

Student Recreational Center
University of Louisville
Louisville, Kentucky

(Revised) September 9, 2011

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1. This is an estimate of probable construction cost and is based on information obtained from the Means Cost Guide 2011, and other local conditions, and recent bidding information. As an estimate, it is subject to variations due to prevailing economic and labor conditions, and does not take into consideration such factors as managerial efficiency, competitive conditions, automation, restrictive union practices, or other premiums. This estimate does not include additional project costs such as professional services fees, printing, plan review, design contingency, furnishings, movable equipment, athletic equipment, premium for construction manager fee, 5% construction contingency, site survey or subsurface report, etc.
2. Given the uncertain market conditions on the costs of materials and fuel, a 4% increase per annum may be anticipated on 40% (estimated value of materials) of the total = 1.6 per year (0.75% for 6 months).
3. The unit prices shown in the Prime Contract Work items & trades prepared by Omni Architects include general contractor OH&P.
4. Savings due to City of Louisville Cost Index Modifiers (weighted @ 91.3%) are calculated using individual modifiers for each division rather than by using a single modifier for the entire construction cost.
5. Estimated maximum transfer of funds from MSD to UofL was calculated at \$519,235 based upon \$2/SF of permeable site for storm infiltration system. Estimate accounts for \$434,683 of the maximum allowed.
6. Food service equipment and cooler cases are owner furnished and installed.
7. Area summary:

First Floor:	71,592 GSF
Second Floor:	32,340 GSF
Third Floor	24,370 GSF
 Total:	 128,302 GSF
8. Area summary is in gross square feet to outside wall. June 14, 2011 estimate contained 128,280 GSF. Method does not include 1/2 values for 2 story spaces, overhangs, or canopies.
9. Estimate does not take in account contingency for removal of contaminated soil or hazardous materials if encountered. Owner budget of \$250,000 for environmental issues.
10. For CM Management fee add approximately 3%.
11. Assumes Owner budget of \$125,000 for Voice/Data/Security Equipment outside of infrastructure.
12. Costs do include prevailing wage rates, and appropriate taxes.
13. Estimate includes revisions made to project for brick masonry wall with back-up wall system. Estimated by Omni and Robert Pass to be an equivalent to Metal Panel cost. See renderings dated 8/20/11.
14. Special Inspections (SPIN) per KBC shall be contracted outside of the General Contractor's responsibilities, but is included in the Owner's Construction budget. SPIN Budget estimated to be \$140,000, therefore bids are estimated to be \$140,000 less than total above. See Page 1 "Construction Cost Summary".
15. Refer to independent estimate prepared by Robert Pass and Associates for comparative information dated September 9, 2011
16. Estimate includes Value Engineering additions and subtractions made on 6/8/11 and 6/9/11 with owner.
17. Estimate includes Underground Electric and Fiber along 4th Street. UofL transferred funds in the amount of \$370,000 to accommodate the inclusion of underground electric and fiber work. See Page 1 "Construction Cost Summary" for available construction budget.
18. Estimate Assumes floor to floor heights of 16' to Mezz, 32' to prime roof, 38' to 3rd floor, and 73' to Gym roof.
19. Estimate does not include cost of gray water harvesting for 4 LEED credits. Estimated cost at \$156,800.
20. Assumes Graphics, Signage, and Wayfinding are in owner separate FF&E budget.

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POTENTIAL COST SAVINGS

Budget to Estimate: -\$83,071

ITEM	VE / DA / AA	Savings
SITE		
1		Natural turf in lieu of artificial turf \$150,000
2		Delete great lawn fencing \$62,000
3		Delete small shrubs \$4,155
4		Deleting viewing berms at great lawn \$61,600
ARCHITECTURAL		
5		Delete Iso-Lat floor isolation system over Administration / Classroom areas \$75,000
6		Delete window protrusions from Gymnasiums \$69,120
7		Delete cantilevers at Southwest corners of MAC and upper level Gymnasium \$67,620
8		Delete acoustical wall panels from MAC \$30,000
9		Delete rubber stair treads and rubber tiles at landings \$21,130
10		Carpet in lieu of Mondo floor on upper two cardio levels of Weight/Fitness (excludes stairs/ramps) \$40,671
M/E/P		
11		Alternate to provide overhead utility relocation if project bids within budget \$352,454
12		Delete duress/Intrusion alarm system \$180,000
13		Two sports lights in lieu of three (Currently three at \$150,000) \$50,000
14		Digital surveillance system \$162,000
15		Delete emergency generator \$177,895
16		Change geothermal vault to below grade (MEP and Architectural) \$55,000
17		Provide natural gas domestic water and generator \$35,000
18		Delete high volume / low velocity fans in MAC \$16,000

Upper two levels area = 5,541 SF. Carpet @ 4.16 SF & Mondo @ 11.50 SF

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GENERAL REQUIREMENTS / DEMOLITION (Assumes General Contractor "Best Value")

GC OH&P Expenses/LEED/	20	Month	\$30,000.00	\$600,000	\$600,000
General Trades					\$813,588
Personnel (PM, Field Egr, Clerk, 4 laborers)	20	Month	\$8,500.00	\$170,000	
Builder's All-risk Insurance	1	Lump sum	\$67,000.00	\$67,000	
Public Liability Insurance	1	Lump sum	\$160,000.00	\$160,000	
Equipment	20	Month	\$200.00	\$4,000	
Supplies	20	Month	\$310.00	\$6,200	
Job Trailer Rental	20	Month	\$200.00	\$4,000	
Utilities	20	Month	\$540.00	\$10,800	
Project Superintendent	80	Week	\$2,200.00	\$176,000	
Temporary Heating	18	Week	\$3,000.00	\$54,000	
Temporary Power / Lights	10	Month	\$1,200.00	\$12,000	
Equipment Rental	1	Lump sum	\$25,000.00	\$25,000	
Work Area Fencing	1,400	Linear feet	\$14.64	\$20,496	
Work Area Partitions	1	Lump sum	\$2,600.00	\$2,600	
	1	Lump sum	\$0.00	\$0	
Bobcat and Operator	1	Lump sum	\$5,000.00	\$5,000	
Daily Cleaning	1	Lump sum	\$25,000.00	\$25,000	
Traffic Control/Management	1	Lump sum	\$9,150.00	\$9,150	
Mobilization	1	Lump sum	\$14,640.00	\$14,640	
Demobilization	1	Lump sum	\$14,640.00	\$14,640	
Quality Control	1	Lump sum	\$18,300.00	\$18,300	
Staking	7	Days	\$976.00	\$6,832	
Construction Signage	1	Lump sum	\$2,440.00	\$2,440	
Temp. Project Sign	1	Lump sum	\$1,830.00	\$1,830	
As-Built Survey	1	Lump sum	\$3,660.00	\$3,660	
General Disposal Fees	1	Lump sum	\$20,000.00	\$20,000	\$20,000
General Requirements Total				(5.30% of Total)	\$1,433,588

1. General Contractor profit is included. Includes LEED management fees and local permits.
2. Estimate based on a 20 month construction period. Actual construction period may vary depending on start-up date, weather, and size of the contracting firm.
3. GCOH&P is also included in Division 6 through 12 sections.

