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CITY OF MADISON WARNER PARK COMMUNITY CENTER GYM ADDITION

Madison, WI

Construction Document Estimate
April 10, 2024
Rev 01

FOR REFERENCE ONLY. ALL QUANTITIES AND UNIT COSTS ARE THE RESPONSIBILITY OF BIDDERS.

Prepared For:
Engberg Anderson Architects
305 W. Washington Ave.
Madison, WI 53703

NOTES REGARDING PREPARATION OF ESTIMATE

This estimate was prepared based on the following documents provided by Engberg Anderson Architects

1. D.D. Drawings provided by Engberg Anderson Architects provided March 29, 2024
2. Design Narrative provided by Engberg Anderson Architects dated March 29, 2024
3. 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 Middleton Consulting 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 Middleton Consulting's best judgment as professional construction cost consultants familiar with the construction industry. However, Middleton Consulting 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 Summer 2024
2. A construction period of 14-16 months
3. The contract will be competitively bid to multiple contractors.
4. All contractors will be required to pay prevailing wages.
5. The contractors will have full access to the site during normal working hours
6. Estimate includes pricing as of February 2024

**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. Premium Time / Restrictions on Contractor Working Hours
6. Finance and Legal Charges
7. Environmental Abatement Costs
8. Contaminated Soil Removal
9. Temporary Facilities
10. Loose Furniture
11. Equipment (Owner Furnished/Installed)
12. Artwork

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**City Of Madison
Warner Park Community Center
Gym Addition
Summary**

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COST SUMMARY		13,100	GSF	\$/SF	BUILDING TOTAL
01000	GENERAL REQUIREMENTS			\$0.00	\$0
02000	EXISTING CONDITIONS-BUILDING DEMO			\$1.87	\$24,450
03000	CONCRETE			\$31.73	\$415,654
04000	MASONRY			\$49.36	\$646,648
05000	METALS			\$28.28	\$370,432
06000	WOODS, PLASTICS & COMPOSITES			\$2.03	\$26,645
07000	THERMAL & MOISTURE PROTECTION SYSTEM			\$37.34	\$489,167
08000	OPENINGS			\$12.85	\$168,396
09000	FINISHES-BUILDOUTS			\$27.23	\$356,762
10000	SPECIALTIES			\$2.33	\$30,577
11000	EQUIPMENT-GYM			\$14.89	\$195,044
12000	FURNISHINGS			\$0.00	\$0
13000	SPECIAL CONSTRUCTION			\$0.00	\$0
14000	CONVEYING EQUIPMENT			\$0.00	\$0
21000	FIRE SUPPRESSION			\$5.17	\$67,733
22000	PLUMBING			\$12.79	\$167,589
23000	HEATING, VENTILATING & AIR CONDITIONING			\$115.00	\$1,506,490
26000	ELECTRICAL			\$30.58	\$400,598
27000	COMMUNICATIONS			\$1.94	\$25,444
28000	ELECTRONIC SAFETY AND SECURITY			\$18.43	\$241,462
31000	EARTHWORK			\$6.81	\$89,263
32000	EXTERIOR IMPROVEMENTS			\$14.97	\$196,162
33000	UTILITIES			\$3.88	\$50,763
SUBTOTAL				\$417.50	\$5,469,279
	ESCALATION TO START OF CONSTRUCTION	1.0%		\$4.18	\$54,693
	GENERAL CONDITIONS/BOND/INSURANCE	8.0%		\$33.73	\$441,918
	CONTRACTOR'S FEES	5.0%		\$22.77	\$298,294
	DESIGN CONTINGENCY	0.0%		\$0.00	\$0
TOTAL ESTIMATED BID				\$478.18	\$6,264,184
	BPW CONTINGENCY	8.0%		\$38.25	\$501,135
TOTAL ESTIMATED BID				\$516.44	\$6,765,319
ALTERNATE #1 -HVAC					\$141,646
ALTERNATE #2- SOLAR INVERTORS					\$31,514

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**CITY OF MADISON
WARNER PARK COMMUNITY CENTER
EXPANSION**

CD Estimate
04/10/2024
01

DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
00 Base Building				
01000 GENERAL REQUIREMENTS				
Gross SF of Project-Storage and Locker Room Renovation	1,000	SQFT	0.00	0
Gross SF of Project-Storage and Pre-Function	3,600	SQFT	0.00	0
Gross SF of Project-Gymnasium Addition	9,500	SQFT	0.00	0
SUBTOTAL: GENERAL REQUIREMENTS				\$0
02100 Selective Demolition				
Remove Slat Wall	40	SQFT	1.58	63
Remove wall Pads	312	SQFT	0.63	197
Remove and Reinstall Sat Dish	1	EACH	177.23	177
Remove Wire Partition	120	SQFT	3.17	380
Remove reinforced SOG & Patch for Storm Tie in	150	SQFT	12.20	1,830
Remove masonry partition	896	SQFT	2.44	2,189
Remove drywall metal stud partition	672	SQFT	1.59	1,067
Remove acoustical ceiling system & Put Back for Mechanical Tie in	200	SQFT	1.99	397
Remove drywall ceiling, suspended	813	SQFT	3.88	3,153
Remove Terrazzo	76	SQFT	2.10	160
Remove Rubber flooring	2,041	SQFT	1.58	3,215
Remove ceramic and quarry tile, thin set	813	SQFT	1.94	1,576
Remove toilet Partitions	3	EACH	79.42	238
Remove door and frame, single	10	EACH	39.71	397
Remove and Patch Opening	200	SQFT	19.75	3,951
Miscellaneous Exterior Removals	1	EACH	2,584.60	2,585
Remove lockers	45	EACH	39.71	1,787
Remove Locker Bench	14	LNFT	15.75	221
Remove shelving	55	LNFT	15.75	866
SUBTOTAL: Selective Demolition				\$24,450
03100 Concrete Formwork				
Formwork for footings	1,624	SQFT	10.73	17,421
Formwork for frost walls	4,550	SQFT	16.83	76,587
SUBTOTAL: Concrete Formwork				\$94,008
03200 Concrete Reinforcement				
Reinforcement in footings 100lb/CUYD	9	TONS	2,805.54	26,540
Reinforcement frostwalls, avg 135 lbs/cy	8	TONS	3,272.10	25,850
SUBTOTAL: Concrete Reinforcement				\$52,390
03300 Cast in Place Concrete				
Concrete in footings	189	CUYD	188.55	35,637
Concrete in frost walls, 4,000 psi	117	CUYD	200.74	23,487
Concrete slab on grade-Storage Area	1,270	SQFT	6.37	8,087
Concrete slab on grade-Gym	10,892	SQFT	7.46	81,254
Cut and patch flooring for Plumbing in locker room	200	SQFT	20.02	4,005
Vapor Barrier	12,050	SQFT	1.24	14,959
SUBTOTAL: Cast in Place Concrete				\$167,429
03600 Precast Architectural Concrete				

