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UNIVERSITY OF WISCONSIN - MADISON SPORTS & RECREATION MASTER PLAN

Madison, WI

Conceptual Estimate

December 18, 2013

Prepared For:

Kahler Slater

111 West Wisconsin Avenue

Milwaukee, WI 53202

NOTES REGARDING PREPARATION OF ESTIMATE

This estimate was prepared based on the following documents provided by Kahler Slater:

1. Site Work Concept Design Pricing Package provided by Kahler Slater dated October 8, 2013.
2. NTC Concept Design Pricing Package provided by Kahler Slater dated November 11, 2013.
3. Natatorium Concept Design Pricing Package provided by Kahler Slater dated November 11, 2013.
4. SERF Concept Design Pricing Package provided by Kahler Slater dated December 4, 2013.
4. Information regarding the project was also obtained via meetings, phone conversations, and email messages that clarified the project scope.

BIDDING PROCESS - MARKET CONDITIONS

This document is based on the measurement and pricing of quantities wherever information is provided and/or reasonable assumptions for other work not covered in the drawings or specifications, as stated within this document. Unit rates have been generated from current material/labor rates, historical production data, and discussions with relevant subcontractors and material suppliers. The unit rates reflect current bid costs in the area. All unit rates relevant to subcontractor work include the subcontractors overhead and profit unless otherwise stated.

Pricing reflects probable construction costs obtainable in the Madison, Wisconsin area on the bid date. This estimate is a determination of fair market value for the construction of this project. It is not a prediction of low bid. Pricing assumes competitive bidding for every portion of the construction work for all subcontractors with a minimum of 3 bidders for all items of subcontracted work and a with a minimum of 3 bidders for a general contractor. Experience indicates that a fewer number of bidders may result in higher bids, conversely an increased number of bidders may result in more competitive bids.

Since The Concord Group has no control over the cost of labor, material, equipment, or over the contractor's method of determining prices, or over the competitive bidding or market conditions at the time of bid, this statement of probable construction cost is based on industry practice, professional experience and qualifications, and represents The Concord Group's best judgment as professional construction cost consultants familiar with the construction industry. However, The Concord Group cannot and does not guarantee that the proposals, bids, or the construction cost will not vary from opinions of probable cost prepared by them.

ASSUMED CONSTRUCTION PARAMETERS

The pricing is based on the following project parameters:

1. A construction start date of March 2017 and duration of 6 months for the Far West Fields.
2. A construction start date of March 2016 and duration of 4 months for the Near West Fields.
3. A construction start date of March 2021 and duration of 4 months for the Near East Fields.
4. A construction start date of March 2017 and duration of 12 months for the Nielson Tennis Center.
5. A construction start date of March 2019 and duration of 24 months for the Natatorium.
6. A construction start date of March 2017 and duration of 18 months for the SERF Addition.
7. The contracts will be competitively bid to multiple contractors as separate projects.
8. All contractors will be required to pay prevailing wages.
9. There are no phasing requirements.
10. The contractors will have full access to the site during normal working hours
11. Estimate includes pricing as of December 2013.

EXCLUSIONS

The following are excluded from the cost of this estimate:

1. Professional Design Fees
2. Testing Fees
3. Owner Contingencies/Scope Changes
4. Construction Contingency
5. Design Contingency
6. Premium Time / Restrictions on Contractor Working Hours
7. Cost Escalation
8. Finance and Legal Charges
9. Environmental Abatement Costs
10. Contaminated Soil Removal
11. Temporary Facilities
12. Loose Furniture
13. Equipment (Owner Furnished/Installed)
14. Artwork
15. Non-fixed Audio/Visual Equipment
16. Telephone / Data Equipment
17. Intercom System
18. Audio Visual Equipment & Wiring
19. Public Address Equipment & Wiring
20. Lightning Protection System
21. Boilers - Hot Water or Steam
22. Chillers
23. Replacement of Existing Roadways (Utility Patching Included)
24. Soil Retention (Assumes Cut Back Excavation)
25. Deep Foundations
26. Window Treatment
27. Work to Southeast Soccer Field at UBay Fields
28. Signage

COST SUMMARY

**BUILDING
 TOTAL**

FAR WEST FIELDS (UBAY)			\$12,052,307
NEAR WEST FIELDS			\$4,279,521
NEAR EAST FIELDS			\$3,064,294
NIELSEN TENNIS CENTER			\$10,132,088
NATATORIUM			\$81,381,863
SERF ADDITION			\$48,280,441

TOTAL ESTIMATED CONSTRUCTION COSTS			\$159,190,514
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COST BREAK OUT

NATORIUM	385,000	\$175.46	\$67,551,300
KINESIOLOGY	85,900	\$161.01	\$13,830,562

COST SUMMARY		BUILDING TOTAL	
A	SUBSTRUCTURE		
A100	FOUNDATIONS		\$0
A200	BASEMENTS		\$0
B	SHELL		
B100	SUPERSTRUCTURE		\$0
B200	EXTERIOR ENCLOSURE		\$0
B300	ROOFING		\$0
C	INTERIORS		
C100	INTERIOR CONSTRUCTION		\$0
C200	STAIRS		\$0
C300	INTERIOR FINISHES		\$0
D	SERVICES		
D100	CONVEYING		\$0
D200	PLUMBING		\$0
D300	HVAC		\$0
D400	FIRE PROTECTION		\$0
D500	ELECTRICAL		\$0
E	EQUIPMENT & FURNISHINGS		
E100	EQUIPMENT		\$0
E200	FURNISHINGS		\$0
F	SPECIAL CONSTRUCTION & DEMOLITION		
F100	SPECIAL CONSTRUCTION		\$0
F200	SELECTIVE BUILDING DEMOLITION		\$0
G	SITWORK		
G100	SITE PREPARATION		\$1,842,086
G200	SITE IMPROVEMENTS		\$6,317,253
G300	CIVIL & MECHANICAL UTILITIES		\$1,750,799
G400	SITE ELECTRICAL UTILITIES		\$1,128,795
G900	OTHER SITE CONSTRUCTION		\$0
Z100	GENERAL REQUIREMENTS		\$0
SUBTOTAL			\$11,038,933
Z202	ESCALATION TO MID-POINT OF CONSTRUCTION	EXCLUDED	BUDGETED ELSEWHERE
Z100	GENERAL CONDITIONS/BOND/INSURANCE	6.0%	\$662,336
Z106	CONTRACTOR'S FEES	3.0%	\$351,038
Z201	DESIGN CONTINGENCY	EXCLUDED	BUDGETED ELSEWHERE
TOTAL ESTIMATED BID			\$12,052,307

COST SUMMARY		BUILDING TOTAL	
A	SUBSTRUCTURE		
A100	FOUNDATIONS		\$0
A200	BASEMENTS		\$0
B	SHELL		
B100	SUPERSTRUCTURE		\$0
B200	EXTERIOR ENCLOSURE		\$0
B300	ROOFING		\$0
C	INTERIORS		
C100	INTERIOR CONSTRUCTION		\$0
C200	STAIRS		\$0
C300	INTERIOR FINISHES		\$0
D	SERVICES		
D100	CONVEYING		\$0
D200	PLUMBING		\$0
D300	HVAC		\$0
D400	FIRE PROTECTION		\$0
D500	ELECTRICAL		\$0
E	EQUIPMENT & FURNISHINGS		
E100	EQUIPMENT		\$0
E200	FURNISHINGS		\$0
F	SPECIAL CONSTRUCTION & DEMOLITION		
F100	SPECIAL CONSTRUCTION		\$0
F200	SELECTIVE BUILDING DEMOLITION		\$0
G	SITWORK		
G100	SITE PREPARATION		\$520,943
G200	SITE IMPROVEMENTS		\$2,707,408
G300	CIVIL & MECHANICAL UTILITIES		\$452,575
G400	SITE ELECTRICAL UTILITIES		\$201,077
G900	OTHER SITE CONSTRUCTION		\$0
Z100	GENERAL REQUIREMENTS		\$0
SUBTOTAL			\$3,882,003
Z202	ESCALATION TO MID-POINT OF CONSTRUCTION	EXCLUDED	BUDGETED ELSEWHERE
Z100	GENERAL CONDITIONS/BOND/INSURANCE	6.0%	\$232,920
Z106	CONTRACTOR'S FEES	4.0%	\$164,597
Z201	DESIGN CONTINGENCY	EXCLUDED	BUDGETED ELSEWHERE
TOTAL ESTIMATED BID			\$4,279,521

COST SUMMARY		BUILDING TOTAL	
A	SUBSTRUCTURE		
A100	FOUNDATIONS		\$0
A200	BASEMENTS		\$0
B	SHELL		
B100	SUPERSTRUCTURE		\$0
B200	EXTERIOR ENCLOSURE		\$0
B300	ROOFING		\$0
C	INTERIORS		
C100	INTERIOR CONSTRUCTION		\$0
C200	STAIRS		\$0
C300	INTERIOR FINISHES		\$0
D	SERVICES		
D100	CONVEYING		\$0
D200	PLUMBING		\$0
D300	HVAC		\$0
D400	FIRE PROTECTION		\$0
D500	ELECTRICAL		\$0
E	EQUIPMENT & FURNISHINGS		
E100	EQUIPMENT		\$0
E200	FURNISHINGS		\$0
F	SPECIAL CONSTRUCTION & DEMOLITION		
F100	SPECIAL CONSTRUCTION		\$0
F200	SELECTIVE BUILDING DEMOLITION		\$0
G	SITWORK		
G100	SITE PREPARATION		\$384,478
G200	SITE IMPROVEMENTS		\$1,910,037
G300	CIVIL & MECHANICAL UTILITIES		\$310,017
G400	SITE ELECTRICAL UTILITIES		\$175,126
G900	OTHER SITE CONSTRUCTION		\$0
Z100	GENERAL REQUIREMENTS		\$0
SUBTOTAL			\$2,779,657
Z202	ESCALATION TO MID-POINT OF CONSTRUCTION	EXCLUDED	BUDGETED ELSEWHERE
Z100	GENERAL CONDITIONS/BOND/INSURANCE	6.0%	\$166,779
Z106	CONTRACTOR'S FEES	4.0%	\$117,857
Z201	DESIGN CONTINGENCY	EXCLUDED	BUDGETED ELSEWHERE
TOTAL ESTIMATED BID			\$3,064,294



University Of Wisconsin - Madison
 Sports & Recreation Master Plan
 Nielsen Tennis Center