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SITWORK		(Carman)				
Demolition					X 1.12	\$224,448
Asphalt Demolition	120	Hours	\$1,600.00	\$215,040		
Concrete Demolition	24	Hours	\$350.00	\$9,408		
Asphalt Milling	0					
Tree Removal	0					
Structure Removal - Subsurface	0	Lump sum	\$10,000.00	\$0		
Site Clearing (Complete Tree Removal)	27	Each	\$400.00	\$12,096		\$12,096
Site Grading						\$112,829
Mass Excavation	60	Hours	\$400.00	\$26,880		
Finish Grading	40	Hours	\$250.00	\$11,200		
Topsoil Distribution	1,250	Cubic yard	\$22.00	\$30,800		
Silt Fencing	1,140	Linear feet	\$3.50	\$4,469		
Rock Check	600	Ton	\$15.00	\$10,080		
Const. Entrance / Storage Area	1	Allowance	\$25,000.00	\$28,000		
Inlet Protection	5	Each	\$250.00	\$1,400		
Concrete Pavements						\$126,258
Concrete Perv. Pavers (North pkg lot)	4,890	Square foot	\$6.50	\$35,599		
Concrete Pavement (Dumpster/Service)	2,280	Square foot	\$6.00	\$15,322		
Concrete Entrance Aprons	1	Each	\$5,000.00	\$5,600		
Concrete Curb and Gutter	316	Linear feet	\$15.00	\$5,309		
Concrete Ribbon Curbs	48	Linear feet	\$20.00	\$1,075		
Concrete Header Curb (6")	2,007	Linear feet	\$25.00	\$56,196		
Concrete Rolled Curb	213	Linear feet	\$30.00	\$7,157		
Bituminous Pavements						\$103,230
Asphalt (South Parking Service Drive)	3,265	Square yard	\$28.00	\$102,390		
Striping	1	Allowance	\$750.00	\$840		
Parking Blocks	57	Each	\$75.00	\$4,788		\$4,788
Site Structures						\$96,992
Concrete Form and Pour (Walls)	85	Cubic yard	\$600.00	\$57,120		
Concrete Footings for Walls	51	Cubic yard	\$250.00	\$14,280		
Masonry Dumpster Screen Wall	1	Lump sum	\$10,000.00	\$11,200		
Curb Inlet (New on 4th)	1	Each	\$3,000.00	\$3,360		
MSD Admin Fee	1	Lump sum	\$250.00	\$280		
Catch Basin	8	Each	\$1,200.00	\$10,752		
Landscape Development (Walkways)						\$169,132
Poured Concrete (Historic Mix)	17,416	Square foot	\$5.25	\$102,406		
Poured Concrete (Broom Finish)	898	Square foot	\$4.50	\$4,526		
Brick Pavers	3,471	Square foot	\$16.00	\$62,200		
Landscape Development (Great Lawn)						\$558,974
Viewing Berms	2,500	Cubic yard	\$22.00	\$61,600		
Viewing Berms Sod	2,395	Square yard	\$3.25	\$8,718		
Concrete Perimeter Curbs	580	Linear feet	\$30.00	\$19,488		
Concrete Sidewalk	10,500	Square feet	\$5.50	\$64,680		
Fencing	630	Linear feet	\$80.00	\$56,448		
Fencing (Chain Link)	50	Linear feet	\$20.00	\$1,120		
Fence Gates	5	Each	\$1,000.00	\$5,600		
Turf System	42,000	Square feet	\$7.00	\$329,280		
Containment Netting (29' high)	5	Each	\$650.00	\$3,640		
Containment Netting Poles	5	Each	\$1,500.00	\$8,400		
Landscape Development (Lawns)						\$37,842
Sodding	5,100	Square yard	\$3.25	\$18,564		
Irrigation System	22,950	Square feet	\$0.75	\$19,278		
Landscape Development (Plantings)						\$65,264
Landscape Edging	360	Linear feet	\$5.00	\$2,016		
Grasses	2,987	Each	\$15.00	\$50,182		
Ground Cover	1,326	Each	\$6.00	\$8,911		
Medium Shrubs	106	Each	\$35.00	\$4,155		
Landscape Development (Trees)						\$49,416
Small Trees	123	Each	\$225.00	\$30,996		
Medium Trees	4	Each	\$300.00	\$1,344		
Large Trees	21	Each	\$450.00	\$10,584		
Structural Soils	483	Cubic yard	\$12.00	\$6,492		
Furniture						\$16,240
Tree Grates	0	Each	\$2,100.00	\$0		
Bollards	14	Each	\$950.00	\$14,896		
Trash Enclosure Bollards	2	Each	\$600.00	\$1,344		