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Cast in place panel architectural finish	1,965	SQFT	51.82	101,828
SUBTOTAL: Precast Architectural Concrete				\$101,828
04100 Exterior Masonry				
4" split face CMU-1, exterior	5,599	SQFT	26.27	147,108
4" split face CMU-2, exterior	1,258	SQFT	28.71	36,122
12" CMU backup at Gym and Storage_integral color	9,001	SQFT	31.87	286,905
SUBTOTAL: Exterior Masonry				\$470,135
04300 Interior Masonry				
CMU partition-4"	1,921	SQFT	22.06	42,386
CMU Infill	93	SQFT	37.46	3,483
CMU partition-12"	2,189	SQFT	29.69	64,999
CMU partition-6"	2,780	SQFT	23.61	65,644
SUBTOTAL: Interior Masonry				\$176,513
05100 Structural Steel				
Structural steel beams, W-Shapes	1	TONS	4,750.19	6,793
Structural steel channels	2	TONS	5,351.95	9,039
Structural steel angles	4	TONS	5,009.97	18,537
Structural steel girder	5	TONS	5,091.87	26,732
Structural steel columns, HSS Tubes	3	TONS	4,791.87	14,855
Steel joists, series K	2	TONS	3,623.19	8,297
Steel joists, series DLH-Long Span	25	TONS	4,145.87	101,574
Metal roof deck, galvanized, 1-1/2" thk, 18 ga	2,663	SQFT	3.80	10,110
Perforated acoustic roof deck, cellular with flat bottom profile, galvanized, 18 ga	11,793	SQFT	11.14	131,317
Light gauge steel joists, 6" deep, 24" OC	1,260	LNFT	15.96	20,108
Miscellaneous angles, channels, lintels, etc.	13,100	SQFT	1.76	23,069
SUBTOTAL: Structural Steel				\$370,432
06100 Structural Wood				
SUBTOTAL: Structural Wood				\$0
06200 Rough Carpentry				
Miscellaneous wood blocking & rough carpentry	13,100	SQFT	1.02	13,333
SUBTOTAL: Rough Carpentry				\$13,333
06300 Millwork				
Display cabinet	9	LNFT	769.63	6,927
Plywood Bench at Corridor	27	LNFT	236.50	6,385
SUBTOTAL: Millwork				\$13,312
07100 Dampproofing & Waterproofing				
Spray on Air Barrier	9,001	SQFT	3.84	34,575
2" rigid insulation	9,001	SQFT	2.18	19,615
SUBTOTAL: Dampproofing & Waterproofing				\$54,190
07400 Roofing				
EPDM roofing including insulation	10,669	SQFT	18.94	202,085
Standing seam metal roof	3,628	SQFT	28.88	104,766
Metal Fascia	1,071	SQFT	13.36	14,314
10" aluminum gutter	107	LNFT	25.96	2,778