Conceptual Estimate
 12/18/2013

COST SUMMARY		55,337 GSF	\$/SF	BUILDING TOTAL
A	SUBSTRUCTURE			
A100	FOUNDATIONS		\$6.89	\$381,054
A200	BASEMENTS		\$0.00	\$0
B	SHELL			
B100	SUPERSTRUCTURE		\$21.45	\$1,187,108
B200	EXTERIOR ENCLOSURE		\$13.84	\$765,685
B300	ROOFING		\$9.70	\$536,637
C	INTERIORS			
C100	INTERIOR CONSTRUCTION		\$10.98	\$607,613
C200	STAIRS		\$3.53	\$195,207
C300	INTERIOR FINISHES		\$18.82	\$1,041,648
D	SERVICES			
D100	CONVEYING		\$0.89	\$49,048
D200	PLUMBING		\$11.35	\$627,938
D300	HVAC		\$38.67	\$2,139,913
D400	FIRE PROTECTION		\$2.18	\$120,495
D500	ELECTRICAL		\$14.45	\$799,345
E	EQUIPMENT & FURNISHINGS			
E100	EQUIPMENT		\$0.00	\$0
E200	FURNISHINGS		\$0.90	\$50,000
F	SPECIAL CONSTRUCTION & DEMOLITION			
F100	SPECIAL CONSTRUCTION		\$0.00	\$0
F200	SELECTIVE BUILDING DEMOLITION		\$0.00	\$0
G	SITWORK			
G100	SITE PREPARATION		\$3.80	\$210,238
G200	SITE IMPROVEMENTS		\$3.04	\$168,383
G300	CIVIL & MECHANICAL UTILITIES		\$2.61	\$144,442
G400	SITE ELECTRICAL UTILITIES		\$0.00	\$0
G900	OTHER SITE CONSTRUCTION		\$0.00	\$0
Z100	GENERAL REQUIREMENTS		\$0.00	\$0
SUBTOTAL			\$163.09	\$9,024,751
Z202	ESCALATION TO MID-POINT OF CONSTRUCTION	EXCLUDED		BUDGETED ELSEWHERE
Z100	GENERAL CONDITIONS/BOND/INSURANCE	9.0%	\$14.68	\$812,228
Z106	CONTRACTOR'S FEES	3.0%	\$5.33	\$295,109
Z201	DESIGN CONTINGENCY	EXCLUDED		BUDGETED ELSEWHERE
TOTAL ESTIMATED BID			\$183.10	\$10,132,088

COST SUMMARY		470,900	GSF	\$/SF	BUILDING TOTAL
A	SUBSTRUCTURE				
A100	FOUNDATIONS			\$5.26	\$2,475,849
A200	BASEMENTS			\$1.95	\$920,080
B	SHELL				
B100	SUPERSTRUCTURE			\$32.57	\$15,339,445
B200	EXTERIOR ENCLOSURE			\$10.62	\$5,002,903
B300	ROOFING			\$9.01	\$4,244,095
C	INTERIORS				
C100	INTERIOR CONSTRUCTION			\$8.61	\$4,054,437
C200	STAIRS			\$3.16	\$1,487,090
C300	INTERIOR FINISHES			\$16.87	\$7,943,286
D	SERVICES				
D100	CONVEYING			\$1.95	\$919,691
D200	PLUMBING			\$5.75	\$2,707,675
D300	HVAC			\$31.70	\$14,927,530
D400	FIRE PROTECTION			\$2.45	\$1,152,104
D500	ELECTRICAL			\$15.24	\$7,175,829
E	EQUIPMENT & FURNISHINGS				
E100	EQUIPMENT			\$3.37	\$1,585,392
E200	FURNISHINGS			\$0.32	\$150,000
F	SPECIAL CONSTRUCTION & DEMOLITION				
F100	SPECIAL CONSTRUCTION			\$5.58	\$2,627,000
F200	SELECTIVE BUILDING DEMOLITION			\$0.00	\$0
G	SITWORK				
G100	SITE PREPARATION			\$3.55	\$1,670,478
G200	SITE IMPROVEMENTS			\$0.78	\$369,210
G300	CIVIL & MECHANICAL UTILITIES			\$0.94	\$444,442
G400	SITE ELECTRICAL UTILITIES			\$0.16	\$73,410
G900	OTHER SITE CONSTRUCTION			\$0.00	\$0
Z100	GENERAL REQUIREMENTS			\$0.00	\$0
SUBTOTAL				\$159.84	\$75,269,943
Z202	ESCALATION TO MID-POINT OF CONSTRUCTION	EXCLUDED			BUDGETED ELSEWHERE
Z100	GENERAL CONDITIONS/BOND/INSURANCE	6.0%		\$9.59	\$4,516,197
Z106	CONTRACTOR'S FEES	2.0%		\$3.39	\$1,595,723
Z201	DESIGN CONTINGENCY	EXCLUDED			BUDGETED ELSEWHERE
TOTAL ESTIMATED BID				\$172.82	\$81,381,863
COST BREAK OUT					
	NATORIUM	385,000		\$175.46	\$67,551,300
	KINESIOLOGY	85,900		\$161.01	\$13,830,562

COST SUMMARY		253,000	GSF	\$/SF	BUILDING TOTAL
A	SUBSTRUCTURE				
A100	FOUNDATIONS			\$3.46	\$875,799
A200	BASEMENTS			\$2.95	\$745,592
B	SHELL				
B100	SUPERSTRUCTURE			\$35.76	\$9,047,779
B200	EXTERIOR ENCLOSURE			\$21.12	\$5,344,217
B300	ROOFING			\$5.34	\$1,352,111
C	INTERIORS				
C100	INTERIOR CONSTRUCTION			\$8.12	\$2,054,782
C200	STAIRS			\$4.49	\$1,135,931
C300	INTERIOR FINISHES			\$18.16	\$4,594,879
D	SERVICES				
D100	CONVEYING			\$3.02	\$763,107
D200	PLUMBING			\$5.75	\$1,454,750
D300	HVAC			\$33.25	\$8,412,250
D400	FIRE PROTECTION			\$2.45	\$618,990
D500	ELECTRICAL			\$17.10	\$4,327,275
E	EQUIPMENT & FURNISHINGS				
E100	EQUIPMENT			\$3.56	\$900,900
E200	FURNISHINGS			\$0.59	\$150,000
F	SPECIAL CONSTRUCTION & DEMOLITION				
F100	SPECIAL CONSTRUCTION			\$2.38	\$603,250
F200	SELECTIVE BUILDING DEMOLITION			\$0.00	\$0
G	SITWORK				
G100	SITE PREPARATION			\$4.44	\$1,123,643
G200	SITE IMPROVEMENTS			\$0.59	\$148,268
G300	CIVIL & MECHANICAL UTILITIES			\$1.16	\$294,442
G400	SITE ELECTRICAL UTILITIES			\$0.29	\$73,410
G900	OTHER SITE CONSTRUCTION			\$0.00	\$0
Z100	GENERAL REQUIREMENTS			\$0.00	\$0
SUBTOTAL				\$174.00	\$44,021,373
Z202	ESCALATION TO MID-POINT OF CONSTRUCTION	EXCLUDED			BUDGETED ELSEWHERE
Z100	GENERAL CONDITIONS/BOND/INSURANCE	7.0%		\$12.18	\$3,081,496
Z106	CONTRACTOR'S FEES	2.5%		\$4.65	\$1,177,572
Z201	DESIGN CONTINGENCY	EXCLUDED			BUDGETED ELSEWHERE
TOTAL ESTIMATED BID				\$190.83	\$48,280,441



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
FAR WEST FIELDS (UBAY)				
G100000 SITE PREPARATION				
G101000 Site Clearing				
Clearing and grubbing	38	ACRE	4,109.43	156,158
Excavate for field turf	43,889	CUYD	3.56	156,456
Haul off excavated material	43,889	CUYD	30.98	1,359,563
Erosion Control - Allowance	38	ACRE	1,409.60	53,565
SUBTOTAL: Site Clearing				\$1,725,741
G102000 Site Demolition & Relocations				
Remove existing parking lot	40,000	SQFT	1.25	50,116
SUBTOTAL: Site Demolition & Relocations				\$50,116
G103000 Site Earthwork				
Grading	38	ACRE	1,742.86	66,229
SUBTOTAL: Site Earthwork				\$66,229
TOTAL: SITE PREPARATION				\$1,842,086

G200000 SITE IMPROVEMENTS

G202000 Parking Lots

Porous asphalt pavement	63,000	SQFT	3.11	195,829
Stormwater detention fill at porous asphalt	4,667	CUYD	27.74	129,454
Stripe parking space, standard	170	EACH	23.33	3,967
Stripe parking space, ADA	10	EACH	195.19	1,952
Concrete apron	1,200	SQFT	5.64	6,767
CA-6 base, 6" thk at concrete apron	22	CUYD	38.00	836
Concrete curb & gutter	2,000	LNFT	20.16	40,316
Concrete curb & gutter, depressed	80	LNFT	17.58	1,406
SUBTOTAL: Parking Lots				\$380,526

G203000 Pedestrian Paving

Concrete pedestrian walk spine, 5" PC concrete w/6"x6" W4xW4 WWF	12,000	SQFT	4.60	55,152
CA-6 base, 6" thk at concrete pedestrian walk spine	222	CUYD	38.00	8,436
Concrete pavement, 8" thk, moped parking - qty allowance	1,000	SQFT	5.79	5,793
CA-6 base, 6" thk at moped parking	19	CUYD	28.90	549
Crushed limestone pathway, 3" thk	47,500	SQFT	2.65	125,885
CA-6 base, 6" thk at limestone pathway	880	CUYD	34.90	30,714
SUBTOTAL: Pedestrian Paving				\$226,529

G204000 Site Development

FieldTurf Classic system	395,000	SQFT	4.97	1,963,427
Clean imported fill due to unsuitable soils at field turf	21,945	CUYD	20.99	460,634
Stormwater detention fill at field turf	21,945	CUYD	27.74	608,713
Filter fabric	395,000	SQFT	0.46	179,883
Pressure treated 2 x 4 lumber nailer board fastened to the inside face of the barrier curb	2,835	LNFT	1.37	3,895
Concrete barrier curb around perimeter of FieldTurf	2,835	LNFT	11.35	32,167
Chainlink fence at baseball field, 6'-0" high	1,400	LNFT	33.38	46,727