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Infiltration Basins (Great Lawn Area)				\$101,920
Excavation	1,500	Cubic feet	\$15.00	\$25,200
Filter Fabric	18,000	Square feet	\$0.20	\$4,032
Manholes	2	Each	\$1,800.00	\$4,032
Control Manhole	1	Each	\$2,500.00	\$2,800
Stone Backfill	2,700	Ton	\$20.00	\$60,480
24" Wrapped Pipe	120	Linear feet	\$40.00	\$5,376
Infiltration Basins (Plaza Area)				\$204,092
Excavation	2,855	Cubic yard	\$15.00	\$47,964
Filter Fabric	16,500	Square feet	\$0.20	\$3,696
Stone Backfill	5,000	Ton	\$20.00	\$112,000
24" wrapped pipe	240	Linear feet	\$40.00	\$10,752
Manholes	1	Each	\$2,500.00	\$2,800
Water Quality Unit	1	Each	\$24,000.00	\$26,880
Infiltration Basins (Front Plaza Area)				\$39,581
Excavation	500	Cubic yard	\$15.00	\$8,400
Filter Fabric	10,800	Square feet	\$0.20	\$2,419
Stone Backfill	875	Ton	\$20.00	\$19,600
24" Wrapped Pipe	142	Linear feet	\$40.00	\$6,362
Manholes	1	Each	\$2,500.00	\$2,800
Infiltration Basins (Service Area)				\$56,482
Excavation	450	Cubic yard	\$15.00	\$7,560
Filter Fabric	21,400	Square feet	\$0.20	\$4,794
Stone Backfill	770	Ton	\$20.00	\$17,248
Water Quality Unit	1	Each	\$24,000.00	\$26,880
On-Site Utilities (Storm Drainage)				\$32,609
12" Pipe HDPE	705	Linear feet	\$22.00	\$17,371
6" Pipe HDPE	210	Linear feet	\$18.00	\$4,234
12 RCP New Connect to Existing	35	Linear feet	\$75.00	\$2,940
Trench Drain	60	Linear feet	\$120.00	\$8,064
On-Site Utilities (Sanitary)				\$34,216
6" Lateral	490	Linear feet	\$35.00	\$19,208
4' SS Manhole	3	Each	\$1,800.00	\$6,048
Service Tap and Fee	1	Lump sum	\$8,000.00	\$8,960
On-Site Utilities (Water Systems)				\$71,092
Domestic Water Lines	475	Linear feet	\$15.00	\$7,980
Fire Protection Lines	650		\$25.00	\$18,200
Irrigation Service Line to Building	475		\$8.00	\$4,256
Drinking Fountain (Great Lawn)	1	Each	\$2,000.00	\$2,240
Quick Couplet Connection (Great Lawn)	2	Each	\$350.00	\$784
Tap Fee and Metering for Domestic	1	Lump sum	\$9,000.00	\$10,080
Tap Fee and Metering for Fire	1	Lump sum	\$12,000.00	\$13,440
Tap Fee and Metering for Irrigation	1	Lump sum	\$9,000.00	\$10,080
Fire Hydrants	2	Each	\$1,200.00	\$2,688
Valves	3	Each	\$400.00	\$1,344
Site General Conditions	1	Lump sum	\$74,816.00	\$74,816
Sitework Total			(8.1% of Total)	\$2,192,315

Notes:

1. Does not include any exterior art.
2. All Excavated materials will be hauled from site and disposed.
3. All topsoil materials will be imported.
4. All exterior furnishing are by Owner from FF&E budget.
5. Site signage is by Owner.
6. This estimate does not include any removal and disposition of subsurface materials that are contaminated or do not meet structural criteria for buildings or site developments.
7. This estimate does not include any design contingencies for site development components that are typically included that would be quantified during an advanced level of site design and engineering.
8. Construction Staking and As-Built surveys by the Owner.
9. Estimate does not include a rain harvesting system for irrigation that may be required to attain 4 LEED points.

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CONCRETE		(Rangaswamy)			
Foundation					
Augercast Pile	133	Each	\$2,000.00	\$266,000	\$564,700
Mobilization	1	Lump sum	\$15,000.00	\$15,000	
Test Pile	1	Lump sum	\$15,000.00	\$15,000	
Pile Caps	439	Cubic yards	\$400.00	\$175,600	
Tie Beams	266	Cubic yards	\$350.00	\$93,100	
Floor Concrete					
Slab on Grade	1,210	Cubic yards	\$150.00	\$181,425	516,295
Elevated Slabs	968	Cubic yards	\$175.00	\$169,400	
Topping Slabs	130	Cubic yards	\$175.00	\$22,750	
Concrete Finishing	142,720	Square foot	\$1.00	\$142,720	
Concrete Total			(4.00% of Total)		\$1,080,995

1. Assumes 6,100 SF of Double Slab CDM-ISO-LAT Wet Set-Up Floor under Aerobics rooms and Storage. See Acoustics.

MASONRY		(Omni)			
Concrete Masonry Unit Partitions					
12" CMU (North & West Stair Towers)	8,500	Square feet	\$12.05	\$102,425	\$461,242
8" CMU Partition	33,778	Square feet	\$9.35	\$315,824	
Reinforced (Add)	42,278	Square feet	\$0.30	\$12,683	
Staging / Scaffolding	6,148	Square feet	\$2.00	\$12,296	
Masonry Ties, Etc.	0	Square feet	\$1.20	\$0	
Metal Panel Furring	6,148	Square feet	\$2.93	\$18,014	
Brick Veneer					
Modular Face Brick, Running Bond	10,435	Square feet	\$15.45	\$161,221	\$197,308
Staging / Scaffolding	10,435	Square feet	\$2.00	\$20,870	
Masonry Ties, Etc.	10,435	Square feet	\$0.50	\$5,218	
Masonry Accessories	1	Lump sum	\$10,000.00	\$10,000	
Subtotal					\$658,551
City Index Reduction	0.84	Modifier Factor			
Masonry Total			(2.05% of Total)		\$553,182