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DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
6" aluminum gutter	44	LNFT	12.13	534
Downspouts	38	LNFT	15.38	585
SUBTOTAL: Roofing				\$325,060
07500 Roofing Specialties				
Metal Coping	21	SQFT	11.33	238
SUBTOTAL: Roofing Specialties				\$238
07600 Metal Panel Systems				
Metal siding MP-1/2/3-\$22 per sqft material allowance	2,179	SQFT	27.36	59,628
Metal Soffit and Framing	1,630	SQFT	30.71	50,051
SUBTOTAL: Metal Panel Systems				\$109,679
08200 Curtainwall & Storefront				
Exterior window wall-Curtain	506	SQFT	124.17	62,831
Exterior window wall-Storefront	637	SQFT	79.39	50,571
SUBTOTAL: Curtainwall & Storefront				\$113,402
08300 Exterior Doors, Frames, & Hardware				
HM Frame B 3'-0" x 7'-8"-Insulated	1	EACH	571.86	572
Insulated HM door-3'-0" x 7'-8"	1	EACH	406.68	407
Single aluminum glass door	1	EACH	3,288.69	3,289
SUBTOTAL: Exterior Doors, Frames, & Hardware				\$4,267
08400 Interior Doors, Frames, & Hardware				
HM Frame A 3'-0" x 7'-0"	6	EACH	406.86	2,441
HM Frame A 6'-4" x 7'-8"	4	EACH	511.38	2,046
HM Frame A 6'-4" x 7'-8"	4	EACH	406.86	1,627
HM Frame B 3'-0" x 7'-0"	1	EACH	576.38	576
HM Frame C 3'-6" x 7'-10"	1	EACH	423.76	424
HM Frame C 7'-0"x 7'-10"	3	EACH	587.97	1,764
SC wood door - A, 3'-0" x 7'-0"	8	EACH	402.15	3,217
SC wood door - A, 3'-2" x 7'-8"	8	EACH	484.78	3,878
SC wood door -B, 3'-6" x 7'-10"	7	EACH	608.42	4,259
Hardware Group 5	1	EACH	4,125.26	4,125
Hardware Group 8	1	EACH	2,058.72	2,059
Hardware Group 7	1	EACH	3,024.17	3,024
Hardware Group 11	2	EACH	899.36	1,799
Hardware Group 6	1	EACH	3,039.17	3,039
Hardware Group 9	3	EACH	1,296.24	3,889
Hardware Group 2	1	EACH	1,120.45	1,120
Hardware Group 10	1	EACH	1,297.63	1,298
Hardware Group 1	1	EACH	1,562.63	1,563
Hardware Group 3	4	EACH	1,024.36	4,097
Hardware Group 4	1	EACH	4,481.35	4,481
SUBTOTAL: Interior Doors, Frames, & Hardware				\$50,727
09100 Plaster & Gypsum Board				
Wall Type C1- Drywall on one side , 3-5/8 metal stud	722	SQFT	8.98	6,485
Wall Type H1- Drywall on existing CMU	247	SQFT	6.85	1,692
Wall Type A1	114	SQFT	14.39	1,641



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DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
Wall Type B1/B2	885	SQFT	13.54	11,984
SUBTOTAL: Plaster & Gypsum Board				\$21,802
09200 Floor Finishes				
Ceramic tile floor, 12"x12"	496	SQFT	14.68	7,283
Ceramic tile base, 6" high	196	LNFT	20.61	4,039
Terrazzo flooring	1,356	SQFT	34.17	46,329
Urethane Gym floors and Striping	9,097	SQFT	15.47	140,762
Rubber sheet flooring, 3/16" thk	2,178	SQFT	17.52	38,166
Rubber base, 4" high	1,205	LNFT	2.45	2,958
Carpet flooring-CPT1/2/3	701	SQFT	6.45	4,525
SUBTOTAL: Floor Finishes				\$244,062
09300 Wall Finishes				
Ceramic wall tile, 12"x12"	1,764	SQFT	16.49	29,086
Metal Panel Behind EWC	24	SQFT	55.37	1,329
Metal Panel Covers at Wall-DP-1-	166	SQFT	57.37	9,524
SUBTOTAL: Wall Finishes				\$39,939
09400 Ceiling Finishes				
ACT system, ACP-1-Spec?	485	SQFT	14.84	7,199
Metal pan ceiling	40	SQFT	37.69	1,507
Gypsum ceilings	824	SQFT	14.66	12,082
SUBTOTAL: Ceiling Finishes				\$20,789
09500 Acoustical Treatments				
Acoustical wall panels, AP-1	60	SQFT	46.15	2,769
Acoustical wall panels, AP-2	112	SQFT	46.15	5,169
SUBTOTAL: Acoustical Treatments				\$7,938
09600 Paints & Coatings				
Concrete sealer	1,944	SQFT	1.58	3,079
Paint plaster/drywall ceiling 3 coats	842	SQFT	1.59	1,336
Paint exposed structure	10,940	SQFT	1.63	17,817
SUBTOTAL: Paints & Coatings				\$22,232
10400 Toilet Accessories				
Toilet partition, accessible	2	EACH	1,392.18	2,784
Toilet partition, standard	3	EACH	1,053.74	3,161
Urinal screen	1	EACH	819.63	820
Toilet paper dispenser, double roll	8	EACH	107.03	856
Napkin vendor, stainless steel	1	EACH	692.18	692
Napkin disposal, stainless steel, surface mounted	7	EACH	118.05	826
Baby diaper changing station	1	EACH	1,038.82	1,039
Coat hook	1	EACH	24.86	25
Stainless Shelf	1	EACH	103.62	104
Grab bar set, three piece	4	EACH	289.14	1,157
Mirrors- Toilet Rooms	4	EACH	366.09	1,464
SUBTOTAL: Toilet Accessories				\$12,928
10500 Fire Protection Specialties				