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
Backstop at baseball field	1	EACH	8,837.65	8,838
Chainlink fence at softball fields, 6'-0" high	2,500	LNFT	33.38	83,441
Backstop at softball field	2	EACH	5,022.72	10,045
Ornamental fence, 6'-0" high	2,850	LNFT	107.83	307,314
Ornamental fence gate, 4'-0" x 6'-0" high	8	EACH	642.21	5,138
Ornamental gate, (2) 12'-0" x 6'-0" high	2	EACH	1,834.41	3,669
Benches	20	EACH	1,439.35	28,787
Bike racks	20	EACH	553.61	11,072
Rugby field, natural turf, 90,000 SF	2	EACH	40,616.64	81,233
Baseball field, natural turf, 135,000 SF	1	EACH	70,706.40	70,706
Softball field, natural turf, 184,000 SF	2	EACH	41,066.50	82,133
Masonry dugouts at baseball field	2	EACH	35,261.40	70,523
Basketball courts, 5,750 SF	2	EACH	38,229.60	76,459
Volleyball courts, sand, 3,750 SF	2	EACH	22,985.65	45,971
Batting/Pitching cages, set of two	1	LSUM	7,211.00	7,211
Decorative gateway/access point - allowance	2	EACH	50,000.00	100,000
North shelter house, two story, 40'x40' footprint, concessions, toilets, press box	1	LSUM	320,000.00	320,000
South shelter house, one story, 4000 SF footprint, concessions, lockers, storage	1	LSUM	300,000.00	300,000
Multisport Scoreboard, 4'-0" x 8'-0" including foundations	6	EACH	9,675.31	58,052
Exterior signage - Allowance	1	LSUM	7,500.00	7,500
Portable soccer goals	12	EACH	3,048.24	36,579
Soccer field backstop netting with posts, 20' high	3,000	LNFT	75.71	227,122
Trash receptacle	25	EACH	270.96	6,774
Portable bleachers	24	EACH	6,578.91	157,894
SUBTOTAL: Site Development				\$5,401,907
G205000 Landscaping				
Landscaping - allowance	1	LSUM	200,000.00	200,000
Seeding at remainder of site	15	ACRE	7,219.40	108,291
SUBTOTAL: Landscaping				\$308,291
TOTAL: SITE IMPROVEMENTS				\$6,317,253
G300000 CIVIL & MECHANICAL UTILITIES				
G301000 Water Supply				
Double check valve backflow preventer, 3/4"	2	EACH	282.19	564
Domestic water service pipe and fittings, type K copper, 1" - Allowance	600	LNFT	12.27	7,363
Domestic water service pipe and fittings, type K copper, 3/4" - Allowance	400	LNFT	8.11	3,243
Valve vault	2	EACH	7,204.57	14,409
Drinking fountain, bi-level, frostproof	2	EACH	6,184.32	12,369
Irrigation system	303,000	SQFT	1.37	414,534
Trench excavation, pipe bedding, and backfill (<=18" pipe)	1,000	LNFT	34.93	34,928
Line flushing, cleaning, and testing	1	LSUM	454.80	455
Coordinate and perform water main taps	2	EACH	5,164.40	10,329
SUBTOTAL: Water Supply				\$498,194
G302000 Sanitary Sewer				
ESVCP sanitary sewer pipe, 4"	300	LNFT	8.37	2,512
Trench excavation, pipe bedding, and backfill (<=18" pipe)	750	LNFT	34.93	26,196



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
			SUBTOTAL: Sanitary Sewer	\$28,708
G303000 Storm Sewer				
Turf collector pipe and fittings, buried HDPE, 18", geotextile wrap	1,600	LNFT	68.40	109,434
PVC storm sewer pipe, SDR 35, 10"	400	LNFT	12.49	4,997
Flat drain pipe, 1" x 12" at fields	881,000	SQFT	0.90	792,019
Catch basins	2	EACH	1,952.75	3,906
Area drains	2	EACH	406.85	814
Trench excavation, pipe bedding, and backfill (<=18" pipe)	2,600	LNFT	24.13	62,728
Miscellaneous storm water piping & structures to connect fields to existing system	1	LSUM	250,000.00	250,000
			SUBTOTAL: Storm Sewer	\$1,223,898
TOTAL: CIVIL & MECHANICAL UTILITIES				\$1,750,799
G400000 SITE ELECTRICAL UTILITIES				
G401000 Electrical Distribution				
New electrical service and power panel for lighting	1	EACH	22,074.94	22,075
Junction Box and hardwired connection - scoreboards	6	EACH	559.10	3,355
Branch wiring installation 600 V, to scoreboards	6	EACH	3,584.24	21,505
			SUBTOTAL: Electrical Distribution	\$46,935
G402000 Site Lighting				
New athletic field light pole and associated fixtures	30	EACH	22,604.60	678,138
New athletic field light pole and associated fixtures with front and back fixtures	2	EACH	34,341.00	68,682
New parking/pedestrian pole mounted fixtures	15	EACH	3,011.89	45,178
Underground Feeder installation 600 V 4W , including PVC conduit and wire, 60A	6,000	LNFT	26.47	158,820
Hand holes, with cover, 2' x 2' x 3' deep, excavation, backfill	50	EACH	619.40	30,970
			SUBTOTAL: Site Lighting	\$981,788
G403000 Communications & Security				
PA/Sound infrastructures - Allowance	2	EACH	50,036.04	100,072
			SUBTOTAL: Communications & Security	\$100,072
TOTAL: SITE ELECTRICAL UTILITIES				\$1,128,795
TOTAL: FAR WEST FIELDS (UBAY)				\$11,038,933



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
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NEAR WEST FIELDS

G100000 SITE PREPARATION

G101000 Site Clearing

Clearing and grubbing	6	ACRE	4,109.43	24,657
Excavate for field turf	13,820	CUYD	3.56	49,266
Haul off excavated material	13,820	CUYD	30.98	428,106
Erosion Control - Allowance	6	ACRE	1,409.60	8,458

SUBTOTAL: Site Clearing \$510,486

G103000 Site Earthwork

Grading	6	ACRE	1,742.86	10,457
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SUBTOTAL: Site Earthwork \$10,457

TOTAL: SITE PREPARATION \$520,943

G200000 SITE IMPROVEMENTS

G204000 Site Development

FieldTurf Classic system	248,765	SQFT	4.97	1,236,536
Stormwater detention fill at field turf	13,820	CUYD	27.74	383,341
Filter fabric	248,765	SQFT	0.46	113,288
Pressure treated 2 x 4 lumber nailer board fastened to the inside face of the barrier curb	2,152	LNFT	1.37	2,957
Concrete barrier curb around perimeter of FieldTurf	2,152	LNFT	11.35	24,417
Ornamental fence, 6'-0" high	2,160	LNFT	107.83	232,911
Ornamental fence gate, 4'-0" x 6'-0" high	2	EACH	642.21	1,284
Ornamental gate, (2) 12'-0" x 6'-0" high	1	EACH	1,834.41	1,834
Brick pilaster at ornamental fence, assume 36"x36"x7'-0" high at 20' OC including stone cap and foundations	108	EACH	4,406.32	475,883
Bike racks	8	EACH	553.61	4,429
Decorative gateway/access point - allowance	2	EACH	50,000.00	100,000
Multisport Scoreboard, 4'-0" x 8'-0" including foundations	5	EACH	9,675.31	48,377
Exterior signage - Allowance	1	LSUM	2,500.00	2,500
Combination soccer/football goals including footings	5	EACH	8,701.17	43,506
Trash receptacle	12	EACH	270.96	3,252
Portable bleachers	5	EACH	6,578.91	32,895

SUBTOTAL: Site Development \$2,707,408

TOTAL: SITE IMPROVEMENTS \$2,707,408

G300000 CIVIL & MECHANICAL UTILITIES

G301000 Water Supply

Double check valve backflow preventer, 3/4"	2	EACH	282.19	564
Domestic water service pipe and fittings, type K copper, 3/4" - Allowance	100	LNFT	8.11	811
Valve vault	2	EACH	7,204.57	14,409
Drinking fountain, bi-level, frostproof	2	EACH	6,184.32	12,369
Trench excavation, pipe bedding, and backfill (<=18" pipe)	100	LNFT	34.93	3,493
Line flushing, cleaning, and testing	1	LSUM	454.80	455

SUBTOTAL: Water Supply \$32,100



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
G302000 Sanitary Sewer				
ESVCP sanitary sewer pipe, 4"	300	LNFT	8.37	2,512
Trench excavation, pipe bedding, and backfill (<=18" pipe)	300	LNFT	34.93	10,478
SUBTOTAL: Sanitary Sewer				\$12,990
G303000 Storm Sewer				
Turf collector pipe and fittings, buried HDPE, 18", geotextile wrap	1,900	LNFT	68.40	129,953
Flat drain pipe, 1" x 12" at fields	248,765	SQFT	0.90	223,640
Area drains	2	EACH	406.85	814
Trench excavation, pipe bedding, and backfill (<=18" pipe)	2,200	LNFT	24.13	53,077
SUBTOTAL: Storm Sewer				\$407,484
TOTAL: CIVIL & MECHANICAL UTILITIES				\$452,575
G400000 SITE ELECTRICAL UTILITIES				
G401000 Electrical Distribution				
Connection to existing power panel	1	EACH	1,578.80	1,579
Junction Box and hardwired connection - scoreboards	5	EACH	559.10	2,796
Branch wiring installation 600 V, to scoreboards	5	EACH	2,047.00	10,235
SUBTOTAL: Electrical Distribution				\$14,609
G402000 Site Lighting				
Add light fixtures to existing poles	8	EACH	6,736.40	53,891
New athletic field light pole and associated fixtures	3	EACH	22,604.60	67,814
Relocate athletic field light pole and add light fixtures	2	EACH	8,604.60	17,209
Underground Feeder installation 600 V 4W , including PVC conduit and wire, 60A	500	LNFT	26.47	13,235
hand holes, with cover, 2' x 2' x 3' deep, excavation, backfill	4	EACH	619.40	2,478
SUBTOTAL: Site Lighting				\$154,627
G403000 Communications & Security				
PA/Sound infrastructures - Allowance	1	EACH	31,841.11	31,841
SUBTOTAL: Communications & Security				\$31,841
TOTAL: SITE ELECTRICAL UTILITIES				\$201,077
TOTAL: NEAR WEST FIELDS				\$3,882,003