1. CIP sandblasted concrete plinth below 100'-0" F.F.E.

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METALS		(Omni & Rangaswamy)				
Metal Decking						\$922,935
	1.5" Roof Decking	34,125	Square feet	\$3.00	\$102,375	
	3" Floor Composite Decking	34,125	Square feet	\$3.00	\$102,375	
	Gym Epicore Floor Decking	24,370	Square feet	\$12.00	\$292,440	
	Gym Epicore Roof Decking	24,370	Square feet	\$9.00	\$219,330	
	Fitness Epicore Decking	13,900	Square feet	\$9.00	\$125,100	
	MAC Epicore Roof Decking	9,035	Square feet	\$9.00	\$81,315	
Wide Flange Beams		271.40	Ton	\$3,600.00	\$977,040	\$977,040
Columns						\$852,300
	Round Tube	26.50	Ton	\$3,900.00	\$103,350	
	Square Tube	155.30	Ton	\$3,900.00	\$605,670	
	Wide Flange	39.80	Ton	\$3,600.00	\$143,280	
Tube Steel Trusses						\$1,149,000
	MAC Roof (5 Trusses Total)	22.26	Ton	\$4,000.00	\$89,040	
	Gymnasium Floor (10 Trusses Total)	135.42	Ton	\$4,000.00	\$541,680	
	Gymnasium Roof (10 Trusses Total)	90.67	Ton	\$4,000.00	\$362,680	
	Fitness Area Roof (7 Trusses Total)	38.90	Ton	\$4,000.00	\$155,600	
Bar Joists						\$46,650
	16K3	3.50	Ton	\$3,000.00	\$10,500	
	16K4	2.42	Ton	\$3,000.00	\$7,260	
	16K5	1.37	Ton	\$3,000.00	\$4,110	
	20K3	3.15	Ton	\$3,000.00	\$9,450	
	20K6	5.11	Ton	\$3,000.00	\$15,330	
Wall / Partition Framing (Omni)						\$61,935
	6" Cold-Formed Studs, 16" OC	16,385	Square feet	\$3.78	\$61,935	
	Fasteners, Anchors, Etc.	0	Square feet	\$1.00	\$0	
Egress Stairs (Omni)						\$119,868
	4'-0" Shop Fab Stair w/ Rails	150	Each riser	\$620.00	\$93,000	
	Landings	265	Square feet	\$79.50	\$21,068	
	Pipe Wall Rail	0	Linear Foot	\$34.00	\$0	
	Fasteners, Anchors, Etc.	1	Lump sum	\$5,800.00	\$5,800	
Decorative Stairs w/ Rails (Omni)		30	Each riser	\$1,000.00	\$30,000	\$30,000
Railings (Omni)						\$171,880
	Painted Steel and S.S. Cable Guardrails	640	Linear feet	\$250.00	\$160,000	
	Painted Aluminum Handrails	132	Linear feet	\$90.00	\$11,880	
Miscellaneous Metals						\$508,690
	Access Ladders	50	Linear feet	\$75.50	\$3,775	
	Angles - L4x4x1/2	3.46	Ton	\$4,000.00	\$13,840	
	Base Plates	113	Each	\$35.00	\$3,955	
	Anchor Bolts	452	Each	\$25.00	\$11,300	
	North Wall Tube X-Bracing	21.48	Ton	\$4,000.00	\$85,920	
	Gym West Wall Tube Framing	32.83	Ton	\$4,000.00	\$131,320	
	MAC West Wall Tube Framing	9.66	Ton	\$4,000.00	\$38,640	
	Truss X-Bracing / T&B Chord Bracing	26.58	Ton	\$4,000.00	\$106,320	
	Gym Lateral Tube Bracing	20.01	Ton	\$4,000.00	\$80,040	
	Miscellaneous Steel Tubes	4.52	Ton	\$4,000.00	\$18,080	
	Metal Grating	8	Square feet	\$62.50	\$500	
	Galvanized Lintels, Etc.	1	Lump sum	\$15,000.00	\$15,000	
Metals Total						\$4,840,298
				(17.90% of Total)		

1. Assumes acoustical deck in MAC, Fitness / Track area, and 3rd Level Gym.
2. Assumes 6,100 SF of Double Slab CDM-ISO-LAT Wet Set-Up Floor under Aerobics rooms and Storage. See Acoustics.

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CARPENTRY, MILLWORK, & CASEWORK		(Omni)				
Rough Carpentry & Blocking	1	Lump sum	\$15,000.00	\$15,000		\$15,000
Exterior Gypsum, 1/2"DenseGlas mud/taped	10,435	Square feet	\$1.79	\$18,679		\$18,679
Restroom Counter Tops						\$11,100
Solid Surface	74	Linear feet	\$150.00	\$11,100		
Casework						\$95,285
Check-In Desk w/ Solid Surfacing Counter top	63	Linear feet	\$450.00	\$28,350		
Administration Reception Desk w/ P.L. Countertop	22	Linear feet	\$395.00	\$8,690		
Base Cabinets w/ P.L. Countertop	68	Linear feet	\$375.00	\$25,500		
Wall Cabinets	40	Linear feet	\$228.00	\$9,120		
Weight/Fitness Room Cubbies	75	Linear feet	\$175.00	\$13,125		
Sports Club Seatwall	1	Lump sum	\$8,000.00	\$8,000		
Food Service Casework	60	Linear feet	\$0.00	\$0		
Cabinet Accessories	1	Lump sum	\$2,500.00	\$2,500		
Subtotal						\$140,064
City Index Reduction	0.89	Modifier Factor				
Carpentry, Millwork, & Casework Total			(0.46% of Total)			\$124,657