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DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
Fire extinguisher & cabinet, semi-recessed	4	EACH	432.18	1,729
Fixed metal storage shelving-Reinstall	18	LNFT	25.80	464
SUBTOTAL: Fire Protection Specialties				\$2,193
10600 Lockers & Benches				
Locker, two tier	8	EACH	303.05	2,424
Locker bench	14	LNFT	44.60	624
SUBTOTAL: Lockers & Benches				\$3,049
10900 Miscellaneous Specialties				
Miscellaneous specialties /Signage allowance	13,100	SQFT	0.89	11,659
Remove and Re-install Mirrors	20	LNFT	37.40	748
SUBTOTAL: Miscellaneous Specialties				\$12,407
11700 Athletic Equipment				
Basketball Hoops- Retractable	6	EA	10,899.00	65,394
Basketball Scoreboards	2	EA	3,800.00	7,600
Divider Curtian	4,752	SQFT	24.00	114,048
Volleyball Inserts	8	EA	650.00	5,200
Wall Pads	206	SQFT	13.60	2,802
SUBTOTAL: Athletic Equipment				\$195,044
21100 Selective Demolition				
Remove double check valve detector	1	EACH	690.00	690
Remove fire department connection	1	EACH	460.00	460
Remove existing piping	27	LNFT	23.00	621
Remove existing piping	1	LS	920.00	920
SUBTOTAL: Selective Demolition				\$2,691
21200 Fire Sprinkler Equipment & Specialties				
Wet sprinkler system - \$/SF	16,427	SQFT	3.11	51,091
Fire department connection, siamese, exterior wall mounted, 2-1/2" x 2-1/2" x 6"	1	EACH	1,899.97	1,900
Double check detector valve, 3"	1	EACH	3,643.94	3,644
Supervisory valve, 3" OS&Y w/tamper switch	1	EACH	1,290.94	1,291
Flow switches	1	EACH	315.00	315
Pressure gauges	1	EACH	260.00	260
Floor test connection	1	EACH	730.00	730
Fire hose valve, 2-1/2"	1	EACH	371.45	371
SUBTOTAL: Fire Sprinkler Equipment & Specialties				\$59,603
21300 Sprinkler Heads & Piping				
Fire/sprinkler main, sch. 10 blk steel pipe, fittings, and supports, 3"	37	LNFT	63.10	2,335
Tie new fire/sprinkler main piping into existing	1	EACH	345.00	345
SUBTOTAL: Sprinkler Heads & Piping				\$2,680
21400 Testing & Commissioning				
System pressure testing and certification	1	LSUM	2,760.00	2,760
SUBTOTAL: Testing & Commissioning				\$2,760
22100 Selective Demolition				
Remove existing wall-mount water closets including carrier and piping	4	EACH	324.45	1,298
Remove existing wall-mount lavatories including carrier and piping	4	EACH	270.38	1,082

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Remove existing wall-mount urinals including carrier and piping	1	EACH	324.45	324
Remove existing showers, stall fixtures with head/valve systems	4	EACH	540.75	2,163
Remove hose bibbs	2	EACH	54.08	108
Remove floor drain	4	EACH	216.30	865
Remove plumbing piping, aboveground/suspended	369	LNFT	16.22	5,986
Remove plumbing piping, underground including slab cutting, excavation, backfill, and patching	139	LNFT	103.34	14,364
SUBTOTAL: Selective Demolition				\$26,190
22200 Plumbing Fixtures				
Water closet, WC-1/2 wall hung, hardwired sensor-op flush valve	7	EACH	2,547.20	17,830
Lavatory, wall hung, L-1 hardwired sensor-op faucet	4	EACH	2,910.20	11,641
Lavatory, wall hung, L-2 hardwired sensor-op faucet	3	EACH	2,401.05	7,203
Sink, S-1	1	EACH	1,740.86	1,741
Electric water cooler, EWC-2 ADA-bilevel	1	EACH	3,916.03	3,916
Electric water cooler, EWC-1 ADA-w/ Bottle Filler	1	EACH	3,016.03	3,016
Shower head/valve, ADA/private, in tile enclosure	1	EACH	1,548.90	1,549
Hose bibbs	1	EACH	404.08	404
Wall hydrant, nonfreeze	1	EACH	537.14	537
SUBTOTAL: Plumbing Fixtures				\$47,837
22300 Plumbing Equipment & Specialties				
Hub drains	1	EACH	335.19	335
Floor drains-1	5	EACH	494.16	2,471
Floor drains-2	3	EACH	604.17	1,813
Cleanouts - floor	7	EACH	484.16	3,389
Cleanouts - wall	1	EACH	326.52	327
Cleanouts - grounds	6	EACH	669.78	4,019
Roof drains	1	EACH	1,124.45	1,124
SUBTOTAL: Plumbing Equipment & Specialties				\$13,477
22400 Domestic Water, Waste & Vent, & Storm Drainage Piping				
Domestic water pipe, fittings, and supports, 2" type L copper	12	LNFT	59.42	713
Domestic water pipe, fittings, and supports, 1" type L copper	21	LNFT	38.80	815
Domestic water pipe, fittings, and supports, 3/4" type L copper	316	LNFT	28.27	8,932
Domestic water pipe, fittings, and supports, 1/2" type L copper	114	LNFT	25.35	2,890
Pipe insulation, 2" domestic water piping	11	LNFT	10.07	111
Pipe insulation, 1" domestic water piping	21	LNFT	9.02	189
Pipe insulation, 3/4" domestic water piping	316	LNFT	8.54	2,699
Pipe insulation, 1/2" domestic water piping	114	LNFT	8.14	928
Vent pipe, fittings, and supports, PVC, AG, 2"	56	LNFT	52.47	2,938
Vent pipe, fittings, and supports, PVC, AG, 1-1/2"	87	LNFT	44.66	3,885
Storm drainage pipe, fittings, and supports, CI hub and spigot, AG, 6"	41	LNFT	108.33	4,442
Storm drainage pipe, fittings, and supports, PVC, AG, 6"	42	LNFT	118.43	4,974
Vent pipe and fittings, CI hub and spigot, UG, 2"	54	LNFT	40.66	2,196
Storm drainage pipe and fittings, PVC, UG, 6"	10	LNFT	81.19	812
Storm drainage pipe and fittings, PVC, UG, 4"	456	LNFT	57.38	26,163
Storm drainage pipe and fittings, PVC, UG, 3"	8	LNFT	46.48	372
Sanitary/waste pipe and fittings, PVC, UG, 4"	222	LNFT	47.64	10,577

