Frame - dbl	16	EA	295.00	4,720
H.M. Sidelight and Transom:				
HM Sidelight (73 ea)	1022	SF	48.00	49,056
HM Transom (4 ea)	48	SF	48.00	2,304
<u>081416 WOOD DOORS</u>				

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Maple Wood Door - Prefinished(NIC Glass) :				
Admin - sgl	15	EA	750.00	11,250
Corridor - dbl	3	EA	1,500.00	4,500
Education Program - sgl	67	EA	750.00	50,250
Kitchen - dbl	1	EA	1,400.00	1,400
Kitchen - sgl	4	EA	700.00	2,800
Media Center - dbl	2	EA	1,500.00	3,000
Media Center - sgl	1	EA	750.00	750
MEP - dbl	2	EA	1,100.00	2,200
MEP - sgl	18	EA	550.00	9,900
Music/Practice - sgl	5	EA	800.00	4,000
Stair - dbl	7	EA	1,450.00	10,150
Stair - sgl	2	EA	875.00	1,750
Storage- bi parting	1	EA	1,000.00	1,000
Storage- dbl	1	EA	1,050.00	1,050
Storage- sgl	3	EA	525.00	1,575
Toilet Rm - sgl	21	EA	575.00	12,075

087100 DOOR HARDWARE

Interior Hardware :				
Admin - sgl	15	EA	1,200.00	18,000
Corridor - dbl	3	EA	4,500.00	13,500
Education Program - sgl	67	EA	1,200.00	80,400
Kitchen - dbl	1	EA	2,000.00	2,000
Kitchen - sgl	4	EA	1,200.00	4,800
Media Center - dbl	2	EA	3,500.00	7,000
Media Center - sgl	1	EA	2,200.00	2,200
MEP - dbl	2	EA	1,500.00	3,000
MEP - sgl	18	EA	925.00	16,650
Music/Practice - sgl	5	EA	2,000.00	10,000
Stair - dbl	7	EA	4,500.00	31,500
Stair - sgl	2	EA	3,200.00	6,400
Storage- bi parting	1	EA	500.00	500
Storage- dbl	1	EA	950.00	950
Storage- sgl	3	EA	600.00	1,800
Toilet Rm - sgl	21	EA	875.00	18,375

080001 METAL WINDOWS*

Aluminum Frame, Door, Glass, Glazing:				
Alum. Vest - dbl	4	EA	11,000.00	44,000
Alum. Cafe - dbl	2	EA	8,500.00	17,000
Alum. Gym - dbl	2	EA	8,500.00	17,000
Aluminum Door Frame:				
Alum. Transom	98	SF	125.00	12,250
Alum. Sidelight (8 ea)	168	SF	125.00	21,000

083323 SPECIAL DOORS

Access panels	1	LS	35,000.00	35,000
Prefinised Alum Sliding Door System - 10'h	210	SF	130.00	27,300
Servery Bi Parting Doors 18' x 9'	1	EA	5,000.00	5,000
Servery Service Counter	1	EA	4,500.00	4,500

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Overhead Door - gym storage	1	EA	6,500.00	6,500
<u>080002 GLASS AND GLAZING*</u>				
Sidelight & Transom Frame Glazing:				
Type #1 1/4" Clear	960	SF	38.00	36,480
Type #4 1/2" Acoustical	110	SF	95.00	10,450
<u>090007 PAINTING*</u>				
HM Door Frame - sgl	137	EA	125.00	17,125
HM Door Frame - dbl	16	EA	150.00	2,400
Paint H.M Windows, Sidelites and Transoms	1,070	SF	5.00	5,350

				689,150
 C1030 FITTINGS				
<u>050001 MISCELLANEOUS & ORNAMENTAL IRON*</u>				
Media Corrior Stair/Ramp Guard Railing	30	LF	425.00	12,750
Media Corrior Stair/Ramp Wall Railing	24	LF	250.00	6,000
Ramp hand railing - dbl platform	40	LF	235.00	9,400
PT equip support	2	RM	5,000.00	10,000
Gyp equip supports	1	LS	10,000.00	10,000
Café Platform equip. supports	1	LS	5,000.00	5,000
Misc. metals	105,750	GSF	1.25	132,188
<u>062000 FINISH CARPENTRY</u>				
Wood Window sill/apron	730	LF	62.00	45,260
Cafeteria:				
Fin tube bench enclosure	58	LF	450.00	26,100
Lobby:				
Cantilvered wood bench	28	LF	400.00	11,200
Transon Running Trim:				
Project Area Surround	1,096	LF	75.00	82,200
Servery Surround trim	82	LF	75.00	6,150
Art Rm surround trim	92	LF	75.00	6,900
Servery door head	18	LF	125.00	2,250
Main Office :				
Security Window Millwork frame	2	EA	2,500.00	5,000
Solid surface Transaction counter	10	LF	250.00	2,500
Quartz counter only 2'8"D	22	LF	385.00	8,470
Lobby desk front panel	30	SF	55.00	1,650
PL Counter	15	LF	145.00	2,175
18" Open wall cabinet	6	LF	190.00	1,140
Wall Cabinet	3	LF	230.00	690
Office Base cubbies(nic counter)	12	LF	350.00	4,200
Mailbox Unit	15	LF	750.00	11,250

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Media Center:				
Bookcase 3' H	60	LF	365.00	21,900
Bookcase 7' H	108	LF	800.00	86,400
Circ desk w/ book drop (eng. Stone top)	20	LF	950.00	19,000
30" Tall storage	1	EA	1,850.00	1,850
Typ Wall cabinet	28	LF	215.00	6,020
PL Counter	32	LF	180.00	5,760
Base cab(nic counter)	32	LF	245.00	7,840
Display Case - Complete:				
Lobby (4' x 5'-6" H recessed)	1	EA	5,000.00	5,000
Utility & closet shelving-allow	1	LS	8,000.00	8,000
<u>080002 GLASS AND GLAZING</u>				
PT mirror (4'X6')	48	SF	68.00	3,264
<u>102113 COMPARTMENTS & CUBICLES</u>				
Solid Plastic Toilet Partitions:				
Urinal screen	1	EA	345.00	345
Std. partition	6	EA	1,390.00	8,340
HC partition	6	EA	1,675.00	10,050
<u>102813 TOILET ACCESSORIES</u>				
Class / Work Rm Install Owner Furnished Accessories:				
Paper towel dispenser	39	EA	42.00	1,638
Soap dispenser	39	EA	42.00	1,638
Toilet Room Install Owner Furnished Accessories:				
Toilet tissue dispenser	34	EA	42.00	1,428
Soap dispenser	37	EA	42.00	1,554
Paper towel dispenser	29	EA	42.00	1,218
Furnish & Install Toilet Rm Accessories:				
Tilt mirror @ wall hung lav	37	EA	265.00	9,805
Toilet grab bars	58	EA	110.00	6,380
San. prod. dispenser	8	EA	85.00	680
San. prod. disposal	8	EA	60.00	480
Coat hook	34	EA	22.00	748
Hand Dryer (per elec)	39	EA	975.00	38,025
Changing sta - power operated:				
Health Office	1	EA	2,000.00	2,000
OT/PT Therapy swing	2	EA	4,000.00	8,000
Janitor shelf/mop holder	3	EA	200.00	600
<u>101100 MARKERBOARDS & TACKBOARDS</u>				
16' MB	46	EA	1,792.00	82,432
8' MB	6	EA	896.00	5,376

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
6' MB	64	EA	672.00	43,008
4' TB	55	EA	299.20	16,456
6' TB	7	EA	448.80	3,142
8' TB	2	EA	598.40	1,197
Tackable Surface w/ Hardwood Frame - Art Corridor	507	SF	28.00	14,196

*Casework -Sliding marker bd is included with assembly unit cost

109000 MISCELLANEOUS SPECIALTIES

Health office privacy curtain	4	EA	2,100.00	8,400
Project area locker (15"w x 15"d x 2'h)	888	EA	165.00	146,520
Kitchen staff locker(12"wx15" D x 6'h)	10	EA	295.00	2,950
Custodian staff(12"wx15" D x 6'h)	5	EA	295.00	1,475
Staff locker base	15	LF	65.00	975
SS kitchen corner guards	1	LS	5,000.00	5,000
Misc Wall & corner guards	1	LS	5,000.00	5,000
Fire extinguisher & cab	20	EA	510.00	10,200
Fire extinguisher & bracket	5	EA	385.00	1,925
AED cabinets	2	EA	750.00	1,500