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
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NEAR EAST FIELDS

G100000 SITE PREPARATION

G101000 Site Clearing

Clearing and grubbing	3	ACRE	4,109.43	12,328
Excavate for field turf	10,500	CUYD	3.56	37,430
Haul off excavated material	10,500	CUYD	30.98	325,262
Erosion Control - Allowance	3	ACRE	1,409.60	4,229

SUBTOTAL: Site Clearing \$379,249

G103000 Site Earthwork

Grading	3	ACRE	1,742.86	5,229
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SUBTOTAL: Site Earthwork \$5,229

TOTAL: SITE PREPARATION \$384,478

G200000 SITE IMPROVEMENTS

G204000 Site Development

FieldTurf Classic system	141,650	SQFT	4.97	704,100
Stormwater detention fill at field turf	10,500	CUYD	27.74	291,250
Filter fabric	141,650	SQFT	0.46	64,507
Pressure treated 2 x 4 lumber nailer board fastened to the inside face of the barrier curb	1,650	LNFT	1.37	2,267
Concrete barrier curb around perimeter of FieldTurf	1,650	LNFT	11.35	18,721
Ornamental fence, 6'-0" high	1,680	LNFT	107.83	181,153
Ornamental fence gate, 4'-0" x 6'-0" high	2	EACH	642.21	1,284
Ornamental gate, (2) 12'-0" x 6'-0" high	1	EACH	1,834.41	1,834
Brick pilaster at ornamental fence, assume 36"x36"x7'-0" high at 20' OC including stone cap and foundations	84	EACH	4,406.32	370,131
Bike racks	8	EACH	553.61	4,429
Decorative gateway/access point - allowance	2	EACH	50,000.00	100,000
Multisport Scoreboard, 4'-0" x 8'-0" including foundations	4	EACH	9,675.31	38,701
Exterior signage - Allowance	1	LSUM	2,500.00	2,500
Portable soccer goals	10	EACH	3,048.24	30,482
Soccer field backstop netting with posts, 20' high	920	LNFT	75.71	69,651
Trash receptacle	10	EACH	270.96	2,710
Portable bleachers	4	EACH	6,578.91	26,316

SUBTOTAL: Site Development \$1,910,037

TOTAL: SITE IMPROVEMENTS \$1,910,037

G300000 CIVIL & MECHANICAL UTILITIES

G301000 Water Supply

Double check valve backflow preventer, 3/4"	2	EACH	282.19	564
Domestic water service pipe and fittings, type K copper, 3/4" - Allowance	100	LNFT	8.11	811
Valve vault	2	EACH	7,204.57	14,409
Drinking fountain, bi-level, frostproof	2	EACH	6,184.32	12,369
Trench excavation, pipe bedding, and backfill (<=18" pipe)	100	LNFT	34.93	3,493
Line flushing, cleaning, and testing	1	LSUM	454.80	455



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
			SUBTOTAL: Water Supply	\$32,100
G302000 Sanitary Sewer				
ESVCP sanitary sewer pipe, 4"	300	LNFT	8.37	2,512
Trench excavation, pipe bedding, and backfill (<=18" pipe)	300	LNFT	34.93	10,478
			SUBTOTAL: Sanitary Sewer	\$12,990
G303000 Storm Sewer				
Turf collector pipe and fittings, buried HDPE, 18", geotextile wrap	1,400	LNFT	68.40	95,755
Flat drain pipe, 1" x 12" at fields	141,650	SQFT	0.90	127,343
Area drains	2	EACH	406.85	814
Trench excavation, pipe bedding, and backfill (<=18" pipe)	1,700	LNFT	24.13	41,014
			SUBTOTAL: Storm Sewer	\$264,926
TOTAL: CIVIL & MECHANICAL UTILITIES				\$310,017
G400000 SITE ELECTRICAL UTILITIES				
G401000 Electrical Distribution				
Connection to existing power panel	1	EACH	1,578.80	1,579
Junction Box and hardwired connection - scoreboards	4	EACH	559.10	2,236
Branch wiring installation 600 V, to scoreboards	4	EACH	2,047.00	8,188
			SUBTOTAL: Electrical Distribution	\$12,003
G402000 Site Lighting				
New athletic field light pole and associated fixtures	4	EACH	22,604.60	90,418
Relocate athletic field light pole and add light fixtures	2	EACH	8,604.60	17,209
Underground Feeder installation 600 V 4W , including PVC conduit and wire, 60A hand holes, with cover, 2' x 2' x 3' deep, excavation, backfill	800	LNFT	26.47	21,176
	4	EACH	619.40	2,478
			SUBTOTAL: Site Lighting	\$131,281
G403000 Communications & Security				
PA/Sound infrastructures - Allowance	1	EACH	31,841.11	31,841
			SUBTOTAL: Communications & Security	\$31,841
TOTAL: SITE ELECTRICAL UTILITIES				\$175,126
TOTAL: NEAR EAST FIELDS				\$2,779,657



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
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NIELSEN TENNIS CENTER

A10000 FOUNDATIONS

A101000 Standard Foundations

Excavate for foundations	2,000	CUYD	10.19	20,370
Backfill with excavated material	1,497	CUYD	7.37	11,028
Haul off excavated material	503	CUYD	30.98	15,582
Miscellaneous excavation & hand digging	1	LSUM	3,638.40	3,638
Formwork for strip footings	2,080	SQFT	5.90	12,279
Formwork for isolated column footings	2,120	SQFT	6.68	14,160
Formwork for foundation walls	8,305	SQFT	5.68	47,168
Reinforcement in strip footings, avg 65 lbs/cy	5	TONS	2,230.27	11,151
Reinforcement in isolated column footings, avg 80 lbs/cy	7	TONS	2,230.27	15,612
Reinforcement in foundation walls, avg 115 lbs/cy	11	TONS	2,358.29	25,941
Concrete in strip footings, 4,000 psi	154	CUYD	131.72	20,285
Concrete in isolated column footings, 4,000 psi	157	CUYD	138.06	21,676
Concrete in foundation walls, 4,000 psi	192	CUYD	136.25	26,160

SUBTOTAL: Standard Foundations \$245,050

A102000 Special Foundations

Dewatering - Casual	1	LSUM	8,814.84	8,815
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SUBTOTAL: Special Foundations \$8,815

A103000 Slab on Grade

Concrete slab on grade, 5" thk, with W6x6-2.9x2.9	29,000	SQFT	3.85	111,667
CA-6 base, 6" thk at slab on grade	537	CUYD	28.90	15,521

SUBTOTAL: Slab on Grade \$127,189

TOTAL: FOUNDATIONS \$381,054

B100000 SUPERSTRUCTURE

B101000 Floors

LTWT Concrete on metal deck, 3-1/4" thk, with W6x6-1.4x1.4	22,326	SQFT	3.88	86,670
Structural steel beams, joists & columns, floor, allow 11 lbs/sf	22,326	SQFT	14.88	332,182
Composite metal floor deck, galvanized, 2" thk, 18 ga	22,326	SQFT	2.73	60,992
Miscellaneous angles, channels, lintels, etc.	49,250	SQFT	1.29	63,552
Fireproof steel structure	44,000	SQFT	2.82	124,164

SUBTOTAL: Floors \$667,560

B102000 Roofs

LTWT Concrete on metal roof deck, 3-1/4" thk, with W6x6-1.4x1.4	19,642	SQFT	3.88	76,250
Structural steel beams, joists & columns, green roof, allow 11 lbs/sf	19,642	SQFT	14.88	292,247
Structural steel beams, joists & columns, roof, allow 7 lbs/sf	8,418	SQFT	9.44	79,491
Composite metal floor deck, at green roof, galvanized, 2" thk, 18 ga	19,642	SQFT	2.73	53,660
Metal roof deck, galvanized, 1-1/2" thk, 18 ga	8,418	SQFT	2.13	17,899

SUBTOTAL: Roofs \$519,548

TOTAL: SUPERSTRUCTURE \$1,187,108

B200000 EXTERIOR ENCLOSURE



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
B201000 Exterior Walls				
Brick facade, modular	5,675	SQFT	23.51	133,412
Structural metal studs, 6" thk	7,075	SQFT	4.91	34,753
5/8" exterior gypsum sheathing	7,075	SQFT	1.22	8,653
6" batt insulation	7,075	SQFT	1.51	10,704
Fluid applied air barrier	7,075	SQFT	2.64	18,711
Metal panel system	1,425	SQFT	32.61	46,474
Exterior storefront	2,125	SQFT	42.38	90,067
Exterior curtainwall	4,950	SQFT	74.04	366,502
Exterior soffit	550	SQFT	8.13	4,470
Gypsum board at interior face of exterior facade	7,075	SQFT	2.34	16,527
SUBTOTAL: Exterior Walls				\$730,274
B203000 Exterior Doors				
Exterior doors - allowance	14	EACH	2,529.33	35,411
SUBTOTAL: Exterior Doors				\$35,411
TOTAL: EXTERIOR ENCLOSURE				\$765,685
B300000 ROOFING				
B301000 Roof Coverings				
Flat roof system including flashings	8,418	SQFT	10.81	90,972
Fluid applied green roof, extensive, include membrane, drainage, soil & plantings, no trees, allow 70% of total	19,642	SQFT	22.69	445,665
SUBTOTAL: Roof Coverings				\$536,637
TOTAL: ROOFING				\$536,637
C100000 INTERIOR CONSTRUCTION				
C101000 Partitions				
Miscellaneous wood blocking & rough carpentry	49,250	SQFT	0.78	38,297
Miscellaneous caulking & sealants	49,250	SQFT	0.12	5,688
Interior gypsum board partition	36,750	SQFT	6.46	237,434
SUBTOTAL: Partitions				\$281,420
C102000 Interior Doors				
Interior doors - allowance	60	EACH	1,597.00	95,820
Fire shutters - allowance	2	EACH	27,939.96	55,880
SUBTOTAL: Interior Doors				\$151,700
C103000 Fittings				
Toilet specialties - Allowance	1	LSUM	40,000.00	40,000
Marker/Tackboards - Allowance	1	LSUM	30,000.00	30,000
Locker bench	300	LNFT	38.93	11,679
Locker, kit, 12"x12, 5 high	50	EACH	558.94	27,947
Locker, wood, standard	91	EACH	483.94	44,038
Locker, wood, athletic	32	EACH	650.90	20,829
SUBTOTAL: Fittings				\$174,493
TOTAL: INTERIOR CONSTRUCTION				\$607,613