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Sanitary/waste pipe and fittings, PVC, UG, 3"	80	LNFT	38.91	3,112
Sanitary/waste pipe and fittings, PVC, UG, 2"	52	LNFT	27.06	1,407
Vent pipe and fittings, PVC, UG, 1-1/2"	36	LNFT	24.67	888
Shutoff/isolation valve, ball, 1-1/2"	6	EACH	173.68	1,042
SUBTOTAL: Domestic Water, Waste & Vent, & Storm Drainage Piping				\$80,084
23100 Selective Demolition				
Disconnect and remove exhaust fan	1	EACH	460.00	460
Disconnect and remove expansion tank	2	EACH	460.00	920
Remove existing ductwork	108	LNFT	17.25	1,863
Remove existing grilles and diffusers	1	EACH	34.50	35
Remove existing grilles and diffusers & Cap	10	EACH	140.00	1,400
Remove existing grilles and diffusers-Transfer	2	EACH	57.50	115
Disconnect and remove chillers	1	EACH	9,596.00	9,596
Demo CW 3 way temp valve 2 way valve	2	EACH	459.60	919
Disconnect and remove hydronic system pumps, base-mount end suction	2	EACH	1,378.80	2,758
Disconnect and remove hydronic system pumps, water	2	EACH	459.60	919
Remove/demo existing mechanical piping - 4", thru 6", metallic	86	LNFT	18.38	1,581
Remove existing thermostats	1	EACH	34.50	35
Disconnect and remove cabinet unit heaters	4	EACH	229.80	919
SUBTOTAL: Selective Demolition				\$21,519
23200 Ventilation & Exhaust				
Air handling unit, 13,000 CFM	1	EACH	93,280.00	93,280
AHU Relief Fan 5 HP	1	EACH	14,800.00	14,800
AHU Supply Fan 15 HP	1	EACH	30,520.00	30,520
CHW coil connections, AHU/RTU - valves, fittings, specialties, and pipe insulation	3	EACH	8,937.70	26,813
HW coil connections, AHU/RTU - valves, fittings, specialties, and pipe insulation -	2	EACH	6,002.10	12,004
Exhaust fan, roof 1/2 hp	1	EACH	1,620.00	1,620
Exhaust fan, EF-7- Mezzanine	1	EACH	1,340.00	1,340
Variable air volume terminals w/HW reheat coil	3	EACH	1,360.00	4,080
Reheat coil connections, FPB/VAV - valves, fittings, and insulation	3	EACH	1,254.30	3,763
Galvanized steel duct, flat oval	6,183	LBS	15.00	92,745
Duct insulation	4,659	SQFT	4.70	21,902
Registers, grilles and diffusers-CD-2	4	EACH	136.00	544
Registers, grilles and diffusers-CD-1	2	EACH	116.00	232
Supply Grille 1	3	EACH	373.00	1,119
Supply Grille 2	1	EACH	455.00	455
Supply Grille DL-1	47	EACH	315.00	14,805
Return Grille 1	4	EACH	400.00	1,600
Return Grille 2	1	EACH	355.00	355
Transfer Grille 1	5	EACH	352.00	1,760
Transfer Grille 2	4	EACH	378.00	1,512
Transfer Grille 3	1	EACH	526.67	527
Exhaust Grille 1	6	EACH	365.00	2,190
Exhaust Grille 2	1	EACH	420.00	420
Louvers	118	SQFT	79.50	9,381
SUBTOTAL: Ventilation & Exhaust				\$337,767

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DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
23300 Central Hydronic & Steam Equipment & Specialties				
Heat exchanger	1	EACH	15,378.80	15,379
Process Chiller Multi Stack - 50 Ton (4) Units	1	EACH	186,970.00	186,970
Hydronic system pump, 17.9 hp, end suction	2	EACH	8,378.80	16,758
Hydronic system pump, 9.7 hp, end Suction	2	EACH	5,389.40	10,779
Hydronic system pump, 8.5 hp, inline	2	EACH	4,744.70	9,489
Hydronic system pump, 2.7 hp, inline	3	EACH	3,129.80	9,389
Hydronic system pump, 3.2 hp, inline	2	EACH	3,529.80	7,060
Hydronic system pump, 1 hp, inline	1	EACH	1,614.90	1,615
Variable frequency drive, pump, 25 hp	2	EACH	4,993.39	9,987
Variable frequency drive, pump, 15 hp	4	EACH	3,343.39	13,374
Variable frequency drive, pump, 10 hp	3	EACH	3,073.39	9,220
Variable frequency drive, pump, 5 hp	5	EACH	2,293.39	11,467
Variable frequency drive, pump, 3/4 hp	1	EACH	1,295.39	1,295
3" two way valves	2	EACH	1,115.60	2,231
Flexible pump connections	22	EACH	314.80	6,926
Suction diffuser	11	EACH	1,779.17	19,571
Three Way valve, 4"	1	EACH	2,279.17	2,279
Pump strainer, Y-type	11	EACH	694.17	7,636
Buffer Tanks -150	1	EACH	1,509.60	1,510
Buffer Tanks -200	1	EACH	1,767.05	1,767
Expansion tank	4	EACH	4,378.80	17,515
Air separator, 6"	2	EACH	3,989.40	7,979
Air separator, 4"	1	EACH	2,617.05	2,617
CHW & HHW Metering	2	EACH	7,759.60	15,519
Glycol Fill Unit	1	EACH	1,359.60	1,360
Pressure fill/makeup water system	3	EACH	7,259.60	21,779
SUBTOTAL: Central Hydronic & Steam Equipment & Specialties				\$411,469
23400 Heating & Ventilating Terminals				
Cabinet unit heaters, HW hydronic	2	EACH	2,059.60	4,119
Destrat Fans-Controller	1	EACH	1,489.40	1,489
Destrat Fans-DF1-8-56"	8	EACH	1,139.40	9,115
HW connections - valves, fittings, and specialties	2	EACH	429.80	860
SUBTOTAL: Heating & Ventilating Terminals				\$15,583
23500 HVAC Piping				
CHWS/R piping, std. wgt. blk. steel pipe, fittings, and supports, welded/flanged, 6"	431	LNFT	160.27	69,075
CHWS/R piping, std. wgt. blk. steel pipe, fittings, and supports, welded/flanged, 4"	349	LNFT	107.73	37,597
CHWS/R piping, std. wgt. blk. steel pipe, fittings, and supports, welded/flanged, 3"	403	LNFT	88.79	35,783
S/R pipe, type L copper pipe, fittings, and supports, 3/4"	55	LNFT	27.38	1,506
S/R pipe, type L copper pipe, fittings, and supports, 1/2"	163	LNFT	26.03	4,243
HHWS/R piping, std. wgt. blk. steel pipe, fittings, and supports, welded/flanged, 4"	349	LNFT	108.73	37,946
Line Flush -Clean and Test	1	LS	5,357.60	5,358
Pipe insulation, CHWS/R, 6"	431	LNFT	21.34	9,198