*Includes Section 102600 & 105113

101400 IDENTIFYING DEVICES

Int. Alum ID - Pin Letter :				
10" Alum Pin Lettering	7	EA	310.00	2,170
10" Alum Pin Lettering - ceiling hung	6	EA	1,000.00	6,000
12" Alum Pin Lettering	9	EA	335.00	3,015
14" Alum Pin Lettering	17	EA	365.00	6,205
16" Alum Pin Lettering	11	EA	400.00	4,400
6" Alum Pin Lettering	19	EA	295.00	5,605
Varies Alum Pin Lettering - media center	88	EA	300.00	26,400
Door Sigange	153	EA	185.00	28,305
Code/way finding signage	1	LS	5,000.00	5,000
Building directory		nic		
Dedication plaque		nic		

1,097,287

TOTAL C10 - INTERIOR CONSTRUCTION				5,865,101
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C20 - STAIRS

C2010 STAIR CONSTRUCTION

050001 MISCELLANEOUS & ORNAMENTAL IRON*

Metal Pan Stair & Rails- 6' Tread:				
Stair A - straight full flt	2	FLT	45,000.00	90,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Stair B -switchback full flt	2	FLT	52,000.00	104,000
Stair C - switchback full flt	2	FLT	45,000.00	90,000
Open Grate Metal Landing & Tread Stair & Rails: Roof access - switchback full flt	1	FLT	28,500.00	28,500
<u>033000 CAST IN PLACE CONCRETE</u>				
Conc. Pan Fill @: Metal pan stair - full flt	6	FLTS	4,000.00	24,000
				----- 336,500
C2020 STAIR FINISHES				
<u>062000 FINISH CARPENTRY</u>				
Cafe platform wood stair tread 18"	83	LFR	85.00	7,055
Cafe platform wood stair riser	83	LFR	40.00	3,320
<u>090005 RESILIENT FLOORING*</u>				
Stair -Full Flt(5 FLT): Rubber treads and risers	1,368	LFR	21.00	28,728
Rubber tile mid landing	537	SF	18.50	9,935
<u>090007 PAINTING*</u>				
Paint metal pan stair & rails (NIC SS): Stair A - straight full flt 15'4"H	2	FLT	4,100.00	8,200
Stair B -switchback full flt 15'4"H	2	FLT	4,100.00	8,200
Stair C - switchback full flt 15'4"H	2	FLT	4,100.00	8,200
Roof access - switchback full flt 17' 1"H	1	FLT	3,500.00	3,500
				----- 77,138
TOTAL C20 - STAIRS				413,638

C30 - INTERIOR FINISHES

C3010 WALL FINISHES

062000 FINISH CARPENTRY

HDWD shiplap wall panel sys: Corridor portal	700	SF	75.00	52,500
HDWD Cased Opening : Café platform	60	LF	175.00	10,500
Phenolic shiplap wall panel sys: Phenolic Panel - Cafe	520	SF	85.00	44,200
Phenolic Panel - Main Lobby	1,269	SF	85.00	107,865
Phenolic Panel Decorative - Elev Lobby	181	SF	85.00	15,385

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Solid Phenolic - Cafe	162	SF	85.00	13,770
<u>092116 GYPSUM WALLBOARD</u>				
FRP - Custodian closet 5'h (2 walls) *Includes section 097700	500	SF	11.00	5,500
<u>098400 ACOUSTICAL WALL TREATMENT</u>				
Tectum Wall Panel : Gymnasium - 6-8' H	1,789	SF	20.10	35,959
Fabric Wrapped Acoustical Panels:				
Sound Attenuation Panel - Music Room	1,000	SF	38.00	38,000
Sound Attenuation Panel - Main Lobby	413	SF	36.00	14,868
Sound Attenuation Panel - Media Center	462	SF	34.00	15,708
<u>090002 TILE*</u>				
Multi-user toilet rm (6EA): CWT - multi user - 10'	5,020	SF	30.20	151,604
Singel User Toilet Rm (0 EA) CWT - single user - 5'	2,939	SF	31.50	92,579
Wall Tile:				
CMT Art Tile - Stair A	364	SF	36.00	13,104
CMT Art Tile - Stair B	1,058	SF	36.00	38,088
CMT Art Tile - Stair C	990	SF	36.00	35,640
CMT Art Tile - Stair A,B,C, Wainscorr 5'	1,671	SF	36.00	60,156
PT Type 1 - Cafe	193	SF	33.00	6,369
PT Type 1 - Corridor 5' (893 lf)	4,465	SF	33.00	147,345
PT Type 2 - Corridor 4' (70 lf)	280	SF	33.00	9,240
PT Type 2 - Corridor 5' (25 lf)	125	SF	33.00	4,125
PT Type 2 - Corridor 6' (18 lf)	108	SF	33.00	3,564
PT Type 3 - Drinking Fountain 7' (25 lf)	175	SF	36.00	6,300
<u>090007 PAINTING*</u>				
Marker board paint Interior painting- walls	105,750	n/a GSF	2.15	227,363
<u>109000 MISCELLANEOUS SPECIALTIES</u>				
Adhered vinyl graphics (101400):				
Vinyl Wall Graphics - applied children play	4	EA	1,000.00	4,000
Vinyl Wall Graphics - cafe ramp	221	SF	25.00	5,525

				1,159,256

C3020 FLOOR FINISHES

033000 CAST IN PLACE CONCRETE

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Sealed Concrete Floor	2,354	SF	1.85	4,355
<u>090002 TILE*</u>				
Multi User Toilet Room (8 EA):				
Ceramic floor tile - Mud set	1,454	SF	44.00	63,976
Waterproof membrane	1,454	SF	8.50	12,359
Solid surface threshold	8	EA	150.00	1,200
SGL Toilet Room (22 EA NIC Kitchen):				
Ceramic floor tile - Thin set	1,380	SF	33.00	45,540
Waterproof membrane	1,380	SF	8.50	11,730
Solid surface threshold	22	EA	150.00	3,300
Kitchen:				
Quarry Tile- Mudset:	1,727	SF	36.00	62,172
Quarry tile wall base/transition	280	LF	11.20	3,136
*Includes cooler, freezer storage and toilet rm				
<u>090005 RESILIENT FLOORING*</u>				
LCT - Heavy Duty Linoleum Tile	79,000	SF	7.80	616,200
LCT - Elevator Cab	100	SF	15.00	1,500
Rubber tile landing		w/C2020		
Rubber base (incl corridor & stair halls)	11,000	LF	2.85	31,350
Floor leveling / Moisture	1	LS	50,000.00	50,000
<u>095000 WOOD & ATHLETIC FLOOR</u>				
Gym wood sports flr sys	4,083	SF	20.25	82,681
Gym wall base - vented	200	LF	6.75	1,350
*System includes - 25/32" HRDW , 2 lyr 15/32" ply, 3/4 resil. pad & A&B (by 071326)				
Maple stage dance flr sys	1,445	SF	19.00	27,455
Stage vented wall base	65	LF	6.75	439
<u>096800 CARPET</u>				
Media center	3,127	SF	6.00	18,762

				1,037,504
 C3030 CEILING FINISHES				
<u>092116 GYPSUM WALLBOARD</u>				
Gyp Ceiling:				
Typ Gyp Ceiling	1,086	SF	14.50	15,747
Allow-Rated clg - elev control rm	78	SF	25.00	1,950
Allow-GF Shaft bottom 1 HR(2 LOC)	180	SF	25.00	4,500
Underside of stair (3 FLT)	600	SF	23.50	14,100
Lobby GWB Cloud(18 EA)	466	SF	32.00	14,912
Acoustical ceiling (3 5/8" Stud, Insul & Dbl Lyr 5/8" Gyp)		N/A		
Sub Acoustical ceiling (3 5/8" Stud, Insul & Dbl Lyr 5/8" Gyp)		N/A		