THERMAL & MOISTURE PROTECTION		(Omni)				
Waterproofing						\$6,818
Waterproofing, Fluid Applied Asphalt	3,030	Square feet	\$2.25	\$6,818		
Drain Board w/ Filter Fabric	0	Square feet	\$0.95	\$0		
Masonry Water Repellent @ Plinth (2 coats)	10,435	Square feet	\$0.96	\$10,018		\$10,018
Polypropylene Vapor Retarder (.004)	12,885	Square feet	\$0.18	\$2,319		\$2,319
Fluid Applied Air Infiltration Barrier	10,435	Square feet	\$1.75	\$18,261		\$18,261
Insulation						\$81,261
Foundation, R-8 2" E.P.S.	5,640	Square feet	\$1.42	\$8,009		
Walls, R-10 2" Rigid Polyiso.	12,885	Square feet	\$1.59	\$20,487		
Walls, R-19 Fiberglass Faced Batts	12,885	Square feet	\$1.24	\$15,977		
Interior Walls, Acoustical Batts	29,370	Square feet	\$1.13	\$33,188		
Miscellaneous Insulation	1	Lump sum	\$3,600.00	\$3,600		
Fireproofing						\$593,485
Spray Fireproofing on Deck	67,700	Square feet	\$3.00	\$203,100		
Intumescent On Trusses (Lower Gym Only)	4,200	Square feet	\$14.30	\$60,060		
Spray Fireproofing on Columns	10,800	Square feet	\$1.69	\$18,252		
Intumescent Paint on Columns	21,124	Square feet	\$14.30	\$302,073		
Firestopping	1	Lump sum	\$10,000.00	\$10,000		
Sealants						\$18,000
Exterior Gaskets, Fillers, Caulking	1	Lump sum	\$10,000.00	\$10,000		
Interior Caulking	1	Lump sum	\$8,000.00	\$8,000		
Silver Metallic Insulated Metal Sandwich Panels						\$1,700,454
3" Striated Wall Panel (Centria Formawall 3T)	35,172	Square feet	\$37.00	\$1,301,364		
3" Corrugated Wall Panel (Centria Formawall DS60-3T)	4,340	Square feet	\$55.00	\$238,700		
3" Striated Soffit Panel (Centria Formawall 3T)	2,550	Square feet	\$37.00	\$94,350		
3" Striated Panels @ Protrusions (Centria Formawall 3T)	928	Linear feet	\$55.00	\$51,040		
Miscellaneous Aluminum Trim	1	Lump sum	\$15,000.00	\$15,000		
SBS Modified Membrane Roofing System - Cool Roof						\$692,080
Two Ply Built-Up Hot Applied	73,000	Square feet	\$4.50	\$328,500		
1/2" Protection Board	73,000	Square feet	\$1.15	\$83,950		
Roof Polyisocyanurate, 4" + Tapered	73,000	Square feet	\$2.75	\$200,750		
Reglets, Flashings and Boots	1	Lump sum	\$10,000.00	\$10,000		
Miscellaneous Flashings	1	Lump sum	\$10,000.00	\$10,000		
Integral Metal Panel Copings (Centria)	1,400	Linear feet	\$26.00	\$36,400		
Prefinished Aluminum Copings (Metal-Era)	600	Linear feet	\$25.00	\$15,000		
Prefinished Aluminum Gravel Stop	0	Linear feet	\$13.70	\$0		
SS Expansion Joints	0	Linear feet	\$22.50	\$0		
Wood Blocking	2,000	Linear feet	\$3.74	\$7,480		
Roof Accessories						\$9,730
Roof Hatch	2	Each unit	\$865.00	\$1,730		
Window Wash Mounts (Code)	20	Each unit	\$150.00	\$3,000		
Roof Ladders	2	Each unit	\$1,500.00	\$3,000		
Walkway Pads, Etc.	1	Lump sum	\$2,000.00	\$2,000		
Subtotal						\$3,132,426
City Index Reduction	0.93	Modifier Factor				
Thermal & Moisture Protection Total			(10.78% of Total)			\$2,913,156

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DOORS & WINDOWS		(Omni)				
Door Frames (14 gage ext/16 gage int)						\$16,778
	Galvanized Steel, 72"x84"	1	Each frame	\$322.00	\$322	
	Galvanized Steel, 36"x84"	3	Each frame	\$266.80	\$800	
	Hollow Metal, 36"x84"	53	Each frame	\$232.00	\$12,296	
	Hollow Metal, 72"x84"	12	Each frame	\$280.00	\$3,360	
	Hollow Metal, 96"x84"	0	Each frame	\$315.00	\$0	
Doors						\$44,614
	Galvanized Steel, 36"x84"	5	Each door	\$615.25	\$3,076	
	Hollow Metal, 36" x 84"	0	Each door	\$535.00	\$0	
	Hollow Metal, 42" x 84"	0	Each door	\$760.00	\$0	
	Hollow Metal w/Lite 36" x 84"	0	Each door	\$634.00	\$0	
	Wood Flush Panel, 36"x84"	53	Each door	\$350.00	\$18,550	
	Wood Flush Panel w/Lite, 36"x84"	12	Each door	\$449.00	\$5,388	
	Aluminum Door w/ 1" Glazing, 36"x84"	8	Each door	\$2,200.00	\$17,600	
Door Hardware						\$128,570
	Exterior Panic Device, Hinges, Stops	25	Each door	\$1,415.00	\$35,375	
	Handicap Automatic Door Opener	3	Each unit	\$5,925.00	\$17,775	
	Interior Lockset, Hinges, Stops	77	Each door	\$815.00	\$62,755	
	Thresholds, Weatherstrip, etc.	13	Each door	\$205.00	\$2,665	
	Specialty Hardware	1	Lump sum	\$10,000.00	\$10,000	
Windows						\$2,316,722
	9" North Gym Curtain Wall, 1" Glazing (Kawneer 1600)	6,600	Square feet	\$112.00	\$739,200	
	7 1/2" Curtain Wall, 1" Glazing (Kawneer 1600)	3,796	Square feet	\$82.00	\$311,272	
	4 1/2" Storefront, 1" Glazing (Kawneer 451T)	7,225	Square feet	\$40.00	\$289,000	
	3" Metal Panel Windows, 1" Glazing (Centria 600 Series)	7,210	Square feet	\$55.00	\$396,550	
	3" Metal Panel Windows, Curved (Centria 600 Series)	370	Square feet	\$180.00	\$66,600	
	1" Frit Glazing (add)	4,280	Square feet	\$10.00	\$42,800	
	Frosted Glazing on West Elevation	4,895	Square feet	\$10.00	\$48,950	
	1" Spandrel/Frit (add)	4,000	Square feet	\$15.00	\$60,000	
	Interior 4 1/2" Storefront, 1/4" Glazing (Kawneer 451)	4,335	Square feet	\$50.00	\$216,750	
	Interior Storefront, Glazing (2-Hour Rated)	140	Square feet	\$400.00	\$56,000	
	Interior Structural Glazed (MAC lower level)	640	Square feet	\$140.00	\$89,600	
	Interior Hollow Metal, 1/4" Glazing	0	Square feet	\$25.00	\$0	
	Mirror, Frameless (7' Tall)	2,222	Square feet	\$16.75	\$37,219	\$37,219
	Access Panels, 24"x24"	15	Each unit	\$200.00	\$3,000	\$3,000
	Coiling Counter Grills @ Food Service (Manual 20' X 10')	1	Each unit	\$10,000.00	\$10,000	\$10,000
	Exterior Louvers	1,175	Each unit	\$55.00	\$64,625	\$64,625
	Miscellaneous Glazing Accessories	1	Lump sum	\$6,000.00	\$6,000	\$6,000
	Subtotal					\$2,627,528
	City Index Reduction	0.88	Modifier Factor			
Doors & Windows Total						(8.55% of Total) \$2,312,225