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Pipe insulation, CHWS/R, 4"	698	LNFT	17.21	12,012
Pipe insulation, CHWS/R, 3"	403	LNFT	14.54	5,860
Pipe insulation, S/R, 3/4"	55	LNFT	9.64	530
Pipe insulation, S/R, 1/2"	163	LNFT	9.10	1,483
SUBTOTAL: HVAC Piping				\$220,591
23600 Temperature Controls				
DDC controls - air handling units	1	EACH	20,000.00	20,000
DDC controls - air handling units-Convert to 2 zone system	1	EACH	4,000.00	4,000
DDC controls - chiller	1	EACH	6,500.00	6,500
DDC controls - hydronic pumps, variable speed	15	EACH	5,000.00	75,000
Humidistats-In Steel Box at Gym	1	EACH	800.00	800
CO2 sensors	2	EACH	400.00	800
SUBTOTAL: Temperature Controls				\$107,100
23900 Special HVAC				
Backfill with sand	2,823	CUYD	48.16	135,953
Ground source/geothermal pipe,HPDE , 2"	125	LNFT	4.30	537
Ground source/geothermal pipe,HPDE , 2-1/2"	181	LNFT	4.91	888
Ground source/geothermal pipe,HPDE , 3"	202	LNFT	5.32	1,074
Ground source/geothermal pipe,HPDE , 4"	1,413	LNFT	6.59	9,311
Geothermal Pipe Manifold	1	EA	10,200.00	10,200
Trench Excavation	1,921	LNFT	32.27	61,982
Geothermal Boring 500' depth	54	EACH	2,300.00	124,200
Grout Pumped into Borings	188	EACH	257.00	48,316
SUBTOTAL: Special HVAC				\$392,461
26100 Selective Demolition				
Disconnect and remove interior light fixtures to 15' high, including supports & whips	46	EACH	49.03	2,255
Disconnect and remove electrical devices	15	EACH	29.88	448
Disconnect and remove Motor and Feed	1	EACH	443.56	444
Disconnect CUH	2	EACH	210.09	420
Disconnect and remove Motor	5	EACH	256.78	1,284
Disconnect and remove Fire Alarm devices	7	EACH	29.65	208
Disconnect and remove Fire Alarm panel	1	EACH	186.78	187
SUBTOTAL: Selective Demolition				\$5,245
26200 Main Power Distribution				
Distribution Panel 700A - K	2	EACH	7,781.02	15,562
Circuit breaker Bolt-on 3pole 90 Amp	2	EACH	323.39	647
Remove 600 Amp Breaker and Replace with 700 Amp	1	EACH	2,966.95	2,967
Feeder installation 600 V, including conduit and XHHW wire, 90 A	80	LNFT	30.01	2,401
Feeder installation 600 V, including conduit and XHHW wire, 600A	228	LNFT	183.39	41,813
Temporary Power	1	LSUM	2,320.68	2,321
SUBTOTAL: Main Power Distribution				\$65,710
26500 Lighting				
Light fixture, interior, including lamps, mounting hardware and connections - Type - A	16	EACH	341.74	5,468