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Soffit :				
Horiz frame & gyp	3,339	SF	16.75	55,928
Vert frame	19,019	SF	8.50	161,662
Vert 1 lyr gyp	11,005	SF	7.10	78,136
Soffit -Complete:				
Cafe Light Cove	134	LF	115.00	15,410
Radial Media Light Cove(3/5.1.08)	120	LF	160.00	19,200
<u>090003 ACOUSTICAL TILE*</u>				
ATC-1 Optima NRC .9 (2x2)	50,848	SF	8.80	447,462
ATC-1A Multi User Toilet rm (8loc) Clean Room	1,644	SF	7.95	13,070
ATC-1A Corridor & stairhall Optima .75 nrc	10,262	SF	8.15	83,635
ATC-1A Cafe	1,606	SF	8.15	13,089
ATC-2 Kitchen	1,498	SF	7.95	11,909
ATC-3 Art Storage	316	SF	7.75	2,449
ATC-3 Sgl User Toilet rm (22 loc)	1,448	SF	7.75	11,222
Project Area Ceiling System:				
ATC-1A Proj area (6 loc)	8,222	SF	8.50	69,887
Project area cloud (Grid w/ Wd Baffle 12 loc)	3,134	SF	40.00	125,360
Media Center Ceiling System:				
Media ctr ATC 2x8 sloped	1,230	SF	12.50	15,375
Radial Media Light Cove(3/5.1.08)	120	LF	24.00	2,880
Media ctr (linear mtl 38'dia)	1,134	SF	65.00	73,710
Lobby and Administration Ceiling System:				
Lobby /Main Office ATC 2x8 sloped	2,390	SF	12.50	29,875
Lobby baffles (1 loc)	142	SF	50.00	7,100
Cafeteria Ceiling System:				
Café cloud (perf metal curved)	1,550	SF	85.00	131,750
Café cloud (perf metal curved)	593	LF	24.00	14,232
Phenolic panel - proscenium w/ wd fin	354	SF	90.00	31,860
Platform Ceiling System:				
ATC-1 Platform cloud	480	SF	22.00	10,560
ATC-1 Platform cloud	101	LF	24.00	2,424
Wood Veneer Panel:				
Corridor Portal wd panel	105	SF	75.00	7,875
<u>090007 PAINTING*</u>				
Paint gyp ceiling	2,410	SF	1.25	3,013
Paint gyp soffit	15,000	SF	1.25	18,750
Paint Exposed Structure:				
Elec, mech & storage	5,736	SF	1.50	8,604
Gym	4,172	SF	3.00	12,516
Paint Exposed Structure- Backspray @ Cloud:				
Lobby baffles (1 loc)	142	SF	3.00	426
Café cloud (perf metal curved)	1,550	SF	3.00	4,650

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL

				1,535,227
TOTAL C30 - INTERIOR FINISHES				3,731,988

D. SERVICES

D10 - CONVEYING

D1010 ELEVATORS & LIFTS

140001 ELEVATORS & LIFTS*

Passenger elevator 3,500 lb	3	STOP	85,000.00	255,000
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050001 MISCELLANEOUS & ORNAMENTAL IRON*

Elevators:				
Elev. framing	1	EA	4,500.00	4,500
Elev. pit ladder	1	EA	2,200.00	2,200
Elev. sump grate	1	EA	2,300.00	2,300

264,000

TOTAL D10 - CONVEYING				264,000
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D20 - PLUMBING

D2010 PLUMBING

220001 PLUMBING*

Fixtures:				
P-1 water closet	5	EA	2,100.00	10,500
P-1A water closet	29	EA	2,100.00	60,900
P-2 lavatory	16	EA	1,450.00	23,200
P-2A lavatory	21	EA	1,450.00	30,450
P-3 Classroom Sink	41	EA	1,625.00	66,625
P-3A	37	EA	1,625.00	60,125
P-4 service sink	3	EA	1,800.00	5,400
P-4A	1	EA	1,800.00	1,800
P-5 urinal	4	EA	1,735.00	6,940
P-5A urinal	4	EA	1,735.00	6,940
P-6 drinking fountain	4	EA	4,000.00	16,000
P- 7 W/ Plaster trap SI-1	2	EA	2,650.00	5,300
P- 7A	1	EA	2,650.00	2,650
P8 - Eye wash	1	EA	3,500.00	3,500
P9 - Ice Maker (Connection)	1	EA	1,500.00	1,500
HB	10	EA	475.00	4,750
Wall Hydrant	4	EA	525.00	2,100
Auto Flush valve	42	EA	515.00	21,630

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Auto Faucet Sensor	37	EA	455.00	16,835
Hot Water Heater Schedule:				
HWST-1-2	2	EA	35,000.00	70,000
Heat Exchanger	1	EA	30,000.00	30,000
XT-1	1	EA	1,800.00	1,800
RCP-1	1	EA	2,500.00	2,500
DMV -1	1	EA	10,000.00	10,000
Misc. Valve and trim	1	EA	7,500.00	7,500
Mech Rm Equipment Pipe/ Connections	1	LS	20,000.00	20,000
Kitchen equipment hookup				
GI-1	1	EA	4,800.00	4,800
GI-2	1	EA	4,800.00	4,800
GI-3	1	EA	4,200.00	4,200
4,000 gal Ext.Grease Interceptor	1	EA	35,000.00	35,000
Roof/Storm Drain System	105,750	SF	3.50	370,125
Sanitary System				
Underground D/W/V Pipe:				
8"	77	LF	110.00	8,470
4"-6"	1,610	LF	65.00	104,650
FD	20	EA	725.00	14,500
FD - 2	5	EA	725.00	3,625
FS - 1	2	EA	1,600.00	3,200
Oil interceptor	1	EA	2,500.00	2,500
Elevator Sump Pump	1	EA	4,500.00	4,500
FCO	12	EA	425.00	5,100
Above Ground D/W/V Pipe:				
2"-4"	6,960	LF	41.00	285,360
CO	20	EA	400.00	8,000
FD	10	EA	695.00	6,950
Under slab Drain Line:	w/ A10			
Domestic Piping:				
Branch 1/2"-3/4"	5,220	LF	38.00	198,360
Main	5,220	LF	75.00	391,500
Pipe Valves and Fittings	1	LS	65,000.00	65,000
Fiberglass Pipe Insulation:				
Branch	5,220	LF	14.00	73,080
Main	5,220	LF	18.00	93,960
Gas Pipe:		N/A		
Misc.				
Test and Sanitize	1	LS	20,000.00	20,000
Core and Firesafing	1	LS	15,000.00	15,000
Trap Primer	1	LS	15,000.00	15,000
RP2BP - mech	1	EA	1,500.00	1,500
Water service BFP and meter rough in	1	LS	11,000.00	11,000
Permit/ Commissioning	1	LS	15,000.00	15,000
Coordination/CAD	1	LS	25,000.00	25,000
Supervision	1	LS	150,000.00	150,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL