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
C200000 STAIRS				
C201000 Stair Construction				
Concrete filled metal pan stair, including railings, 2 flights and 1/2 landing	2	EACH	24,238.00	48,476
Monumental stair, including railings, 2 flights and 1/4 landing	1	EACH	42,797.50	42,798
SUBTOTAL: Stair Construction				\$91,274
C202000 Stair Finishes				
Glazed decorative metal guardrail	190	LNFT	547.02	103,933
SUBTOTAL: Stair Finishes				\$103,933
TOTAL: STAIRS				\$195,207

C300000 INTERIOR FINISHES				
C301000 Wall Finishes				
Ceramic wall tile	6,250	SQFT	11.48	71,738
Wood veneer wall panels	5,000	SQFT	20.29	101,462
Paint walls	62,000	SQFT	0.75	46,543
Mirrors at walls - Quantity Allowance	5,000	SQFT	21.77	108,834
SUBTOTAL: Wall Finishes				\$328,576
C302000 Floor Finishes				
Ceramic tile floor	4,500	SQFT	10.64	47,886
Ceramic tile base	1,250	LNFT	15.32	19,147
Rubber sheet flooring	6,250	SQFT	9.28	58,018
Vinyl base, 6" high	5,500	LNFT	1.93	10,597
Concrete sealer	2,500	SQFT	1.13	2,816
Carpet tile	30,750	SQFT	4.13	126,942
Finish Upgrade to existing lounge & corridor - Allowance	3,623	SQFT	22.18	80,350
Finish Upgrade to existing court viewing area - Allowance	3,419	SQFT	16.33	55,843
SUBTOTAL: Floor Finishes				\$401,597
C303000 Ceiling Finishes				
Gypsum board ceiling, painted	5,750	SQFT	6.94	39,926
Gypsum board soffit, painted	2,500	SQFT	9.94	24,849
ACT system, 2'-0" x 2'-0"	35,750	SQFT	3.94	140,991
Wood veneer panel ceiling	5,000	SQFT	20.63	103,167
Paint exposed structure	2,500	SQFT	1.02	2,543
SUBTOTAL: Ceiling Finishes				\$311,475
TOTAL: INTERIOR FINISHES				\$1,041,648

D100000 CONVEYING				
D101000 Elevators & Lifts				
Hydraulic passenger elevator, 2 stop	1	EACH	49,048.00	49,048
SUBTOTAL: Elevators & Lifts				\$49,048
TOTAL: CONVEYING				\$49,048

D200000 PLUMBING				
D201000 Plumbing Fixtures				



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
Plumbing fixtures including rough-in	49,250	SQFT	2.90	142,825
SUBTOTAL: Plumbing Fixtures				\$142,825
D202000 Domestic Water Distribution				
Plumbing equipment and specialties including water heaters, drains and cleanouts	49,250	SQFT	1.35	66,488
Water, waste, vent, and storm drainage piping and insulation	49,250	SQFT	8.50	418,625
SUBTOTAL: Domestic Water Distribution				\$485,113
TOTAL: PLUMBING				\$627,938

D300000 HVAC

D301000 Energy Supply

Heating and cooling plant - central, including heat exchangers, pumps, valves, and specialties	49,250	SQFT	1.85	91,113
Pipe, fittings, supports, valves, and insulation - steam, condensate, HW, CHW	49,250	SQFT	15.00	738,750
SUBTOTAL: Energy Supply				\$829,863

D304000 HVAC Distribution

Ventilation and exhaust systems including AHU's, exhaust fans, ductwork, diffusers, dampers	49,250	SQFT	22.00	1,083,500
SUBTOTAL: HVAC Distribution				\$1,083,500

D305000 Terminal & Packaged Units

Heating terminals including cabinet, unit heaters, radiators	49,250	SQFT	0.75	36,938
SUBTOTAL: Terminal & Packaged Units				\$36,938

D306000 HVAC Instrumentation & Controls

DDC controls	49,250	SQFT	3.00	147,750
SUBTOTAL: HVAC Instrumentation & Controls				\$147,750

D307000 Testing, Adjusting & Balancing

Testing, balancing, and commissioning	49,250	SQFT	0.85	41,863
SUBTOTAL: Testing, Adjusting & Balancing				\$41,863

TOTAL: HVAC				\$2,139,913
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D400000 FIRE PROTECTION

D403000 Fire Protection Specialties

Wet sprinkler system - \$/SF	49,250	SQFT	2.45	120,495
SUBTOTAL: Fire Protection Specialties				\$120,495

TOTAL: FIRE PROTECTION				\$120,495
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D500000 ELECTRICAL

D501000 Electrical Service & Distribution

Service and distribution - Branch panelboards and associated feeders	49,250	SQFT	1.12	55,249
Branch Power - Miscellaneous receptacles and electrical equipment hook up	49,250	SQFT	1.72	84,907
Branch Power - Branch wiring installation 600 V, including 3/4" EMT conduit and THWN wire, 20A	49,250	SQFT	1.16	57,105
Motors connection, disconnect switches and associated feeders	1	LSUM	12,500.00	12,500
SUBTOTAL: Electrical Service & Distribution				\$209,761

D502000 Lighting & Branch Wiring



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
Lighting System - Light fixtures including installation and hook up	49,250	SQFT	5.21	256,568
Lighting System - dual level, dimmed switching, occupancy sensors, time-based lighting control for exterior lighting	49,250	SQFT	0.76	37,400
Lighting System - Branch wiring installation 600 V, including 3/4" EMT conduit and THWN wire, 20A	49,250	SQFT	1.07	52,875
SUBTOTAL: Lighting & Branch Wiring				\$346,843
D503000 Communication & Security				
Fire alarm System, complete	49,500	SQFT	1.69	83,412
Telecommunication/Data & Television System, complete	49,250	SQFT	1.79	88,212
Audio/visual System, rough-in only	49,250	SQFT	0.99	48,748
Intrusion Detection System, - selected areas	1	LSUM	22,369.22	22,369
SUBTOTAL: Communication & Security				\$242,741
TOTAL: ELECTRICAL				\$799,345
E200000 FURNISHINGS				
E201000 Fixed Furnishings				
Miscellaneous Millwork/Casework - Allowance	1	LSUM	50,000.00	50,000
SUBTOTAL: Fixed Furnishings				\$50,000
TOTAL: FURNISHINGS				\$50,000
G100000 SITE PREPARATION				
G101000 Site Clearing				
Site Demolition - Allowance	62,000	SQFT	0.83	51,603
SUBTOTAL: Site Clearing				\$51,603
G102000 Site Demolition & Relocations				
Demlsh portion existing NTC bulding including foundations, connection to remain and be protected	23,000	SQFT	6.90	158,636
SUBTOTAL: Site Demolition & Relocations				\$158,636
TOTAL: SITE PREPARATION				\$210,238
G200000 SITE IMPROVEMENTS				
G204000 Site Development				
Site Development - Allowance	33,000	SQFT	5.10	168,383
SUBTOTAL: Site Development				\$168,383
TOTAL: SITE IMPROVEMENTS				\$168,383
G300000 CIVIL & MECHANICAL UTILITIES				
G301000 Water Supply				
Replace existing water and sewer utilities with new	1	LSUM	44,441.60	44,442
SUBTOTAL: Water Supply				\$44,442
G304000 Heating Distribution				
Replace existing steam, condensate, and CHW utilities w/new	1	LSUM	100,000.00	100,000
SUBTOTAL: Heating Distribution				\$100,000
TOTAL: CIVIL & MECHANICAL UTILITIES				\$144,442



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
TOTAL: NIELSEN TENNIS CENTER				\$9,024,751



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
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NATATORIUM

A10000 FOUNDATIONS

A101000 Standard Foundations

Move existing fill at basement level to required grades	102,523	SQFT	0.23	23,714
Excavate for foundations	6,840	CUYD	10.19	69,667
Backfill with excavated material	7,640	CUYD	7.37	56,279
Haul off excavated material	7,232	CUYD	30.98	224,023
Miscellaneous excavation & hand digging	1	LSUM	6,822.00	6,822
Formwork for strip footings	5,585	SQFT	5.90	32,970
Formwork for isolated column footings	8,700	SQFT	6.68	58,109
Formwork for piers	8,100	SQFT	7.78	63,052
Formwork for foundation walls	10,760	SQFT	5.68	61,111
Reinforcement in strip footings, avg 65 lbs/cy	15	TONS	2,230.27	33,454
Reinforcement in isolated column footings, avg 80 lbs/cy	154	TONS	2,230.27	343,461
Reinforcement in piers, avg 125 lbs/cy	12	TONS	2,559.48	30,714
Reinforcement in foundation walls, avg 115 lbs/cy	15	TONS	2,358.29	35,374
Concrete in strip footings, 4,000 psi	468	CUYD	131.72	61,645
Concrete in isolated column footings, 4,000 psi	806	CUYD	138.06	111,279
Concrete in piers, 4,000 psi	187	CUYD	163.44	30,563
Concrete in foundation walls, 4,000 psi	249	CUYD	136.25	33,926

SUBTOTAL: Standard Foundations \$1,276,164

A102000 Special Foundations

Dewatering - Casual	1	LSUM	88,148.40	88,148
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SUBTOTAL: Special Foundations \$88,148

A103000 Slab on Grade

Concrete slab on grade, 5" thk, with W6x6-2.9x2.9	50,000	SQFT	3.85	192,530
Concrete slab on grade, 5" thk, with W6x6-2.9x2.9 and zypex additive	102,500	SQFT	4.55	466,478
Concrete mud slab at basement level	102,500	SQFT	2.04	209,356
CA-6 base, 6" thk at slab on grade	2,824	CUYD	28.90	81,623
Drainage layer at basement slab, 6" thk	1,898	CUYD	28.90	54,859
Sound & Vibration Control - Allowance	1	LSUM	25,000.00	25,000
Basement slab waterproofing	21,675	SQFT	3.77	81,691

SUBTOTAL: Slab on Grade \$1,111,537

TOTAL: FOUNDATIONS \$2,475,849

A20000 BASEMENTS

A201000 Basement Excavation

Excavate for basement	8,032	CUYD	5.94	47,721
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SUBTOTAL: Basement Excavation \$47,721