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DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
Light fixture, interior, including lamps, mounting hardware and connections - Type - F	13	EACH	261.74	3,403
Light fixture, interior, including lamps, mounting hardware and connections - Type - C	8	EACH	316.74	2,534
Light fixture, interior, including lamps, mounting hardware and connections - Type - B	18	EACH	246.74	4,441
Light fixture, interior, including lamps, mounting hardware and connections - K	8	EACH	455.74	3,646
Light fixture, interior, including lamps, mounting hardware and connections - D-Can	3	EACH	291.74	875
Light fixture, interior, including lamps, exterior Type J	10	EACH	416.74	4,167
Exit lighting, L.E.D.	11	EACH	273.74	3,011
Emergency lighting units, battery operated, twin sealed beam light, 25 W, 6 V each	17	EACH	313.74	5,334
Exterior Wall Pack Type JE	2	EACH	452.74	905
Occupancy sensors, ceiling mounted	10	EACH	239.39	2,394
Occupancy sensors automatic wall switches	4	EACH	181.89	728
Photo Cell	1	EACH	353.39	353
Toggle switch, quiet type, 20 amp	9	EACH	109.64	987
3 way switch, quiet type, single pole, 20 amp	2	EACH	105.39	211
Dimming Switch	5	EACH	155.39	777
Branch installation 600 V, including 3/4" EMT conduit and THWN wire, 20A	1,640	LNFT	17.41	28,555
SUBTOTAL: Lighting				\$67,788
26600 Branch Power Distribution & Devices				
Duplex receptacle, backbox, grounded, 120 volt, 20 amp	42	EACH	111.39	4,678
Duplex receptacle, Ground Fault Interrupting, 20 amp	8	EACH	138.39	1,107
Duplex receptacle, Ground Fault Interrupting, 20 amp with Waterproof Cover	2	EACH	143.39	287
Quadruplex receptacle, backbox, grounded, 120 volt, 20 amp	6	EACH	121.39	728
Power special purpose receptacles	36	EACH	126.39	4,550
Branch installation 600 V, including 3/4" EMT conduit and THWN wire, 20A	1,280	LNFT	17.26	22,095
SUBTOTAL: Branch Power Distribution & Devices				\$33,445
26700 Mechanical Equipment Connections & Feeders				
GEO Field Pump Hook-up	2	EACH	1,760.34	3,521
HW Pump Hook-up	2	EACH	730.17	1,460
Glycol Pump Hook-up	2	EACH	730.17	1,460
CW Pump Hook-up	2	EACH	1,366.95	2,734
Coil Pump Hook-up	1	EACH	426.78	427
Chiller Hook-up	1	EACH	3,747.12	3,747
AHU Hook-up	1	EACH	2,120.34	2,120
GEO Primary Pump Hook-up	2	EACH	1,363.69	2,727
Install VFD - provided by others	15	EACH	430.17	6,453
SUBTOTAL: Mechanical Equipment Connections & Feeders				\$24,649
26900 Special Electrical				
Photovoltaic System-KW not given	4,528	SQFT	45.00	203,760
SUBTOTAL: Special Electrical				\$203,760
27200 Tele/Data Systems				
Voice/Data wall outlet, back box and plate, 1 gang, 2-port	6	EACH	351.36	2,108



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DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
Wireless Access Point and mounting hardware	4	EACH	506.78	2,027
Electric metallic tubing, 1/2" diameter, to 15' high, including fittings and supports	240	LNFT	9.01	2,163
Electric metallic tubing, 2" diameter, for fiber to telecomms rooms	186	LNFT	21.75	4,046
Unshielded twisted pair (UTP) cable, solid, PVC jacket, #24, 4 pair, category 6a	1,200	LNFT	1.38	1,661
12-Fiber, Singlemode, Fiber Optic Cable, Installed In Conduit	186	LNFT	2.61	486
Testing and Engineering/Connections	1	LSUM	560.34	560
SUBTOTAL: Tele/Data Systems				\$13,052
27300 Intercom & Public Address Systems				
PA/Sound system, speaker, ceiling mounted	13	EACH	245.30	3,189
Conduit and PA/Intercommunication wiring	650	LNFT	12.13	7,882
Terminations and Testing	1	LS	1,320.68	1,321
SUBTOTAL: Intercom & Public Address Systems				\$12,392
27600 Audio/Visual & Television System				
SUBTOTAL: Audio/Visual & Television System				\$0
28200 Fire Alarm Systems				
Remove and Replace FA System at Existing Building	38,000	SQFT	5.15	195,700
Fire alarm control panel, addressable, up to 200 points, connections & programming-Replace existing	1	EACH	16,209.38	16,209
Smoke detector, addressable type	15	EACH	296.39	4,446
Smoke detector, duct type, addressable	2	EACH	508.48	1,017
Heat detector, addressable	2	EACH	273.39	547
Manual alarm station, addressable	2	EACH	276.39	553
Visual alarm	3	EACH	251.39	754
Speaker and strobe light alarm	7	EACH	330.39	2,313
Fire alarm wiring installation, including 3/4" EMT conduit and FA cable wire	425	LNFT	12.46	5,295
SUBTOTAL: Fire Alarm Systems				\$226,834
28300 Intrusion Detection & Access Control Systems				
SUBTOTAL: Intrusion Detection & Access Control Systems				\$0
28400 CCTV System				
Pan tilt & zoom camera - Indoor	5	EACH	866.78	4,334
Camera power supply	5	EACH	355.09	1,775
Camera back box - interior	5	EACH	41.35	207
Conduit and CCTV wiring	500	LNFT	15.13	7,564
Terminations, Testing and Engineering-Tie to Existing	1	LS	747.30	747
SUBTOTAL: CCTV System				\$14,628
31200 Site Grading				
Site Survey and Layout	24	HRS	143.77	3,450
Cut and fill direct on site	700	CUYD	4.62	3,235
Rough grading, small area	12,000	SQFT	0.43	5,219
Fine grading, small area	12,000	SQFT	0.61	7,332
SUBTOTAL: Site Grading				\$19,236
31300 Foundation Excavation & Fill				
Excavate for Bore Field	2,823	CUYD	13.17	37,166
Excavate for footings	298	CUYD	8.78	2,616