				2,454,125
TOTAL D20 - PLUMBING	\$23.21	/SF		2,454,125

D30 - HVAC

D3010 HVAC

230001 HVAC*

Geothermal				
Geothermal Well -500'	84	EA	24,000.00	2,016,000
1-1/4" - 2" Closed loop piping	4,500	LF	28.50	128,250
10 HDPE S&R	365	LF	215.00	78,475
Discharge Permit (EPA)	1	LS	2,500.00	2,500
Dewatering	1	LS	100,000.00	100,000
Testing of well	1	EA	40,000.00	40,000
Tie loop into Mechanical Room Header	14	LOC	3,000.00	42,000
Geothermal Vault	1	LS	65,000.00	65,000
Cooling/Heating Generation				
GHP (Water to Water)	280	TONS	2,800.00	784,000
GWP1-8	8	EA	16,500.00	132,000
VFD	8	EA	3,000.00	24,000
GF-1-3	3	EA	5,000.00	15,000
GW Expansion tank	4	EA	3,900.00	15,600
AS 1-4	4	EA	8,000.00	32,000
Shot Feeder	3	EA	4,500.00	13,500
Glycol Chemical feed	1	LS	40,000.00	40,000
GHP piping trim and valve	1	LS	50,000.00	50,000
Incoming Groundwater Loop	1	LS	50,000.00	50,000
Geo manifold header	1	LS	30,000.00	30,000
Air Handling Unit:				
AHU-1	12,000	CFM	22.00	264,000
AHU-2	10,500	CFM	22.00	231,000
AHU-3	12,000	CFM	22.00	264,000
ERU-1	12,000	CFM	22.00	264,000
ERU-2	12,000	CFM	22.00	264,000
ECV-1	5,000	CFM	18.00	90,000
ECV-2	2,400	CFM	18.00	43,200
ECV-3	5,000	CFM	18.00	90,000
MAU - 1 (5,000 cfm)	1	EA	125,000.00	125,000
Curbs	7	EA	6,500.00	45,500
Valving and Connection	7	EA	10,000.00	70,000
Sound Attenuation box	137,000	CFM	0.72	98,640
Chilled Beam	220	EA	1,850.00	407,000
Modulating Valve	220	EA	175.00	38,500
Isolation valve	440	EA	125.00	55,000
Fan Coil	20	EA	3,400.00	68,000
Modulating Valve	40	EA	175.00	7,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Isolation valve	80	EA	125.00	10,000
Blower Coil	6	EA	3,200.00	19,200
Modulating Valve	12	EA	175.00	2,100
Isolation valve	12	EA	125.00	1,500
Fin Tube Radiation	108	LF	97.00	10,476
Modulating Valve	6	EA	175.00	1,050
Isolation valve	12	EA	125.00	1,500
VAV Box	15	EA	1,250.00	18,750
Modulating Valve	15	EA	175.00	2,625
Isolation valve	30	EA	125.00	3,750
HVAC Pipe w/ Insulation:				
Branch 3/4" - 1-1/2"	19,776	LF	50.00	988,800
Main 2" - 8"	6,812	LF	90.00	613,080
Electric Unit Heaters	5	EA	2,800.00	14,000
Air Distribution:				
Grilles and Dampers	105,750	GSF	0.88	93,060
Galvanized ductwork	85,000	LBS	16.75	1,423,750
1" Duct insul	75,000	SF	4.50	337,500
EPDM wrap	3,500	SF	12.00	42,000
Kitchen hood exhaust duct - welded	1,750	LBS	17.50	30,625
Fire wrap at duct	1,000	SF	9.00	9,000
Exhaust Fan:				
KEF - 1	1	EA	6,500.00	6,500
Kiln Fan	1	EA	2,800.00	2,800
Split System (Includes Condenser/Indoor/Ref/Cond.)	7	EA	18,500.00	129,500
Condensate Pump	7	EA	350.00	2,450
Temperature Control	105,750	SF	9.00	951,750
Seismic & vibrator control	1	LS	40,000.00	40,000
Rigging	1	LS	50,000.00	50,000
Test and balance	105,750	GSF	0.65	68,738
Commission coordination	260	HRS	110.00	28,600
Start-Up	260	HRS	110.00	28,600
Supervision	1	LS	250,000.00	250,000

				11,264,869

TOTAL D30 - HVAC	\$106.52 /sf			11,264,869
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D40 - FIRE PROTECTION

D4010 SPRINKLERS

210001 FIRE SUPPRESSION*

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
6" BF Preventer Assembly	1	EA	9,500.00	9,500
Wet valve assembly	1	LS	3,500.00	3,500
Butterfly Valve	11	LS	2,000.00	22,000
Elec. bell	1	LS	1,500.00	1,500
Siamese fire dept connection	1	LS	1,350.00	1,350
Standpipe Ctrl Valve 4"	2	EA	1,650.00	3,300
Standpipe Ctrl Valve 4"	1	EA	2,100.00	2,100
Fire Dept. Connection:				
2 1/2" Hose Valve w/cabinet	2	EA	3,200.00	6,400
2 1/2" FDV	6	EA	1,850.00	11,100
FCVA - 4"	6	EA	1,050.00	6,300
Tamper sw	22	EA	225.00	4,950
Heads w/ Branch:	1,095	EA	475.00	520,125
Concealed head				incl. above
Upright head				incl. above
Sidewall Head				incl. above
Dry head				incl. above
Sch. 10:				
Drain 3"	120	LF	42.00	5,040
4"-6" Main	1,980	LF	65.00	128,700
Coring and firesafing	1	LS	5,000.00	5,000
Misc. Valves and Gauges	1	LS	10,000.00	10,000
Hydraulic Calcs	1	LS	7,500.00	7,500
Test, as built	1	LS	20,000.00	20,000
Supervision	1	LS	50,000.00	50,000

				818,365
TOTAL D40 - FIRE PROTECTION			\$7.74 /sf	818,365

D50 - ELECTRICAL

D5010 ELECTRICAL SERVICE & DISTRIBUTION

260001 ELECTRICAL*

Lighting Fixtures:

Exit	37	EA	450.00	16,650
R13	34	EA	300.00	10,200
R4	80	EA	300.00	24,000
R12	8	EA	300.00	2,400
R8C	9	EA	350.00	3,150
R6	152	EA	350.00	53,200
P10	19	EA	680.00	12,920
P9B	21	EA	1,900.00	39,900
P9C	2	EA	2,800.00	5,600
P2-8	35	EA	380.00	13,300

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
R2-8	48	EA	600.00	28,800
S1	63	EA	275.00	17,325
R1	57	EA	300.00	17,100
W1	40	EA	650.00	26,000
R10	5	EA	300.00	1,500
W7	4	EA	700.00	2,800
P2-4	2	EA	380.00	760
P12-16	8	EA	1,800.00	14,400
P1-16	138	EA	1,500.00	207,000
R9	8	EA	350.00	2,800
TA	6	EA	300.00	1,800
T-1B	18	EA	100.00	1,800
TB	6	EA	250.00	1,500
T1A	12	EA	250.00	3,000
R2-6	7	EA	450.00	3,150
P12-8	12	EA	750.00	9,000
P12-4	18	EA	450.00	8,100
S5	10	EA	350.00	3,500
R7	13	EA	300.00	3,900
W6	3	EA	650.00	1,950
P9C.2	6	EA	3,000.00	18,000
S3	19	EA	650.00	12,350
R3-6	8	EA	600.00	4,800
R3	6	EA	300.00	1,800
P1-8	13	EA	650.00	8,450
R3-8	5	EA	800.00	4,000
S6 - 112 LF EA	672	LF	100.00	67,200
P3B	3	EA	175.00	525
P8A	12	EA	300.00	3,600
W3B	12	EA	150.00	1,800
W3A	12	EA	150.00	1,800
W2	24	EA	650.00	15,600
P3C	3	EA	175.00	525
R11-4	6	EA	300.00	1,800
S6 - 120 LF EA	120	LF	100.00	12,000
P9D.4	1	EA	3,000.00	3,000
P9C.1	1	EA	2,400.00	2,400
R8B	12	EA	650.00	7,800
P4	20	EA	550.00	11,000
P3D	2	EA	150.00	300
P2-16	1	EA	1,500.00	1,500
R2-10	2	EA	800.00	1,600
R2-12	4	EA	1,000.00	4,000
Wallpack	1	EA	500.00	500
BackBox	1,040	EA	48.00	49,920
MC-12/2 w /G	25,000	LF	2.30	57,500
EMT-3/4"C - 3#12	6,500	LF	6.35	41,275
Lighting Control	105,750	SF	2.35	248,513
Power Wiring Devices:				
Gym equip group control sys installation & wiring	1	LS	5,900.00	5,900
Br. Ckt - EMT-3/4"C-3#10 & 1#12	2,200	LF	6.95	15,290
WP GFI	4	EA	77.25	309
GFI	87	EA	70.00	6,090
Duplex	717	EA	63.00	45,171