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FINISHES		(Omni & Cannon)			
Light-Gage Framing					\$55,327.20
	Interior Metal Studs, Walls 3 5/8"	23,450	Square feet	\$1.64	\$38,458
	Interior Metal Studs, Walls 6"	9,320	Square feet	\$1.81	\$16,869
	One Hour Shaft Wall Assembly	0	Square feet	\$6.65	\$0
	Ceiling Suspension System and Framing (See Ceilings)	0	Square feet	\$2.75	\$0
Wall / Partition Finishes					\$119,500.98
	5/8" Gypsum Board	65,400	Square feet	\$1.46	\$95,484
	5/8" G. B., Moisture Resistant	0	Square feet	\$1.59	\$0
	5/8" G.B. Abuse Resistant	4,930	Square feet	\$2.25	\$11,093
	5/8" Tile Backer Board	1,344	Square feet	\$2.92	\$3,924
	Extruded Aluminum Accessories	1	Lump sum	\$9,000.00	\$9,000
Floors					\$977,200.43
	Polished/Burnished Concrete	17,097	Square feet	\$7.00	\$119,679
	Sealed Concrete	12,654	Square feet	\$0.17	\$2,151
	Tile Carpet	1,040	Square yard	\$37.50	\$39,000
	Epoxy Flooring in lieu of Carpet in Locker Rooms (Add)	3,363	Square feet	\$8.50	\$28,586
	Rubber Stair Treads, Risers	600	Linear Feet	\$22.50	\$13,500
	Rubber Tile Landings	700	Square feet	\$10.90	\$7,630
	Rubber Tile Elevator	60	Square feet	\$10.90	\$654
	Resilient Sheet	0	Square feet	\$6.25	\$0
	VCT Resilient Tile	0	Square feet	\$2.74	\$0
	Linoleum Tile	0	Square feet	\$3.25	\$0
	Transition Strips, etc.	1	Lump sum	\$4,000.00	\$4,000
	(Aerobics & Sports Club) Robbins Bio Cushion Classic	8,200	Square feet	\$9.50	\$77,900
	(Gymnasiums) Horner CRP Resilient Maple Flooring	38,000	Square feet	\$10.00	\$380,000
	(MAC) Robbins Pulastic 2000 (7+2)	7,420	Square feet	\$10.00	\$74,200
	(Running Track) Robbins Pulastic (7+2)	5,325	Square feet	\$10.11	\$53,836
	(Weight/Fitness) Mondo Sport Impact Flooring	15,310	Square feet	\$11.50	\$176,065
	(Spinning) Mondo Harmoni	0	Square feet	\$7.00	\$0
	Resilient Base	6,660	Linear Feet	\$2.69	\$17,915
Ceramic Tile					\$109,610.40
	Walls (Wet Walls and Showers - 8' Tall)	4,544	Square feet	\$12.35	\$56,118
	Base	985	Linear Feet	\$13.40	\$13,199
	Floors, Mud Set (All Restrooms and Showers)	3,330	Square feet	\$12.10	\$40,293
Ceilings (Including Suspension & Framing Systems)					\$210,608.04
	Acoustical Panel Ceiling (Administration)	7,730	Square feet	\$3.00	\$23,190
	Acoustical Panel Ceiling (Corridors/Track/Upper Fitness)	16,215	Square feet	\$3.00	\$48,645
	Acoustical Panel Ceiling (Locker Rooms)	4,885	Square feet	\$4.00	\$19,540
	Acoustical Panel Ceiling (Aerobics)	3,842	Square feet	\$5.10	\$19,594
	Metal Panel Ceilings (Lobby)	4,040	Square feet	\$10.75	\$43,430
	Gypsum Board Ceilings and Framing	10,327	Square feet	\$4.92	\$50,809
	Extruded Aluminum Accessories	1	Lump sum	\$5,400.00	\$5,400
	Sound Absorbtion Ceiling Panels (Not Used)	0	Square feet	\$13.40	\$0
	Sound Absorbtion Wall Panels (See Acoustics)	0	Square feet	\$10.40	\$0
	Exterior Painting	1	Lump sum	\$10,000.00	\$10,000
	Wall Coverings	0	Square feet	\$4.94	\$0
Interior Painting					\$189,220.90
	Walls, Gypsum Board	70,330	Square feet	\$0.88	\$61,890
	Walls, CMU	70,750	Square feet	\$0.91	\$64,383
	Staining and Transparent Finish	0	Square feet	\$1.19	\$0
	Ceilings, Gypsum Board	750	Square feet	\$1.00	\$750
	Exposed Structure Dryfall (Color: Black)	46,450	Square feet	\$0.54	\$25,083
	Door Frames, Hollow Metal	68	Each Frame	\$55.00	\$3,740
	Doors, Hollow Metal	5	Each Frame	\$75.00	\$375
	High Perform. Coatings on Steel	1	Lump sum	\$25,000.00	\$25,000
	High Perform. Coatings (Epoxy)	0	Square feet	\$1.27	\$0
	Miscellaneous Interior Painting	1	Lump sum	\$8,000.00	\$8,000
Miscellaneous Finishes					\$15,000.00
	Subtotal				\$1,704,383
	City Index Reduction	0.9	Modifier Factor		
Finishes Total				(5.67% of Total)	\$1,533,945

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SPECIALTIES

(Omni)