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DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
Excavate for Slab on Grade	447	CUYD	7.90	3,531
Backfill with imported material	200	CUYD	15.56	3,112
Add Backfill to Site	700	CUYD	17.16	12,011
SUBTOTAL: Foundation Excavation & Fill				\$58,436
31600 Erosion & Sedimentation Control				
Tracking Pad	2,435	SQFT	3.63	8,837
Rip Rap	205	SQFT	4.91	1,007
Erosion Control Mating	614	SQYD	1.22	747
Erosion Control	1	LS	1,000.00	1,000
SUBTOTAL: Erosion & Sedimentation Control				\$11,591
32100 Pavement				
Protect Tree	1	EACH	274.01	274
Remove tree, 12"-24" cal	6	EACH	794.62	4,768
Relocate Light Pole	1	EACH	2,648.72	2,649
Remove asphalt paving	6,267	SQFT	0.89	5,582
Remove concrete paving	1,566	SQFT	2.58	4,047
Remove curb and gutter	29	LNFT	8.10	235
Remove Retaining Wall	294	SQFT	4.32	1,269
Remove concrete walls	15	CUYD	252.35	3,684
Site Removals	1	LS	10,000.00	10,000
Temp Chainlink Fence	143	LNFT	15.42	2,205
Saw cut paving,	336	LNFT	6.07	2,041
CA-6 base, 4" thk at concrete walk	28	CUYD	49.61	1,399
CA-6 base, 8" thk at asphalt paving	137	CUYD	43.19	5,917
Asphalt pavement, 2" surface course, on 3" binder course	5,504	SQFT	3.68	20,279
Curb Stop	9	EACH	113.26	1,019
Stripe parking space, ADA	9	EACH	451.45	4,063
Stripe parking space, No Parking	5	EACH	411.45	2,057
Parking Signage	9	EACH	116.72	1,051
Concrete curb & gutter, machine formed	287	LNFT	17.76	5,098
Concrete curb & gutter, 6" Box	15	LNFT	15.26	229
Concrete walk, 5" PC concrete	2,301	SQFT	6.30	14,486
CA-6 base, 6" thk, at concrete slab on grade	223	CUYD	30.01	6,692
SUBTOTAL: Pavement				\$99,043
32600 Landscaping				
Trees, deciduous, 2" cal, B&B	9	EACH	1,287.50	11,588
Trees, evergreen	3	EACH	461.67	1,385
Ornamental trees, 6' high	5	EACH	799.29	3,996
Shrubs, deciduous, 8"-24"	91	EACH	56.95	5,183
Shrubs, deciduous, 24"-36", B&B	42	EACH	66.94	2,811
Shrubs, evergreen, 18"-24", B&B	33	EACH	78.95	2,605
Ornamental grasses, 1 gal	43	EACH	15.39	662
Perennials, 1 gal	144	EACH	8.51	1,225
Planting Bed	4,139	SQFT	3.26	13,510
Rain Garden-Vegatative Mat	2,689	SQFT	4.64	12,483
Topsoil, 12" thk	12,635	SQFT	1.34	16,933

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DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
Seeding, fertilizer and fine grading, machine	3,594	SQFT	0.90	3,245
Mulch, gravel, hand spread	12	CUYD	133.44	1,601
SUBTOTAL: Landscaping				\$77,229
32700 Site Furnishings				
Bike racks	18	EACH	988.27	17,789
Edging	757	LNFT	2.78	2,101
SUBTOTAL: Site Furnishings				\$19,890
33100 Selective Site Demolition				
Excavate and remove existing underground utility piping; backfill and compact after removal-Electrical	137	LNFT	17.78	2,436
SUBTOTAL: Selective Site Demolition				\$2,436
33200 Site Water Service				
SUBTOTAL: Site Water Service				\$0
33300 Site Sanitary & Storm Sewer				
PVC storm sewer pipe, HPDE 10"	70	LNFT	17.66	1,237
PVC storm sewer pipe, HPDE , 8"	147	LNFT	13.25	1,947
PVC storm sewer pipe, HPDE, 6"	240	LNFT	8.39	2,013
Subsoil drainage pipe, perforated HPDE , 6"	150	LNFT	17.20	2,580
Catch basins	9	EACH	2,481.55	22,334
Cleanouts	2	EACH	721.31	1,443
Trench excavation, pipe bedding, and backfill (<=18" pipe)	607	LNFT	27.63	16,773
SUBTOTAL: Site Sanitary & Storm Sewer				\$48,327
TOTAL: Base Building				\$5,469,279
01 HVAC Alternates				
23100 Selective Demolition				
Disconnect and remove HW boilers including flue/breeching and piping	1	EACH	1,838.40	1,838
Remove/demo existing mechanical piping - 2", thru 4", metallic	118	LNFT	6.13	723
SUBTOTAL: Selective Demolition				\$2,562
23300 Central Hydronic & Steam Equipment & Specialties				
Hydronic system pump, 1 hp, inline	1	EACH	1,729.80	1,730
Add 3 way Contol Valve 3"	2	EACH	1,144.70	2,289
SUBTOTAL: Central Hydronic & Steam Equipment & Specialties				\$4,019
23600 Temperature Controls				
DDC controls - Valves	2	EACH	2,500.00	5,000
SUBTOTAL: Temperature Controls				\$5,000
23900 Special HVAC				
Backfill with sand	931	CUYD	48.16	44,836
Geothermal Boring 500' depth	17	EACH	2,300.00	39,100
Grout Pumped into Borings	62	EACH	257.00	15,934
SUBTOTAL: Special HVAC				\$99,870
31300 Foundation Excavation & Fill				
Excavate for Bore Field	931	CUYD	13.17	12,257

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DESCRIPTION	QTY	UM	UNIT COST	TOTAL COST
SUBTOTAL: Foundation Excavation & Fill				\$12,257
TOTAL: HVAC Alternates				\$123,708

02 Solar Panel Additions

26900 Special Electrical

Photovoltaic System-Demo Existing Solar Disconnect	1	EA	238.48	238
Photovoltaic System-250 Amp Disconnect	1	EA	1,713.56	1,714
Photovoltaic System-Add Combiner Panel	1	EA	973.56	974
Photovoltaic System-Add Feeder Sections	400	LNFT	39.94	15,977
Photovoltaic System-Add-10KW Invertor	2	EA	2,373.56	4,747
Photovoltaic System-Add-50KW Invertor	1	EA	3,873.56	3,874
SUBTOTAL: Special Electrical				\$27,523

TOTAL: Solar Panel Additions				\$27,523
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