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Double duplex	215	EA	104.00	22,360
Smart gym touch pnl	1	EA	1,500.00	1,500
Gym motorized BB	6	EA	400.00	2,400
J - shot clock power	2	EA	172.50	345
Smart gym relay pnl & processor	1	EA	300.00	300
Hand Dryer junction	39	EA	148.00	5,772
Shade Junction	9	EA	148.00	1,332
60/40 kiln	1	EA	750.00	750
J-box w/conn	5	EA	152.50	763
FB	10	EA	1,150.00	11,500
Floor core	10	EA	375.00	3,750
Gymnasium Wiregaurds	1	LS	5,000.00	5,000
MC-12/2 w/g	28,200	LF	2.30	64,860
EMT-3/4"C-3#12	3,500	LF	6.35	22,225
Photovoltaic:				
PV Array	649	KW	3,050.00	1,979,450
PV Rough-in	1	LS	25,000.00	25,000
Lighting Protection	105,750	SF	0.70	74,025
Mechanical Wiring	105,750	SF	2.50	264,375
Misc. Electrical Requirements:				
Kitchen power & conns	1	EA	21,800.00	21,800
Kitchen hood suppression	1	EA	1,760.00	1,760
Wilson Pro Cell Repeater System		N/A		
Rath Two Way communication System	1	LS	12,500.00	12,500
Fire Alarm System & BDA:				
BDA system w/antenna	1	EA	80,000.00	80,000
Radio m-box antenna	1	EA	480.00	480
Radio m-box mas on stair	1	EA	320.00	320
M-box conduit & cable	150	LF	7.60	1,140
2"C Standpipe for BDA	2	EA	245.00	490
EMT-2"C w/radial cable	110	LF	12.10	1,331
Digital dialer (2 line)	1	EA	160.00	160
FACP main control pnl	1	EA	27,500.00	27,500
VEP voice evac pnl	1	EA	4,120.00	4,120
PEP power extender pnl	1	EA	1,230.00	1,230
Red beacon	1	EA	485.00	485
ANN remote annun w/voice control	1	EA	7,900.00	7,900
KB ext knox box	2	EA	660.00	1,320
EAS	2	EA	1,500.00	3,000
FSD	15	EA	800.00	12,000
SNAC	6	EA	1,800.00	10,800
Heat Detector	10	EA	410.00	4,100
Horn/Strobe	163	EA	373.00	60,799
Pull Station	16	EA	405.00	6,480
Smoke	56	EA	325.00	18,200
Smoke Duct	23	EA	565.00	12,995
Strobe	130	EA	320.00	41,600
Door Holder	20	EA	500.00	10,000
Remote Alarm Indicator	19	EA	280.00	5,320
Switches	17	EA	175.00	2,975
CM - control module	23	EA	730.00	16,790
FAA	2	EA	480.00	960

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
J 4" Sq w/ DR	521	EA	48.00	25,008
Programming & pretest	1	EA	7,500.00	7,500
AFD testing & cert	1	EA	2,500.00	2,500
Flow & air testing	1	EA	600.00	600
AFC #4901 MC 16/2 & 14/2	6,000	LF	4.10	24,600
MC-4/C #14 red jacket	14,000	LF	2.80	39,200
EMT-3/4"C - 4/C#14	500	LF	8.15	4,075
Switchgear Panels & Xfmrs:				
MSB - 4000A	1	EA	250,000.00	250,000
Meter socket	1	EA	785.00	785
SPD-1	6	EA	1,650.00	9,900
Panel SPD	7	EA	375.00	2,625
Digital in board monitoring	1	EA	7,100.00	7,100
Main swbrd serv ground	1	EA	1,375.00	1,375
Main swbrd EPO	1	EA	475.00	475
Elev - disc switch's w/term	2	EA	620.00	1,240
Elevator Panel	1	EA	2,800.00	2,800
100A	8	EA	2,800.00	22,400
150A	5	EA	3,200.00	16,000
225A	16	EA	5,300.00	84,800
400A	2	EA	4,300.00	8,600
1000A	1	EA	17,400.00	17,400
50A	6	EA	1,600.00	9,600
600A	2	EA	8,900.00	17,800
60A	5	EA	1,750.00	8,750
800A	1	EA	12,500.00	12,500
90A	2	EA	2,600.00	5,200
XFMR-300KVA	1	EA	18,250.00	18,250
XFMR-225KVA	1	EA	15,750.00	15,750
XFMR-15KVA	1	EA	2,250.00	2,250
XFMR-150KVA	1	EA	10,750.00	10,750
Xfmr grounds	4	EA	350.00	1,400
600KW Diesel Gen	1	EA	275,000.00	275,000
400A Nema MTS	1	EA	6,000.00	6,000
ATS-100A	1	EA	4,700.00	4,700
ATS-600A	1	EA	8,100.00	8,100
Receive rig set (boom)	1	EA	11,100.00	11,100
Block htr & bat charger	1	EA	300.00	300
Bldg mtd EPO	1	EA	800.00	800
EPO Push Button	1	EA	525.00	525
Gen Remote Annunciator	1	EA	450.00	450
Panel and Emergency Feeders	105,750	GSF	4.00	423,000
281000:				
Integrated security systems				
CAM - Interior	35	EA	1,850.00	64,750
CAM - Exterior	26	EA	2,250.00	58,500
Motion Detector	48	EA	320.00	15,360
Magnetic Door Contacts	19	EA	385.00	7,315
CR	16	EA	1,250.00	20,000
ET	19	EA	385.00	7,315
ES	36	EA	450.00	16,200
DO	4	EA	1,800.00	7,200
VMS	5	EA	1,820.00	9,100
DB	3	EA	400.00	1,200
CR - Lockdown	1	EA	2,100.00	2,100

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL	
Siren	6	EA	500.00	3,000	
Key Pad	2	EA	880.00	1,760	
VES	2	EA	750.00	1,500	
Overhead Door Contact	1	EA	350.00	350	
Door Power Supply	18	EA	670.00	16,080	
CCTV Racks w/head end equip	1	EA	35,000.00	35,000	
Intrusion Alarm with Head End	1	EA	18,000.00	18,000	
Camera license	61	EA	150.00	9,150	
CAT 6A	8,500	LF	2.00	17,000	
Belson Security cabling	7,000	LF	1.57	10,955	
Programing, Setup and testing	1	LS	50,000.00	50,000	
Active shooter duress system		NIC			
Sections 27100, 274000, 275000, 281000:					
27 10 00:					
Communications-Tel/Data & A-V Cabling					
WAP	86	EA	650.00	55,900	
Data D1	125	EA	480.00	60,000	
Data D2	206	EA	400.00	82,400	
Video Outlet	133	EA	400.00	53,200	
Wallphone	21	EA	400.00	8,400	
Mic	7	EA	480.00	3,360	
HDMI	1	EA	480.00	480	
Future Video Outlet	6	EA	400.00	2,400	
MDF	1	EA	12,000.00	12,000	
IDF	2	EA	9,500.00	19,000	
Structured Cabling	1	LS	35,000.00	35,000	
27 41 00:					
IPTV And VOD System		N/A			
Gym/ Café Projector	1	LS	25,000.00	25,000	
Large Venue A/V Systems					
Cafeteria/Stage	1	LS	85,000.00	85,000	
Gymnasium	1	LS	75,000.00	75,000	
Chorus/Band Room	1	LS	35,000.00	35,000	
A/V Display Systems	3	EA	5,500.00	16,500	
Speech Reinforcement	55	EA	3,150.00	173,250	
PA and Clock System:					
Clock System					
Clock/Speaker	63	EA	725.00	45,675	
Clock	86	EA	350.00	30,100	
PA Speaker	18	EA	550.00	9,900	
PA Head end	1	LS	35,000.00	35,000	
15% OH&P	1	LS	867,169.05	867,169	
DJE	1	LS	400,000.00	400,000	

				7,910,861	
TOTAL D50 - ELECTRICAL				\$74.81 /sf	7,910,861

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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E. EQUIPMENT & FURNISHINGS

E10 - EQUIPMENT

E1010 COMMERCIAL EQUIPMENT

114000 FOOD SERVICE EQUIPMENT

Kitchen equipment	1	LS	685,230.00	685,230

				685,230

E1090 OTHER EQUIPMENT

113100 APPLIANCES

Teacher Dining/Work Room (2 EA):