Toilet Partitions, Phenolic Resin						31,185
Standard Compartment	15	Each item	\$1,100.00	\$16,500		
Accessible Compartment	9	Each item	\$1,415.00	\$12,735		
Privacy Screens	6	Each item	\$325.00	\$1,950		
Wire Mesh Partitions	220	Square feet	\$6.25	\$1,375		\$1,375
Operable Partition	220	Square feet	\$91.00	\$20,020		\$20,020
Building Dedication Plaque by Owner (FFE)	0	Each item	\$1,200.00	\$0		\$0
Building Directories by Owner (FFE)	0	Each item	\$1,000.00	\$0		\$0
Marker Boards, 4'x8'	8	Each item	\$770.00	\$6,160		\$6,160
Bulletin Boards, 4'x4'	10	Each item	\$307.00	\$3,070		\$3,070
Smart Boards (FFE)	0	By Owner	\$0.00	\$0		\$0
Signage						35,000
Room Name and Number by Owner (FFE)	0	Each sign	\$65.50	\$0		
Room Number, Door Head by Owner (FFE)	0	Each sign	\$15.00	\$0		
Way Finding by Owner (FFE)	0	Lump sum	\$20,000.00	\$0		
Interior Graphics (FFE)	0	Lump sum	\$20,000.00	\$0		
14" Dimensional Letter Signage	1	Lump sum	\$15,000.00	\$15,000		
Exterior Building Logo	1	Lump sum	\$20,000.00	\$20,000		
Fire Protection Specialties						\$3,340
Extinguisher Cabinet, Recessed	10	Each unit	\$280.00	\$2,800		
ABC 5lb. Fire Extinguisher	10	Each unit	\$54.00	\$540		
Corner Guards 48" H	0	Each unit	\$150.00	\$0		\$0
Restroom Accessories						242,255
24" Grab Bars, Stainless Steel	46	Each unit	\$55.50	\$2,553		
36" Grab Bars, Stainless Steel	14	Each unit	\$64.00	\$896		
42" Grab Bars, Stainless Steel	14	Each unit	\$77.00	\$1,078		
Feminine Napkin Disposal by Vendor	20	Each unit	\$0.00	\$0		
Mirror, Stainless Steel Frame, Surface Mount	18	Each unit	\$146.00	\$2,628		
Elect. Hand / Hair Dryers	10	Each unit	\$750.00	\$7,500		
Toilet Paper Dispensers by Vendor	24	Each unit	\$0.00	\$0		
Soap Dispensers by Vendor	10	Each unit	\$0.00	\$0		
Mop / Broom Holder and Shelf	4	Each unit	\$114.00	\$456		
Shower Rods	16	Each unit	\$78.00	\$1,248		
Shower Curtains	16	Each Unit	\$28.00	\$448		
Fixed Shower Seat	16	Each Unit	\$250.00	\$4,000		
Foldng Shower Seat	4	Each Unit	\$282.00	\$1,128		
Coat Hooks	20	Each unit	\$31.00	\$620		
Baby Changing Stations	2	Each unit	\$300.00	\$600		
Locker Room Benches	450	Linear Feet	\$50.00	\$22,500		
Lockers 18"x18" (Single and Dbl Tier per Footprint)	476	Each unit	\$350.00	\$166,600		
Day Lockers 15"x15"x15"	200	Each unit	\$90.00	\$18,000		
Lockers Base	1	Lump sum	\$10,000.00	\$10,000		
Miscellaneous Restroom Accessories	1	Lump sum	\$2,000.00	\$2,000		
Industrial Metal Shelving By Owner (FFE)	0	Shelf SF	\$7.10	\$0		\$0
Miscellaneous Specialties	1	Lump sum	\$2,000.00	\$2,000		\$2,000
Subtotal						\$344,405
City Index Reduction	0.99	Modifier Factor				
Specialties Total				(1.26% of Total)		\$340,961

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ACOUSTICS		(dbaAcoustics)				
Public Address & Audio						138,000
	Gymnasiums	1	Lump sum	\$76,000.00	\$76,000.00	
	MAC Gym	1	Lump sum	\$32,000.00	\$32,000.00	
	Aerobics Room 1	1	Lump sum	\$10,000.00	\$10,000.00	
	Aerobics Room 2	1	Lump sum	\$10,000.00	\$10,000.00	
	Aerobics Room 3	1	Lump sum	\$10,000.00	\$10,000.00	
Public Address						\$36,000
	Fitness and Weights	1	Lump sum	\$7,000.00	\$7,000.00	
	Classroom (Large)	1	Lump sum	\$1,000.00	\$1,000.00	
	Classrooms (Small)	2	Each	\$500.00	\$1,000.00	
	Administration	1	Lump sum	\$4,000.00	\$4,000.00	
	Lobby / Lounge / Check-in	1	Lump sum	\$3,000.00	\$3,000.00	
	Fitness / Stretching / Gaming	1	Lump sum	\$1,000.00	\$1,000.00	
	First Level Corridors	1	Lump sum	\$2,000.00	\$2,000.00	
	Conference	1	Lump sum	\$1,000.00	\$1,000.00	
	Locker Rooms	1	Lump sum	\$2,000.00	\$2,000.00	
	Sports Club	1	Lump sum	\$2,000.00	\$2,000.00	
	Second Level Fitness	1	Lump sum	\$4,000.00	\$4,000.00	
	Second Level Stretching and Fitness	1	Lump sum	\$3,000.00	\$3,000.00	
	Racquetball Courts	1	Lump sum	\$2,000.00	\$2,000.00	
	Second Level Corridors	1	Lump sum	\$2,000.00	\$2,000.00	
	Third Level Corridors	1	Lump sum	\$1,000.00	\$1,000.00	
Acoust. Floor Isolation - CDM-ISO-LAT Isolated Floor						75,000
	Aerobics Room 1	1	Lump sum	\$25,000.00	\$25,000.00	
	Aerobics Room 2	1	Lump sum	\$21,000.00	\$21,000.00	
	Aerobics Room 3	1	Lump sum	\$10,000.00	\$10,000.00	
	Spaces Adjacent to Aerobics Rooms	1	Lump sum	\$19,000.00	\$19,000.00	
Acoustical Wall Panels (MAC Only)		1	Lump sum	\$30,000.00	\$30,000.00	\$30,000
Acoustics Total				(1.03% of Total)		\$279,000

1. Refer to Book 1, Section 12 "Audio/Acoustics" for audio and PA equipment descriptions.

EQUIPMENT		(Omni)				
Audio-Visual Aids (No projector for Spinning)						\$23,500
	Projection Screen with Unistrut, Powered	4	Each item	\$2,050.00	\$8,200	
	Projector Bracket with Unistrut, Fixed	4	Each item	\$700.00	\$2,800	
	Television Brackets	20	Each item	\$475.00	\$10,000	
	Multi-Display Television Brackets	0	Each item	\$1,500.00	\$0	
	Miscellaneous Accessories	1	Lump sum	\$2,500.00	\$2,500	
Pedestrian Control (Security Turnstiles)		5	Each item	\$2,625.00	\$13,125.00	\$13,125
Athletic Equipment (Confirm in DD)						\$202,525
	Retractable(Sideways)Basketball Goals	12	Each item	\$6,000.00	\$72,000	
	Divider Curtain	416	Linear feet	\$80.00	\$33,280	
	Volleyball Set w/ Sockets	4	Each item	\$4,000.00	\$16,000	
	Optional Overhead Volleyball	0	Lump sum	\$10,000.00	\$0	
	Badminton Set w/ Sockets	12	Each item	\$1,300.00	\$15,600	
	Scoreboards	7	Each item	\$6,000.00	\$42,000	
	Controllers	2	Each item	\$3,500.00	\$7,000	
	Wall Pads	1,536	Square feet	\$9.30	\$14,285	
	Dance Bar	100	Linear feet	\$23.60	\$2,360	
	Dasher Boards	0	Linear feet	\$178.00	\$0	
Commercial Kitchen Equipment (By Owner)		0	Lump sum	\$10,000.00	\$0	\$0
Residential Kitchen Equipment						\$20,350
	Refrigerators, Full Size with Ice Maker by Owner FFE	2	Each item	\$0.00	\$0	
	Icemaker by Owner FFE	2	Each item	\$0.00	\$0	
	Dishwasher By Owner FFE	2	Each item	\$0.00	\$0	
	Microwave By Owner FFE	2	Each item	\$0.00	\$0	
	Range	0	Each item	\$0.00	\$0	
	Elec Commercial Dryer	2	Each item	\$3,600.00	\$7,200	
	Elec Commercial Washer	2	Each item	\$6,575.00	\$13,150	
Subtotal						\$259,500
City Index Reduction		0.99	Modifier Factor			
Equipment Total				(0.95% of Total)		\$256,905