A202000 Basement Walls

Formwork for basement walls	43,350	SQFT	8.57	371,605
Reinforcement in basement walls, avg 135 lbs/cy	68	TONS	2,548.64	173,307
Concrete in basement walls, 4,000 psi including Zypex Additive	1,004	CUYD	194.08	194,859
Basement wall waterproofing	21,675	SQFT	3.96	85,922



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
Foundation insulation, 2" thk	21,675	SQFT	2.15	46,666
SUBTOTAL: Basement Walls				\$872,360
TOTAL: BASEMENTS				\$920,080

B100000 SUPERSTRUCTURE

B101000 Floors

LTWT Concrete on metal deck, 3-1/4" thk, with W6x6-1.4x1.4	394,271	SQFT	3.88	1,530,560
Structural steel beams, trusses, joists & columns, floor, allow 15 lbs/sf	394,271	SQFT	20.83	8,214,360
Composite metal floor deck, galvanized, 2" thk, 18 ga	394,271	SQFT	2.73	1,077,109
Miscellaneous angles, channels, lintels, etc.	470,900	SQFT	1.29	607,649
Fireproof steel structure	265,000	SQFT	2.82	747,804
Intumescent painting - Allowance	1	LSUM	100,000.00	100,000
SUBTOTAL: Floors				\$12,277,482

B102000 Roofs

LTWT Concrete on metal roof deck, 3-1/4" thk, with W6x6-1.4x1.4	116,564	SQFT	3.88	452,501
Structural steel beams, joists & columns, green roof, allow 11 lbs/sf	116,564	SQFT	14.88	1,734,321
Structural steel beams, joists & columns, roof, allow 7 lbs/sf	49,956	SQFT	9.44	471,735
Composite metal floor deck, at green roof, galvanized, 2" thk, 18 ga	116,564	SQFT	2.73	318,441
Metal roof deck, galvanized, 1-1/2" thk, 18 ga	39,959	SQFT	2.13	84,965
SUBTOTAL: Roofs				\$3,061,963

TOTAL: SUPERSTRUCTURE				\$15,339,445
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B200000 EXTERIOR ENCLOSURE

B201000 Exterior Walls

Brick facade, modular	35,525	SQFT	23.51	835,147
Terra cotta veneer panels	21,700	SQFT	47.86	1,038,571
Structural metal studs, 6" thk	67,575	SQFT	4.91	331,935
5/8" exterior gypsum sheathing	67,575	SQFT	1.22	82,644
6" batt insulation	67,575	SQFT	1.51	102,234
Fluid applied air barrier	67,575	SQFT	2.64	178,716
Metal panel system	10,350	SQFT	32.61	337,551
Exterior storefront	26,175	SQFT	42.38	1,109,420
Translucent wall panels	2,175	SQFT	43.21	93,985
Exterior curtainwall	7,650	SQFT	74.04	566,413
Exterior soffit	14,500	SQFT	8.13	117,846
Gypsum board at interior face of exterior facade	67,575	SQFT	2.34	157,855
SUBTOTAL: Exterior Walls				\$4,952,316

B203000 Exterior Doors

Exterior doors - allowance	20	EACH	2,529.33	50,587
SUBTOTAL: Exterior Doors				\$50,587

TOTAL: EXTERIOR ENCLOSURE				\$5,002,903
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B300000 ROOFING

B301000 Roof Coverings

Flat roof system including flashings	39,956	SQFT	10.81	431,797
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DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
Fluid applied green roof, extensive, include membrane, drainage, soil & plantings, no trees, allow 70% of total	116,564	SQFT	22.69	2,644,767
			SUBTOTAL: Roof Coverings	\$3,076,564
B302000 Roof Openings				
Skylight - Quantity Allowance	10,000	SQFT	66.75	667,531
Photovoltaics/LEED Elements- Allowance	1	LSUM	500,000.00	500,000
			SUBTOTAL: Roof Openings	\$1,167,531
TOTAL: ROOFING				\$4,244,095

C100000 INTERIOR CONSTRUCTION

C101000 Partitions

8" CMU partition	50,000	SQFT	13.31	665,390
Miscellaneous wood blocking & rough carpentry	470,900	SQFT	0.78	366,172
Miscellaneous caulking & sealants	470,900	SQFT	0.12	54,389
Interior storefront	18,000	SQFT	37.19	669,355
Interior gypsum board partition	240,000	SQFT	6.46	1,550,592
			SUBTOTAL: Partitions	\$3,305,898

C102000 Interior Doors

Interior doors - allowance	150	EACH	1,597.00	239,550
			SUBTOTAL: Interior Doors	\$239,550

C103000 Fittings

Toilet specialties - Allowance	1	LSUM	150,000.00	150,000
Marker/Tackboards - Allowance	1	LSUM	75,000.00	75,000
Locker bench	475	LNFT	38.93	18,492
Locker, plastic, one tier	500	EACH	308.94	154,468
Locker, plastic, two tier	250	EACH	348.94	87,234
Locker, plastic, athletic	50	EACH	475.90	23,795
			SUBTOTAL: Fittings	\$508,989

TOTAL: INTERIOR CONSTRUCTION				\$4,054,437
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C200000 STAIRS

C201000 Stair Construction

Concrete filled metal pan stair, including railings, 2 flights and 1/2 landing	22	EACH	24,238.00	533,236
Concrete filled metal pan stair, including railings, 2 flights and 1/4 landing	1	EACH	24,238.00	24,238
Monumental stair, including railings, 2 flights and 1/4 landing	6	EACH	42,797.50	256,785
			SUBTOTAL: Stair Construction	\$814,259

C202000 Stair Finishes

Glazed decorative metal guardrail	1,230	LNFT	547.02	672,831
			SUBTOTAL: Stair Finishes	\$672,831

TOTAL: STAIRS				\$1,487,090
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C300000 INTERIOR FINISHES

C301000 Wall Finishes

Ceramic wall tile	12,500	SQFT	11.48	143,475
Wood veneer wall panels	35,000	SQFT	20.29	710,231



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
Paint walls	450,000	SQFT	0.75	337,815
Mirrors at walls - Quantity Allowance	30,000	SQFT	21.77	653,001
Channel Glass at walls - Quantity Allowance	7,500	SQFT	59.47	446,051
SUBTOTAL: Wall Finishes				\$2,290,572
C302000 Floor Finishes				
Ceramic tile floor	28,250	SQFT	10.64	300,617
Ceramic tile base	2,250	LNFT	15.32	34,465
Terrazzo flooring	14,500	SQFT	25.81	374,216
Gym wood floor	88,250	SQFT	10.97	968,226
Rubber sheet flooring	7,750	SQFT	9.28	71,942
Athletic flooring	18,000	SQFT	11.58	208,370
Track surface	18,250	SQFT	10.58	193,014
Vinyl base, 6" high	29,000	LNFT	1.93	55,874
Concrete sealer	37,250	SQFT	1.13	41,951
Synthetic turf surface	32,750	SQFT	4.54	148,646
Carpet tile	178,250	SQFT	4.13	735,852
SUBTOTAL: Floor Finishes				\$3,133,171
C303000 Ceiling Finishes				
Gypsum board ceiling, painted	14,000	SQFT	6.94	97,210
Gypsum board soffit, painted	10,000	SQFT	9.94	99,395
ACT system, 2'-0" x 2'-0"	219,000	SQFT	3.94	863,692
Wood veneer panel ceiling	60,000	SQFT	20.63	1,238,004
Paint exposed structure	217,500	SQFT	1.02	221,241
SUBTOTAL: Ceiling Finishes				\$2,519,543
TOTAL: INTERIOR FINISHES				\$7,943,286
D100000 CONVEYING				
D101000 Elevators & Lifts				
Electric traction elevator, freight, 4 stop	1	EACH	205,409.92	205,410
Electric traction elevator, passenger, 4 stop	1	EACH	157,909.92	157,910
Electric traction elevator, passenger, 5 stop	3	EACH	185,456.96	556,371
SUBTOTAL: Elevators & Lifts				\$919,691
TOTAL: CONVEYING				\$919,691
D200000 PLUMBING				
D201000 Plumbing Fixtures				
Plumbing fixtures including rough-in	470,900	SQFT	1.25	588,625
SUBTOTAL: Plumbing Fixtures				\$588,625
D202000 Domestic Water Distribution				
Plumbing equipment and specialties including water heaters, drains and cleanouts	470,900	SQFT	0.50	235,450
Water, waste, vent, and storm drainage piping and insulation	470,900	SQFT	4.00	1,883,600
SUBTOTAL: Domestic Water Distribution				\$2,119,050
TOTAL: PLUMBING				\$2,707,675
D300000 HVAC				



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
D301000 Energy Supply				
Heating and cooling plant - central, including heat exchangers, pumps, valves, and specialties	470,900	SQFT	0.75	353,175
Pipe, fittings, supports, valves, and insulation - steam, condensate, HW, CHW	470,900	SQFT	10.00	4,709,000
SUBTOTAL: Energy Supply				\$5,062,175
D304000 HVAC Distribution				
Ventilation and exhaust systems including AHU's, exhaust fans, ductwork, diffusers, dampers	470,900	SQFT	17.80	8,382,020
SUBTOTAL: HVAC Distribution				\$8,382,020
D305000 Terminal & Packaged Units				
Heating terminals including cabinet, unit heaters, radiators	470,900	SQFT	0.25	117,725
SUBTOTAL: Terminal & Packaged Units				\$117,725
D306000 HVAC Instrumentation & Controls				
DDC controls	470,900	SQFT	2.50	1,177,250
SUBTOTAL: HVAC Instrumentation & Controls				\$1,177,250
D307000 Testing, Adjusting & Balancing				
Testing, balancing, and commissioning	470,900	SQFT	0.40	188,360
SUBTOTAL: Testing, Adjusting & Balancing				\$188,360
TOTAL: HVAC				\$14,927,530
D400000 FIRE PROTECTION				
D403000 Fire Protection Specialties				
Wet sprinkler system - \$/SF	470,900	SQFT	2.45	1,152,104
SUBTOTAL: Fire Protection Specialties				\$1,152,104
TOTAL: FIRE PROTECTION				\$1,152,104
D500000 ELECTRICAL				
D501000 Electrical Service & Distribution				
Grounding System per code	1	LSUM	100,201.89	100,202
Service and distribution - Branch panelboards and associated feeders	470,900	SQFT	2.47	1,162,699
Branch Power - Miscellaneous receptacles and electrical equipment hook up	470,900	SQFT	0.86	405,916
Branch Power - Branch wiring installation 600 V, including 3/4" EMT conduit and THWN wire, 20A	470,900	SQFT	0.99	465,108
Motors connection, disconnect switches and associated feeders	1	LSUM	115,625.00	115,625
SUBTOTAL: Electrical Service & Distribution				\$2,249,550
D502000 Lighting & Branch Wiring				
Lighting System - Light fixtures including installation and hook up	470,900	SQFT	5.70	2,685,778
Lighting System - dual level, dimmed switching, occupancy sensors,	470,900	SQFT	0.76	357,601
Lighting System - Branch wiring installation 600 V, including 3/4" EMT conduit and THWN wire, 20A	470,900	SQFT	1.07	505,558
SUBTOTAL: Lighting & Branch Wiring				\$3,548,938
D503000 Communication & Security				
Fire alarm System, complete	470,900	SQFT	1.34	633,172
Telecommunication/Data & Television System, complete	470,900	SQFT	0.90	421,691
Audio/visual System, rough-in only	470,900	SQFT	0.49	233,001