Refrigerator 18 CF (2/ RM)	2	EA	1,500.00	3,000
Microwave(2/ RM)	2	EA	500.00	1,000

Main Office Kitchenette:

Refrigerator under ctr	1	EA	1,200.00	1,200
Microwave	1	EA	650.00	650

Medical Office:

Refrigerator under ctr	1	EA	1,500.00	1,500
Ice maker	1	EA	1,200.00	1,200
Microwave	1	EA	650.00	650

116600 ATHLETIC & SPORTS EQUIPMENT

PT Class Climbing wall	130	SF	150.00	19,500
Climbing netting	103	SF	30.00	3,090

Main Gym:

Basketball backstops - electric	6	EA	10,200.00	61,200
Wall padding	684	SF	17.00	11,628
Motorized gym divider -allow 52' x 24'	1,248	SF	19.50	24,336
Volley ball net, standard & sleeves	1	LS	1,800.00	1,800
Scoreboard		w/Electrical		

116143 STAGE DRAPERY

Café Platform - Allow:

Stage curtains	1	LS	45,000.00	45,000
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115213 PROJECTION SCREENS

Elec. Op Projection Screen:

8' x 12' Café platform	1	EA	9,200.00	9,200
12' x 16' Gym	1	EA	11,750.00	11,750

119000 MISC. EQUIPMENT

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Kiln		NIC		
Library equipment		NIC		
Changing sta - power operated:		W / Fittings		-----
				196,704
TOTAL E10 - EQUIPMENT				881,934

E20 - FURNISHINGS

E 2010 FIXED FURNISHINGS

122413 ROLLER SHADES

Motor op shade: Media Center	618	SF	32.00	19,776
Ext Meco Shade - Manual: Punched wind.	6,218	SF	9.00	55,962
Int blinds @ wind, sl & storefront	1	LS	10,000.00	10,000

064000 ARCHITECTURAL CASEWORK

Project Area (12 LOC):				
Divider Base	210	LF	75.00	15,750
Divider Hardwood trim	388	LF	65.00	25,220
Divider Magnetic Dry Erase Surface	570	SF	27.00	15,390
Divider PL Panel	408	SF	65.00	26,520
Divider Tackable Surface	599	SF	40.00	23,960
Divider Wood Veneer Panel	261	SF	85.00	22,185
Perimeter Cabinets (12 loc):				
Locker Base	558	LF	100.00	55,800
Wall Cabinet	558	LF	275.00	153,450
Kindergarten Class (5 EA):				
Sliding marker bd unit w/base open cubbies	62.5	LF	1,200.00	75,000
Typ Wall cabinet	30	LF	225.00	6,750
P.L. Counter only	30	LF	185.00	5,550
Base cab(nic counter)	30	LF	245.00	7,350
42" Tall Storage	10	EA	1,875.00	18,750
Grade 1-4 (31 EA):				
Sliding marker bd unit w/base open cubbies	388.0	LF	1,200.00	465,600
Typ Wall cabinet	201	LF	225.00	45,225
P.L. Counter only	201	LF	185.00	37,185
Base cab(nic counter)	201	LF	245.00	49,245
60" Tall Storage	31	EA	3,000.00	93,000
Art Room (1 EA):				
Sliding marker bd unit w/base open cubbies	12.5	LF	1,200.00	15,000
Epoxy counter	30	LF	330.00	9,900
Base cab(nic counter)	30	LF	245.00	7,350
36" Tall storage w/base cab	2	EA	1,225.00	2,450
Open Wall cabinet	8	LF	200.00	1,600

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
STEM room (1 EA):				
Sliding marker bd unit w/base open cubbies	12.5	LF	1,200.00	15,000
Epoxy counter	36	LF	330.00	11,880
Base cab(nic counter)	36	LF	245.00	8,820
Open Wall cabinet	14	LF	200.00	2,800
Music Room (1 EA):				
Typ Wall cabinet	6	LF	225.00	1,350
P.L. Counter only	6	LF	185.00	1,110
Base cab(nic counter)	6	LF	245.00	1,470
Instrument Storage	29	LF	1,000.00	29,000
Teachers Room (2 e a):				
Open Wall cabinet	60	LF	200.00	12,000
Typ Wall cabinet	60	LF	225.00	13,500
P.L. Counter only	60	LF	185.00	11,100
Base cab(nic counter)	60	LF	245.00	14,700
Nurse Office Casework :				
Typ Wall cabinet	14	LF	225.00	3,150
P.L. Counter only	14	LF	185.00	2,590
Base cab(nic counter)	14	LF	245.00	3,430
ILC Motor Room:				
Typ Wall cabinet	6	LF	225.00	1,350
P.L. Counter only	6	LF	185.00	1,110
Base cab(nic counter)	6	LF	245.00	1,470
Custodial Workshop:				
Base cabinet + drawers	10	LF	325.00	3,250
Epoxy counter	10	LF	295.00	2,950
Typ Wall cabinet	10	LF	225.00	2,250
<u>124813 MATS</u>				
Recessed walk-off grate (2 EA)	217	SF	55.00	11,935
Walk-off mat	171	SF	18.00	3,078
				----- 1,423,261
E2020 MOVABLE FURNISHINGS		NIC		
				----- 0
TOTAL E20 - FURNISHINGS				1,423,261

F. SPECIAL CONSTRUCTION & DEMOLITION

F10 - SPECIAL CONSTRUCTION

F1010 SPECIAL STRUCTURES

N/A

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
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0

TOTAL F10 - SPECIAL CONSTRUCTION				0
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F20 - SELECTIVE BUILDING DEMOLITION

F2010 BUILDING ELEMENTS DEMOLITION

0

F2020 HAZARDOUS COMPONENTS ABATEMENT See Grand Summary

0

TOTAL F20 - SELECTIVE BUILDING DEMOLITION				0
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G. BUILDING SITEWORK

G10 - SITE PREPARATION

G1010 SITE CLEARING

311000 SITE PREPARATION & CLEARING

Site Prep:

Construction entrance Gate	2	EA	2,500.00	5,000
Gravel pad	2,500	SF	15.00	37,500
Clear and Grub	1	LS	30,000.00	30,000
Saw cut pavement roadway	65	LF	4.75	309
Protect Tree Fence	1,751	LF	12.00	21,012
Construction fence	5,200	LF	12.00	62,400
Siltation fence	1,162	LF	9.00	10,458
Silt sock	3,719	LF	8.95	33,285
Maintain Phase	1	LS	15,000.00	15,000
Street sweep and dust control	1	LS	25,000.00	25,000
Snow Removal	1	LS	30,000.00	30,000
Misc site prep	782,199	SF	0.15	117,330

Site Demolition:

Remove Bit pavement	162,445	SF	1.05	170,567
Remove Conc walk	3,531	SF	1.20	4,237
Remove Bit walk	4,335	SF	1.00	4,335
Playground and Sand surface	6,389	SF	1.00	6,389
Playground Equipment	1	LS	15,000.00	15,000
Misc. Traffic Signage	1	LS	3,000.00	3,000
Remove Utilities	1	LS	100,000.00	100,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Utility phasing logistics	1	LS	50,000.00	50,000
Misc site demolition	782,199	SF	0.10	78,220
Temporary Road and Parking:				
Temporary parking and road marking	1	LS	25,000.00	25,000
Phased Site logistics	1	LS	25,000.00	25,000

				869,042

G1020 SITE DEMOLITION & RELOCATIONS

W / G1010

0

G1030 SITE EARTHWORK

310000 EARTHWORK

Top Soil:				
Strip top soil - 9" (501,288 sf)	10,150	CY	8.80	89,320
Trucking - off site	10,150	CY	12.00	121,800
Dispose of top soil	15,225	TON	20.00	304,500
Site Cut and Fill to Rough Grade:				
Site Cut	5,158	CY	11.00	56,738
Site Fill:				
Respread Surplus Preload material	3,646	CY	9.50	34,637
Respread Site cut	5,158	CY	9.50	49,001
Site fill - supply	11,661	CY	32.50	378,983
Site Grading	72,000	SY	2.25	162,000