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FURNISHINGS		(Omni)			
Building Furnishings					
Manual Window Roller Blinds (Offices Only)	1,200	Square feet	\$10.00	\$12,000	\$12,000
Electric Window Roller Blinds	0	Square feet	\$15.00	\$0	\$0
Medical Difibulator (Rough-in Only)	1	Each	\$0.00		
Recessed Entrance Floor Mats (LEED)	240	Square feet	\$26.50	\$6,360	\$6,360
Raquetball Court					\$220,275
Walls	3	Per Court	\$20,325.00	\$60,975	
All-Glass Structural Wall	4	Courts	\$12,000.00	\$48,000	
Premium for Movable Squash Partition	1	Lump Sum	\$10,000.00	\$10,000	
Robbins Sportwood Maple Floor	4	Per Court	\$15,900.00	\$63,600	
Ceiling	4	Per Court	\$9,425.00	\$37,700	
Subtotal					\$238,635
City Index Reduction	0.99	Modifier Factor			
Furnishings Total			(0.87% of Total)		\$236,249

CONVEYING SYSTEMS		(Omni)			
4500 lb. Capacity, 3 Stop Hydraulic, 175 fpm	1	Each item	\$107,950.00	\$107,950	\$107,950
10,000 lb. Capacity, 3 Stop Hydraulic	0	Each item	\$163,800.00	\$0	\$0
Conveying Systems Total			(0.40% of Total)		\$107,950

MECHANICAL		(CMTA)			
Wellfield	150	Each	\$6,000.00	\$900,000	\$900,000
HVAC (CxA in Arch fees)					\$2,905,000
Outside Air System / Louvers / Terminal Units	1	Lump sum	\$300,000.00	\$300,000	
HVLS Fans	1	Lump sum	\$145,000.00	\$145,000	
Heat Pumps	1	Lump sum	\$350,000.00	\$350,000	
Water to Water Heat Pump and Storage System	1	Lump sum	\$110,000.00	\$110,000	
HVAC Piping and Insulation	1	Lump sum	\$325,000.00	\$325,000	
Ductwork / Diffusers / Insulation	1	Lump sum	\$1,100,000.00	\$1,100,000	
Test and Balance	1	Lump sum	\$60,000.00	\$60,000	
Temperature Control	1	Lump sum	\$450,000.00	\$450,000	
Commissioning Contractors	1	Lump sum	\$65,000.00	\$65,000	
Plumbing					\$695,800
Plumbing Equipment	1	Lump sum	\$96,800.00	\$96,800	
Fixures	1	Lump sum	\$94,000.00	\$94,000	
Water Piping and Installation	1	Lump sum	\$143,000.00	\$143,000	
Waste and Vent Piping	1	Lump sum	\$115,000.00	\$115,000	
Roof Drains / Piping	1	Lump sum	\$214,500.00	\$214,500	
Natural Gas Piping	1	Lump sum	\$32,500.00	\$32,500	
Fire Protection	128,302	Square feet	\$3.25	\$416,982	\$416,982
Mechanical Total			(18.19% of Total)		\$4,917,782

ELECTRICAL		(CMTA)			
Normal Power					\$1,206,510
Primary Service Transformer and Primary Switch	1	Lump sum	\$125,000.00	\$125,000	
Secondary Service Entry	1	Lump sum	\$40,000.00	\$40,000	
Main Switchboard - 2,500 Amps, 5 Sections	1	Lump sum	\$120,000.00	\$120,000	
Small Power, Panelboards and Dry Type Transformers	128,302	Square feet	\$5.00	\$641,510	
Grounding / Bonding Connections to Building Systems	1	Lump sum	\$25,000.00	\$25,000	
Receptacle / Switches	1	Lump sum	\$120,000.00	\$120,000	
Mechanical Equipment Connections	1	Lump sum	\$135,000.00	\$135,000	
Emergency Power					\$173,302
Generator	150	\$/KW	\$300.00	\$45,000	
Small Power, Panelboards and Dry Type Transformers	128,302	Square feet	\$1.00	\$128,302	
Lighting					\$1,218,114
High Efficiency Fluorescent Light Fixtures	1	Lump sum	\$140,000.00	\$140,000	
Suspended D/I	1	Lump sum	\$160,000.00	\$160,000	
Misc Office / Corridor / Building Lighting	128,302	Square feet	\$6.00	\$769,812	
Lighting Circuiting	128,302	Square feet	\$1.00	\$128,302	
Exit Signs	1	Lump sum	\$20,000.00	\$20,000	
Occupancy Sensors (Included)					
Sports Lighting	1	Lump Sum	\$150,000.00	\$150,000	\$150,000
Electrical Total			(10.16% of Total)		\$2,747,926

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COMMUNICATIONS		(CMTA)		
Telecomm (Passive Data/Voice/Video/Sound)	128,302	Square feet	\$4.00	\$513,208
Communications Total			(1.90% of Total)	\$513,208

SAFETY AND SECURITY		(CMTA)		
Security (Access Control, Digital Surveillance, Intrusion)	1	Lump sum	\$380,000.00	\$380,000
Digital Fire Alarm System	128,302	Square feet	\$2.10	\$269,434
Safety and Security Total			(2.40% of Total)	\$649,434