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
Intrusion Detection System, - selected areas	1	LSUM	89,476.86	89,477
SUBTOTAL: Communication & Security				\$1,377,341

TOTAL: ELECTRICAL \$7,175,829

E100000 EQUIPMENT

E109000 Other Equipment

Cafe equipment -Allowance	1	LSUM	10,000.00	10,000
Demonstration kitchen equipment - Allowance	1	LSUM	15,000.00	15,000
Basketball goals	48	EACH	7,409.60	355,661
Escutcheons for volleyball and badmitton standards - Allowance	24	EACH	500.00	12,000
Gym divider curtains	45,000	SQFT	17.17	772,731
Scoreboards - Allowance	1	LSUM	75,000.00	75,000
Wall mats - Allowance	1	LSUM	75,000.00	75,000
Raquetball courts - Allowance	6	EACH	45,000.00	270,000
SUBTOTAL: Other Equipment				\$1,585,392

TOTAL: EQUIPMENT \$1,585,392

E200000 FURNISHINGS

E201000 Fixed Furnishings

Miscellaneous Millwork/Casework - Allowance	1	LSUM	150,000.00	150,000
SUBTOTAL: Fixed Furnishings				\$150,000

TOTAL: FURNISHINGS \$150,000

F100000 SPECIAL CONSTRUCTION

F104000 Special Facilities

Swimming pool - Allowance	1	LSUM	1,200,000.00	1,200,000
Ice rink - Allowance	1	LSUM	1,000,000.00	1,000,000
Ice rink dasher rods	570	LNFT	350.00	199,500
MAC court dasher rods	650	LNFT	350.00	227,500
SUBTOTAL: Special Facilities				\$2,627,000

TOTAL: SPECIAL CONSTRUCTION \$2,627,000

G100000 SITE PREPARATION

G101000 Site Clearing

Site Demolition - Allowance	286,000	SQFT	0.83	238,038
SUBTOTAL: Site Clearing				\$238,038

G102000 Site Demolition & Relocations

Demolish existing natatorium bulding including foundations	450,000	SQFT	3.18	1,432,440
SUBTOTAL: Site Demolition & Relocations				\$1,432,440

TOTAL: SITE PREPARATION \$1,670,478

G200000 SITE IMPROVEMENTS

G204000 Site Development

Site Development - Allowance	134,000	SQFT	2.76	369,210
SUBTOTAL: Site Development				\$369,210



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
TOTAL: SITE IMPROVEMENTS				\$369,210
G300000 CIVIL & MECHANICAL UTILITIES				
G301000 Water Supply				
Replace existing water and sewer utilities with new	1	LSUM	44,441.60	44,442
SUBTOTAL: Water Supply				\$44,442
G304000 Heating Distribution				
Replace existing steam, condensate, and CHW utilities w/new	1	LSUM	400,000.00	400,000
SUBTOTAL: Heating Distribution				\$400,000
TOTAL: CIVIL & MECHANICAL UTILITIES				\$444,442
G400000 SITE ELECTRICAL UTILITIES				
G401000 Electrical Distribution				
Utility company provisions and coordination - Main service , Power	1	LSUM	36,705.00	36,705
Utility company provisions and coordination - Main service , Tele/data	1	LSUM	36,705.00	36,705
SUBTOTAL: Electrical Distribution				\$73,410
TOTAL: SITE ELECTRICAL UTILITIES				\$73,410
TOTAL: NATATORIUM				\$75,269,943



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
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SERF ADDITION

A10000 FOUNDATIONS

A101000 Standard Foundations

Move existing fill at basement level to required grades	53,453	SQFT	0.46	24,717
Excavate for foundations	3,580	CUYD	10.19	36,463
Backfill with excavated material	4,847	CUYD	7.37	35,705
Haul off excavated material	4,426	CUYD	30.98	137,103
Miscellaneous excavation & hand digging	1	LSUM	27,288.00	27,288
Formwork for strip footings	2,960	SQFT	5.90	17,474
Formwork for isolated column footings	4,080	SQFT	6.68	27,251
Formwork for piers	7,650	SQFT	7.78	59,549
Formwork for foundation walls	3,375	SQFT	5.68	19,168
Reinforcement in strip footings, avg 65 lbs/cy	9	TONS	2,230.27	20,072
Reinforcement in isolated column footings, avg 80 lbs/cy	15	TONS	2,230.27	33,454
Reinforcement in piers, avg 125 lbs/cy	11	TONS	2,559.48	28,154
Reinforcement in foundation walls, avg 115 lbs/cy	5	TONS	2,358.29	11,791
Concrete in strip footings, 4,000 psi	262	CUYD	131.72	34,510
Concrete in isolated column footings, 4,000 psi	378	CUYD	138.06	52,188
Concrete in piers, 4,000 psi	177	CUYD	163.44	28,929
Concrete in foundation walls, 4,000 psi	78	CUYD	136.25	10,628

SUBTOTAL: Standard Foundations \$604,445

A102000 Special Foundations

Dewatering - Casual	1	LSUM	35,259.36	35,259
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SUBTOTAL: Special Foundations \$35,259

A103000 Slab on Grade

Concrete slab on grade, 5" thk, with W6x6-2.9x2.9	53,830	SQFT	3.85	207,278
CA-6 base, 6" thk at slab on grade	997	CUYD	28.90	28,817

SUBTOTAL: Slab on Grade \$236,094

TOTAL: FOUNDATIONS \$875,799

A20000 BASEMENTS

A201000 Basement Excavation

Excavate for basement	5,693	CUYD	5.94	33,824
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SUBTOTAL: Basement Excavation \$33,824

A202000 Basement Walls

Formwork for basement walls	37,400	SQFT	8.57	320,600
Reinforcement in basement walls, avg 135 lbs/cy	58	TONS	2,548.64	147,821
Concrete in basement walls, 4,000 psi	865	CUYD	149.08	128,957
Basement wall waterproofing	18,700	SQFT	3.96	74,129
Foundation insulation, 2" thk	18,700	SQFT	2.15	40,261

SUBTOTAL: Basement Walls \$711,768

TOTAL: BASEMENTS \$745,592

B10000 SUPERSTRUCTURE



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
B101000 Floors				
LTWT Concrete on metal deck, 3-1/4" thk, with W6x6-1.4x1.4	254,730	SQFT	3.88	988,862
Structural steel beams, trusses, joists & columns, floor, allow 15 lbs/sf	254,730	SQFT	20.83	5,307,121
Composite metal floor deck, galvanized, 2" thk, 18 ga	254,730	SQFT	2.73	695,897
Miscellaneous angles, channels, lintels, etc.	253,000	SQFT	1.29	326,471
Fireproof steel structure	131,250	SQFT	2.82	370,374
Intumescent painting - Allowance	1	LSUM	50,000.00	50,000
SUBTOTAL: Floors				\$7,738,726
B102000 Roofs				
LTWT Concrete on metal roof deck, 3-1/4" thk, with W6x6-1.4x1.4	49,490	SQFT	3.88	192,120
Structural steel beams, joists & columns, green roof, allow 11 lbs/sf	49,490	SQFT	14.88	736,347
Structural steel beams, joists & columns, roof, allow 7 lbs/sf	21,210	SQFT	9.44	200,286
Composite metal floor deck, at green roof, galvanized, 2" thk, 18 ga	49,490	SQFT	2.73	135,202
Metal roof deck, galvanized, 1-1/2" thk, 18 ga	21,210	SQFT	2.13	45,099
SUBTOTAL: Roofs				\$1,309,054
TOTAL: SUPERSTRUCTURE				\$9,047,779
B200000 EXTERIOR ENCLOSURE				
B201000 Exterior Walls				
Brick facade, modular	40,925	SQFT	23.51	962,094
Structural metal studs, 6" thk	46,025	SQFT	4.91	226,079
5/8" exterior gypsum sheathing	46,025	SQFT	1.22	56,289
6" batt insulation	46,025	SQFT	1.51	69,631
Fluid applied air barrier	46,025	SQFT	2.64	121,722
Metal panel system	5,100	SQFT	32.61	166,329
Translucent wall panels	18,600	SQFT	43.21	803,736
Exterior curtainwall	37,550	SQFT	74.04	2,780,236
Gypsum board at interior face of exterior facade	46,025	SQFT	2.34	107,514
SUBTOTAL: Exterior Walls				\$5,293,630
B203000 Exterior Doors				
Exterior doors - allowance	20	EACH	2,529.33	50,587
SUBTOTAL: Exterior Doors				\$50,587
TOTAL: EXTERIOR ENCLOSURE				\$5,344,217
B300000 ROOFING				
B301000 Roof Coverings				
Flat roof system including flashings	21,210	SQFT	10.81	229,212
Fluid applied green roof, extensive, include membrane, drainage, soil & plantings, no trees, allow 70% of total	49,490	SQFT	22.69	1,122,898
SUBTOTAL: Roof Coverings				\$1,352,111
TOTAL: ROOFING				\$1,352,111
C100000 INTERIOR CONSTRUCTION				
C101000 Partitions				
Miscellaneous wood blocking & rough carpentry	253,000	SQFT	0.78	196,733
Miscellaneous caulking & sealants	253,000	SQFT	0.12	29,222