				1,196,979

G1040 HAZARDOUS WASTE REMEDIATION

n/a

0

TOTAL G10 - SITE PREPARATION

2,066,021

G20 - SITE IMPROVEMENTS

G2010 ROADWAYS

321000 PAVING AND CURBING

Bit Pavement Drive/Parking:				
Drive - Std top course bit (1 1/2" Wear & 2 1/2" Base)	8,045	SY	41.00	329,845
Parking - Std top course bit (1 1/2" Wear & 2 1/2" Base)	6,222	SY	41.00	255,102

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Reuse - 12" Gravel base @ bit drive	4,755	CY	20.50	97,478
Geogrid	75,000	SF	1.00	75,000
12" Street Patch @ curb	143	LF	50.00	7,150
Vehicular Concrete Apron:				
9" Concrete Pavement w/ epoxy rebar	381	SF	16.50	6,287
Reuse - 12" Gravel base @ conc drive	15	CY	20.50	308
Granite Vert. Curbing:				
Curb Drive - radial	931	LF	51.00	47,481
Curb Drive - straight	3,789	LF	47.00	178,083
Curb Parking - radial	293	LF	51.00	14,943
Curb Parking - straight	1,382	LF	47.00	64,954
Curb Street - straight	136	LF	70.00	9,520
Premium:				
Painted crosswalk -special pattern	935	SF	3.00	2,805
Pavement striping/markings:				
Directional Arrow	17	EA	125.00	2,125
HC Parking stall Hatch	498	SF	12.00	5,976
HC Stall Symbol	6	EA	110.00	660
Parking Line	3,505	LF	3.20	11,216
Stop Line	37	LF	5.00	185
Misc. Crosswalk not shown	1	LS	5,000.00	5,000
Traffic Signage	1	LS	10,000.00	10,000

				1,124,117
G2020 PARKING LOTS				
*Included with G2010				-----
				0
G2030 PEDESTRIAN PAVING				
<u>321000 PAVING AND CURBING</u>				
Concrete Sidewalk:				
5" Typ Conc pavement w/ wwf	30,167	SF	9.85	297,145
Rebar at Tactile Paver	1,500	LBS	2.00	3,000
Reuse - 8" Gravel @ walk	745	CY	20.50	15,273
Vehicular Concrete Pavement:				
9" Typ Conc pavement w/ rebar	6,887	SF	15.70	108,126
Reuse - 12" Gravel @ walk	255	CY	20.50	5,228
Bit Sidewalk Pavement:				
3" Bit Pavement	19,623	SF	4.35	85,360
Reuse - 12" Gravel @ walk	726	CY	20.50	14,883

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Bit Vehicular Pavement:				
4" Bit Pavement	28,667	SF	4.60	131,868
Reuse - 12" Gravel @ walk	1,062	CY	20.50	21,771
Unit Paver - Entries:				
Concrete Unit paver set in stone dust	3,581	SF	33.00	118,173
5" Base slab	3,581	SF	9.50	34,020
Reuse - 8" Gravel @ walk	89	CY	20.50	1,825
Unit Paver - Outdoor Classroom:				
Hanover Preset brick paver set in stone dust	675	SF	33.00	22,275
5" Base slab	675	SF	9.50	6,413
Reuse - 8" Gravel @ walk	18	CY	20.50	369
HC Cast Iron tactile paver	375	LF	140.00	52,500

				918,227

G2040 SITE DEVELOPMENT

050001 MISCELLANEOUS & ORNAMENTAL IRON*

6" Galv. metal bollard @ equip pad	12	EA	1,350.00	16,200
68" Steel Decorative bollard @ drop off	47	EA	2,400.00	112,800

323100 SITE IMPROVEMENTS

Playground Safety Surface - Poured in Permeable Rubber (2 Loc):				
1/2" Top surface , 4" Base mat (poured in place)	19,345	SF	23.75	459,444
8" Dense crushed stone	477	CY	50.00	23,850
6" gravel base	358	CY	50.00	17,900
Flat drain and underdrains	19,345	SF	1.00	19,345
Perm conc. curb	592	LF	55.00	32,560
*note flush granite curb carried below				
Playground Equipment	1	LS	500,000.00	500,000
Bit Play surface:				
3" Bit Pavement	24,638	SF	4.35	107,175
Plexi pave - 100%	24,638	SF	6.20	152,756
12" Gravel @ walk	913	CY	46.00	41,998
Decorative Stone Surfacing:				
Decorative Stone Surface	3,825	SF	4.50	17,213
Filter Fabric	3,825	SF	1.00	3,825
Sone dust Paving at Planters (not indicated):				
3" Stone dust	4,922	SF	5.75	28,302
8" Dense crushed stone	477	CY	50.00	23,850
Landscape Curbing:				
Flush Granite Play area Curbing	335	LF	95.00	31,825
Granite Landscape Curbing	1,169	LF	95.00	111,055

Fencing:

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
12' CL Fence - Playground	588	LF	106.00	62,328
4' CL Fence - Playground	330	LF	71.00	23,430
Softball Field:				
Backstop - main field	1	EA	37,500.00	37,500
Backstop - side field	1	EA	25,000.00	25,000
CL Gate	2	EA	2,200.00	4,400
6" CL Fence	171	LF	75.00	12,825
Player Bench	8	EA	2,500.00	20,000
Safety Netting	186	LF	150.00	27,900
Infield Mix	9,381	SF	4.85	45,498
Plate and rubber	1	LS	1,500.00	1,500
Misc. Amenities				
Galv Ramp Rail	21	LF	400.00	8,400
Basketball Hoop	6	EA	4,500.00	27,000
Bike Rack (specs calls 25 ea)	11	EA	975.00	10,725
Bluestone Stepping Stone	111	EA	100.00	11,100
Bluestone Surface	1,329	SF	125.00	166,125
Flagpole	1	EA	12,500.00	12,500
Future Structure Pad	191	SF	n/a	
Radial Bench (4 ea, spec calls 9 ea)	63	LF	400.00	25,200
Stone Boulder (55 ea)	55	EA	1,000.00	55,000
Wood Deck	690	SF	100.00	69,000
Wood Log	27	EA	1,500.00	40,500
Wood Planter (13 listed, counted 18)	18	EA	5,000.00	90,000
Allow (items not shown)				
Site Benches	1	LS	20,000.00	20,000
Outdoor Canopy	1	LS	50,000.00	50,000
Site Sign	1	LS	20,000.00	20,000
Trash/recycle receptacle	6	EA	1,500.00	9,000
Log Seat	50	EA	500.00	25,000
Bird house	1	LS	5,000.00	5,000

				2,605,028
G2050 LANDSCAPING				
<u>329000 PLANTING</u>				
Plantings	1	LS	300,000.00	300,000
Rain garden plugs	492	EA	5.00	2,460
Planting Maintenance	1	LS	20,000.00	20,000
Hydro seeding:				
Athletic Field	161,022	SF	0.36	57,968
Bio retention field	26,028	SF	0.45	11,713
Conservation Mix	202,688	SF	0.38	77,021
Lawn	66,587	SF	0.36	23,971
Micro first session mix	3,872	SF	1.00	3,872
Micro pine conservation mix	3,314	SF	1.00	3,314

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Athletic Field (161,022):				
6" Loam	2,981	CY	68.00	202,708
9" Drainage Layer	4,472	CY	44.00	196,768
6" Loam:				
Loam - import	5,602	CY	68.00	380,936
18" Soil @ shrub bed (34,351 sf)	1,910	CY	72.00	137,520
2" Mulch @ shrub bed & tree pits	205	CY	68.00	13,940
Erosion control blanket	5,000	SF	1.75	8,750
328000 IRRIGATION				
Allow:				
Irrigation System - softball field	161,022	SF	1.85	297,891

				1,738,832
TOTAL G20 - SITE IMPROVEMENTS				6,386,203

G30 - SITE MECHANICAL UTILITIES

G3010 WATER SUPPLY

330000 UTILITIES

South East Street Connection	2	LOC	12,000.00	24,000
6" tapping sleeve	2	EA	3,000.00	6,000
1" tapping sleeve	1	EA	2,000.00	2,000
6" Domestic service	823	LF	82.00	67,486
6" Fire service	828	LF	82.00	67,896
1" Domestic to future warming bldg	532	LF	60.00	31,920
Hydrant	1	LS	7,500.00	7,500
6" Gate valve	4	EA	2,975.00	11,900
1" Curb stop	1	EA	2,200.00	2,200
Test, sanitize, misc.	1	LS	7,500.00	7,500
Saw cut street	258	LF	12.00	3,096
Patch Street	844	SF	10.00	8,440
Temp water	1	LS	10,000.00	10,000

				249,938

G3020 SANITARY SEWER

330000 UTILITIES

4,000 gal. Grease trap (EXCAVATE ONLY)	1	LS	10,000.00	10,000
Sewage Pump Station (inc elec conn.)	1	EA	100,000.00	100,000
4" PVC	80	LF	86.00	6,880
6" PVC sanitary	750	LF	89.75	67,313
Sanitary manhole	3	EA	4,025.00	12,075
Street Doghouse	1	EA	20,000.00	20,000

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Saw cut street	164	LF	12.00	1,968
Patch Street	448	SF	10.00	4,480

				222,716
G3030 STORM SEWER				
330000 UTILITIES				
Catch basin	6	EA	4,100.00	24,600
Drain Manhole	2	EA	4,100.00	8,200
Clean out	10	EA	2,200.00	22,000
Water Quality Structure	2	EA	18,500.00	37,000
Area Drain	3	EA	3,200.00	9,600
Flared End Structure and outfall	4	EA	7,500.00	30,000
Culvert:				
Tap Culvert pipe	4	EA	4,000.00	16,000
Cut back daylight headwall	1	LS	50,000.00	50,000
Bye pass pumping	1	LS	10,000.00	10,000
Piping and Trenching (assumes reuse backfill):				
12" HDPE	1,097	LF	90.00	98,730
4" Perf Pipe	359	LF	48.75	17,501
Field Drainage:				
8" Collector pipe	210	LF	62.00	13,020
8" Perimeter perf pipe	1,153	LF	59.75	68,892
Flat drain	10,351	LF	32.00	331,232
Bio Garden:				
Clean out	1	EA	1,500.00	1,500
Overflow	5	EA	4,750.00	23,750
Inlet Turret	7	EA	8,500.00	59,500
Bio retention Basin (7,123 SF - 4 Loc):				
Excavate and transport field	924	CY	18.00	16,632
Remove Spoil	1,478	TON	25.00	36,960
Drainage Layer	264	CY	65.00	17,160
Bio mix media 24"	528	CY	85.00	44,880
Pea stone 6"	132	CY	80.00	10,560
Filter fabric	12,000	SF	1.00	12,000

*Drainage @ Playground Safety Surface is included w/Site Improvements
 * Foundation and slab drainage are included w/ A1010

 959,717

G3040 HEATING DISTRIBUTION

330000 UTILITIES

Geothermal

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Haul Well spoil	1	LS	25,000.00	25,000
Excavate S&R Trench	2,615	LF	35.00	91,525

				116,525
 G3090 OTHER SITE MECHANICAL UTILITIES		N/A		

				0
TOTAL G30 - SITE MECHANICAL UTILITIES				1,548,896

G40 - SITE ELECTRICAL UTILITIES

G4010 ELECTRICAL DISTRIBUTION

330000 UTILITIES

Transformer pad	2	EA	3,500.00	7,000
Generator Pad	232	SF	20.00	4,640
Ext. Trench, Backfill and Concrete:				
AA	80	LF	135.00	10,800
BB	40	LF	135.00	5,400
CC	554	LF	160.00	88,640
DD	23	LF	75.00	1,725
EE	249	LF	75.00	18,675
FF	793	LF	71.00	56,303
GG	274	LF	95.00	26,030
HH	59	LF	135.00	7,965
JJ	395	LF	95.00	37,525
KK	401	LF	95.00	38,095
LL	28	LF	65.00	1,820
MM	1,002	LF	38.00	38,076
NN	200	LF	38.00	7,600
QQ	1	LS	25,000.00	25,000
Barn feed	134	LF	38.00	5,092
PP				
Elec car charge sta		future		
Saw cut street	206	LF	12.00	2,472
Patch Street	565	SF	10.00	5,650

260001 ELECTRICAL*

Site Electrical:

Demo and disconnect	1	LS	35,000.00	35,000
HH Handhole - E.V.'s	6	EA	1,100.00	6,600
T xfmr pad grounding	2	EA	2,700.00	5,400
T xfmr pad sleeves & 90 deg	2	EA	650.00	1,300
MH Manhole F&I by E.C.	5	EA	11,250.00	56,250

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
MH Manhole grounding & racks	5	EA	1,800.00	9,000
Exist. utility pole dressing	3	EA	2,650.00	7,950
AA - (4) 4" PVC-w/P.S.	320	LF	12.50	4,000
BB - (4) 4" PVC-w/P.S.	160	LF	12.50	2,000
CC - (8) 4" PVC-w/P.S.	4,432	LF	12.50	55,400
DD - (4) 4" PVC-w/P.S.	92	LF	12.50	1,150
EE- 4" (4) PVC-w/P.S.	996	LF	12.50	12,450
FF - (2) 4" PVC-w/P.S.	1,586	LF	12.50	19,825
HH - 5" (8) PVC-w/P.S.	472	LF	12.50	5,900
GG - 5" (6) PVC-w/P.S.	1,644	LF	12.50	20,550
JJ - 5" (4) PVC-w/P.S.	1,580	LF	12.50	19,750
KK- 5" (4) PVC-w/P.S.	1,604	LF	12.50	20,050
LL - 5" PVC-w/P.S.	28	LF	12.50	350
MM - 2" (20) PVC-w/P.S.	2,004	LF	6.70	13,427
NN - 2" (3) PVC-w/P.S.	600	LF	6.70	4,020
Barn - 2" PVC-w/P.S.	134	LF	6.70	898
Sump Pump - 2" PVC-w/P.S.	150	LF	6.70	1,005
Barn Panel	1	EA	1,000.00	1,000
Power Distribution:				
Sump Pump- 8#6 & 2#10	150	LF	5.95	893
Barn Feed - 8#6 & 2#10	134	LF	5.95	797
Secondary (8) #600 mcm	1,100	LF	137.00	150,700
Generator feed		w/ bldg		
OH&P 15%	1	LS	45,491.19	45,491
DJE	1	LS	25,000.00	25,000

				914,664
G4020 SITE LIGHTING				
<u>330000 UTILITIES</u>				
New Site Lighting:				
Site light trenching	4,823	LF	13.00	62,699
Future sports field light trench	1,403	LF	13.00	18,239
Concrete Pole Base				
Roadway and Parking Pole Base	38	EA	950.00	36,100
Pedestrian Light Pole	23	EA	800.00	18,400
<u>260001 ELECTRICAL*</u>				
Exterior Site/Elec/Lighting:				
G1 20' roadway pole	36	EA	2,740.00	98,640
G2 Twin 10' roadway pole	2	EA	3,295.00	6,590
G3 14' Walkway post top	23	EA	2,280.00	52,440
G7 Canopy light (inc. emt branch)	26	EA	975.00	25,350
G6 - uplight	2	EA	660.00	1,320
CCTV camera pole prep	4	EA	340.00	1,360
Flagpole grounding	2	EA	315.00	630
PVC-2"C w/ps for fiber	1,200	LF	3.10	3,720
HH handhole 15"x22"x18"D	11	EA	940.00	10,340
Pole base grounding	61	EA	150.00	9,150

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Pole base anchor bolt sys	61	EA	56.00	3,416
Pole base sleeves & 90 deg	61	EA	130.00	7,930
Surveillance cab power	4	EA	350.00	1,400
PVC-1 1/4"C-2#4 & 1#6	4,823	LF	10.50	50,642
PVC- (2) 4"C-w/ ps	2,806	LF	12.50	35,075
CCTV	4	EA	3600	14400
OH&P 15%	1	LS	48,360.38	48,360
DJE	1	LS	25,000.00	25,000

				531,201
TOTAL G40 - SITE ELECTRICAL UTILITIES				1,445,864