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
Interior storefront	9,000	SQFT	37.19	334,678
Interior gypsum board partition	150,000	SQFT	6.46	969,120
SUBTOTAL: Partitions				\$1,529,752
C102000 Interior Doors				
Interior doors - allowance	90	EACH	1,597.00	143,730
SUBTOTAL: Interior Doors				\$143,730
C103000 Fittings				
Toilet specialties - Allowance	1	LSUM	75,000.00	75,000
Marker/Tackboards - Allowance	1	LSUM	50,000.00	50,000
Locker bench	375	LNFT	38.93	14,599
Locker, plastic, one tier	500	EACH	308.94	154,468
Locker, plastic, two tier	250	EACH	348.94	87,234
SUBTOTAL: Fittings				\$381,301
TOTAL: INTERIOR CONSTRUCTION				\$2,054,782
C200000 STAIRS				
C201000 Stair Construction				
Concrete filled metal pan stair, including railings, 2 flights and 1/2 landing	18	EACH	24,238.00	436,284
Concrete filled metal pan stair, including railings, 2 flights and 1/4 landing	1	EACH	24,238.00	24,238
Monumental stair, including railings, 2 flights and 1/2 landing	1	EACH	42,797.50	42,798
Monumental stair, including railings, 2 flights and 1/4 landing	2	EACH	42,797.50	85,595
SUBTOTAL: Stair Construction				\$588,915
C202000 Stair Finishes				
Glazed decorative metal guardrail	1,000	LNFT	547.02	547,017
SUBTOTAL: Stair Finishes				\$547,017
TOTAL: STAIRS				\$1,135,931
C300000 INTERIOR FINISHES				
C301000 Wall Finishes				
Ceramic wall tile	8,500	SQFT	11.48	97,563
Wood veneer wall panels	15,550	SQFT	20.29	315,545
Paint walls	231,500	SQFT	0.75	173,787
Channel Glass at walls - Quantity Allowance	3,500	SQFT	59.47	208,157
Mirrors at walls - Quantity Allowance	15,000	SQFT	21.77	326,501
SUBTOTAL: Wall Finishes				\$1,121,553
C302000 Floor Finishes				
Ceramic tile floor	26,750	SQFT	10.64	284,655
Ceramic tile base	2,000	LNFT	15.32	30,635
Terrazzo flooring	16,750	SQFT	25.81	432,284
Gym wood floor	62,000	SQFT	10.97	680,227
Rubber sheet flooring	2,500	SQFT	9.28	23,207
Athletic flooring	6,000	SQFT	11.58	69,457
Track surface	11,750	SQFT	10.58	124,269
Vinyl base, 6" high	17,500	LNFT	1.93	33,717
Concrete sealer	24,000	SQFT	1.13	27,029



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
Carpet tile	78,000	SQFT	4.13	322,000
SUBTOTAL: Floor Finishes				\$2,027,479
C303000 Ceiling Finishes				
Gypsum board ceiling, painted	20,500	SQFT	6.94	142,344
Gypsum board soffit, painted	12,000	SQFT	9.94	119,274
ACT system, 2'-0" x 2'-0"	107,000	SQFT	3.94	421,987
Wood veneer panel ceiling	32,000	SQFT	20.63	660,269
Paint exposed structure	100,250	SQFT	1.02	101,974
SUBTOTAL: Ceiling Finishes				\$1,445,848
TOTAL: INTERIOR FINISHES				\$4,594,879
D100000 CONVEYING				
D101000 Elevators & Lifts				
Electric traction elevator, freight, 6 stop	1	EACH	260,504.00	260,504
Electric traction elevator, passenger, 6 stop	1	EACH	213,004.00	213,004
Electric traction elevator, passenger, 7 stop	1	EACH	240,551.04	240,551
Hydraulic passenger elevator, 2 stop	1	EACH	49,048.00	49,048
SUBTOTAL: Elevators & Lifts				\$763,107
TOTAL: CONVEYING				\$763,107
D200000 PLUMBING				
D201000 Plumbing Fixtures				
Plumbing fixtures including rough-in	253,000	SQFT	1.25	316,250
SUBTOTAL: Plumbing Fixtures				\$316,250
D202000 Domestic Water Distribution				
Plumbing equipment and specialties including water heaters, drains and cleanouts	253,000	SQFT	0.50	126,500
Water, waste, vent, and storm drainage piping and insulation	253,000	SQFT	4.00	1,012,000
SUBTOTAL: Domestic Water Distribution				\$1,138,500
TOTAL: PLUMBING				\$1,454,750
D300000 HVAC				
D301000 Energy Supply				
Heating and cooling plant - central, including heat exchangers, pumps, valves, and specialties	253,000	SQFT	1.05	265,650
Pipe, fittings, supports, valves, and insulation - steam, condensate, HW, CHW	253,000	SQFT	10.50	2,656,500
SUBTOTAL: Energy Supply				\$2,922,150
D304000 HVAC Distribution				
Ventilation and exhaust systems including AHU's, exhaust fans, ductwork, diffusers, dampers	253,000	SQFT	18.50	4,680,500
SUBTOTAL: HVAC Distribution				\$4,680,500
D305000 Terminal & Packaged Units				
Heating terminals including cabinet, unit heaters, radiators	253,000	SQFT	0.30	75,900
SUBTOTAL: Terminal & Packaged Units				\$75,900
D306000 HVAC Instrumentation & Controls				



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
DDC controls	253,000	SQFT	2.50	632,500
SUBTOTAL: HVAC Instrumentation & Controls				\$632,500
D30700C Testing, Adjusting & Balancing				
Testing, balancing, and commissioning	253,000	SQFT	0.40	101,200
SUBTOTAL: Testing, Adjusting & Balancing				\$101,200
TOTAL: HVAC				\$8,412,250
D400000 FIRE PROTECTION				
D40300C Fire Protection Specialties				
Wet sprinkler system - \$/SF	253,000	SQFT	2.45	618,990
SUBTOTAL: Fire Protection Specialties				\$618,990
TOTAL: FIRE PROTECTION				\$618,990
D500000 ELECTRICAL				
D50100C Electrical Service & Distribution				
Grounding System per code	1	LSUM	66,175.00	66,175
Service and distribution - Branch panelboards and associated feeders	253,000	SQFT	2.47	624,682
Branch Power - Miscellaneous receptacles and electrical equipment hook up	253,000	SQFT	0.86	218,086
Branch Power - Branch wiring installation 600 V, including 3/4" EMT conduit and THWN wire, 20A	253,000	SQFT	0.99	249,888
Motors connection, disconnect switches and associated feeders	1	LSUM	78,125.00	78,125
SUBTOTAL: Electrical Service & Distribution				\$1,236,956
D50200C Lighting & Branch Wiring				
Lighting System - Light fixtures including installation and hook up	253,000	SQFT	5.70	1,442,985
Lighting System - dual level, dimmed switching, occupancy sensors,	253,000	SQFT	0.76	192,128
Lighting System - Branch wiring installation 600 V, including 3/4" EMT conduit and THWN wire, 20A	253,000	SQFT	1.07	271,621
SUBTOTAL: Lighting & Branch Wiring				\$1,906,734
D50300C Communication & Security				
Fire alarm System, complete	253,000	SQFT	1.69	426,330
Telecommunication/Data & Television System, complete	253,000	SQFT	1.79	453,148
Audio/visual System, rough-in only	253,000	SQFT	0.99	250,419
Intrusion Detection System, - selected areas	1	LSUM	53,686.12	53,686
SUBTOTAL: Communication & Security				\$1,183,584
TOTAL: ELECTRICAL				\$4,327,275
E100000 EQUIPMENT				
E109000 Other Equipment				
Cafe equipment -Allowance	1	LSUM	10,000.00	10,000
Basketball goals	36	EACH	7,409.60	266,746
Escutcheons for volleyball and badminton standards - Allowance	18	EACH	500.00	9,000
Gym divider curtains	30,000	SQFT	8.17	245,154
Scoreboards - Allowance	1	LSUM	50,000.00	50,000
Wall mats - Allowance	1	LSUM	50,000.00	50,000
Raquetball courts - Allowance	6	EACH	45,000.00	270,000



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
SUBTOTAL: Other Equipment				\$900,900
TOTAL: EQUIPMENT				\$900,900
E200000 FURNISHINGS				
E201000 Fixed Furnishings				
Miscellaneous Millwork/Casework - Allowance	1	LSUM	150,000.00	150,000
SUBTOTAL: Fixed Furnishings				\$150,000
TOTAL: FURNISHINGS				\$150,000
F100000 SPECIAL CONSTRUCTION				
F104000 Special Facilities				
Swimming pool modifications - Allowance	1	LSUM	500,000.00	500,000
MAC court dasher rods	295	LNFT	350.00	103,250
SUBTOTAL: Special Facilities				\$603,250
TOTAL: SPECIAL CONSTRUCTION				\$603,250
G100000 SITE PREPARATION				
G101000 Site Clearing				
Site Demolition - Allowance	107,000	SQFT	0.83	89,056
SUBTOTAL: Site Clearing				\$89,056
G102000 Site Demolition & Relocations				
Demolish existing SERF bulding including foundations, pool to remain and be protected	265,000	SQFT	3.90	1,034,587
SUBTOTAL: Site Demolition & Relocations				\$1,034,587
TOTAL: SITE PREPARATION				\$1,123,643
G200000 SITE IMPROVEMENTS				
G204000 Site Development				
Site Development - Allowance	53,000	SQFT	2.80	148,268
SUBTOTAL: Site Development				\$148,268
TOTAL: SITE IMPROVEMENTS				\$148,268
G300000 CIVIL & MECHANICAL UTILITIES				
G301000 Water Supply				
Replace existing water and sewer utilities with new	1	LSUM	44,441.60	44,442
SUBTOTAL: Water Supply				\$44,442
G304000 Heating Distribution				
Replace existing steam, condensate, and CHW utilities w/new	1	LSUM	250,000.00	250,000
SUBTOTAL: Heating Distribution				\$250,000
TOTAL: CIVIL & MECHANICAL UTILITIES				\$294,442
G400000 SITE ELECTRICAL UTILITIES				
G401000 Electrical Distribution				
Utility company provisions and coordination - Main service , Power	1	LSUM	36,705.00	36,705
Utility company provisions and coordination - Main service , Tele/data	1	LSUM	36,705.00	36,705



DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
			SUBTOTAL: Electrical Distribution	\$73,410
TOTAL: SITE ELECTRICAL UTILITIES				\$73,410
TOTAL: SERF ADDITION				\$44,021,373