

PROJECT: SOF INTERIM STORAGE FACILITY
Solicitation: W912KC-05-R-0001
 193rd Special Operations Wing

OWNER
 USPFO for PA
 Dep. of Military/Veterans Affairs
 Annville, PA 17003-5003

CONTRACTOR

DESIGNER
 Ganlec
 209 Senate Avenue
 Camp Hill, PA 17011

Project Number: W912KC-05-R-0001

GENERAL CONTRACTOR ADJUSTMENTS					
Contingency:	0.00%	Profit:	8.00%	Overhead:	0.00%
Bond:	0.00%				

Cubic Footage: 35,470 Square Footage: 3,457

Assemblies

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
<i>General Requirements - 1A</i>										
										01A
.01107 700 1100	.Conventional Surveying, crew for building layout, 2 person crew	2.0	Day	32	\$1,551	\$0	\$186	\$1,738	868.87	0.50
.01290 800 0010	.Taxes, state, average	1.0	%	0	\$0	\$0	\$43,528	\$43,528	43,528.18	12.59
.01310 150 0100	.Permits Rule of Thumb, most cities, maximum	1.0	Job	0	\$0	\$0	\$14,509	\$14,509	14,509.39	4.20
.01310 200 0100	.Performance Bond, for buildings, minimum	1.0	Job	0	\$0	\$0	\$18,137	\$18,137	18,136.74	5.25
.01310 350 0250	.All-risk Insurance, maximum	1.0	Job	0	\$0	\$0	\$4,498	\$4,498	4,497.91	1.30
.01310 400 0150	.Main Office Expense, average for General Contractors as a percentage of annual volume, annual volume up to 4.0 million dollars	1.0	% Vol.	0	\$0	\$0	\$32,646	\$32,646	32,646.14	9.44
.01310 700 0280	.Field Personnel, superintendent, maximum	25.0	Week	0	\$55,283	\$0	\$0	\$55,283	2,211.30	15.99
.01450 500 0020	.Field Testing, for concrete building, costing \$1,000,000, maximum	1.0	Project	0	\$0	\$0	\$2,722	\$2,722	2,721.60	0.79
.01450 500 0050	.Field Testing, for steel building, costing \$1,000,000, minimum	1.0	Project	0	\$0	\$0	\$2,041	\$2,041	2,041.20	0.59
.01510 050 0040	.Temporary electrical power equipment (pro-rated per job), overhead feed, 3 uses, 200 amp	1.0	Ea.	8	\$415	\$1,075	\$0	\$1,490	1,490.08	0.43
.01510 050 0210	.Temporary electrical power equipment (pro-rated per job), transformers, 3 uses, 30 KVA	1.0	Ea.	8	\$415	\$871	\$0	\$1,286	1,285.96	0.37
.01510 050 0890	.Temporary electrical power equipment (pro-rated per job), connections, office trailer, 200 amp	1.0	Ea.	4	\$210	\$769	\$0	\$978	978.42	0.28
.01510 800 0450	.Temporary Power, for temp lighting only, 23.6 KWH/month, max	3.6	CSF Flr	0	\$0	\$0	\$15	\$15	4.10	0.00
.01510 800 0650	.Temporary Utilities, power for job duration, incl. elevator, etc, max	3.6	CSF Flr	0	\$0	\$0	\$568	\$568	157.85	0.16
.01520 500 0250	.Office Trailer, furnished, rent per month, 20' x 8', excl. hookups	6.0	Ea.	0	\$0	\$1,413	\$0	\$1,413	235.42	0.41
.01520 500 0700	.Office Trailer, excl. hookups, air conditioning, rent per month, add	6.0	Ea.	0	\$0	\$363	\$0	\$363	60.56	0.11

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General Requirements - 1A				01A							
.01520 500 1250	Storage Boxes, rent per month, 20' x 8'	6.0	Ea.	0	\$0	\$682	\$0	\$682	113.63	0.20	
.01520 550 0120	Field Office Expense, office supplies, average	6.0	Month	0	\$0	\$772	\$0	\$772	128.60	0.22	
.01520 550 0140	Field Office Expense, telephone bill; avg. bill/month, incl. long dist.	6.0	Month	0	\$0	\$1,886	\$0	\$1,886	314.34	0.55	
.01520 550 0160	Field Office Expense, field office lights & HVAC	6.0	Month	0	\$0	\$865	\$0	\$865	144.24	0.25	
.01540 750 0090	Scaffolding, steel tubular, reg. rent, 1 use/mo, erect or dismantle, bldg ext, wall face, 6'-4" x 5' frames, 1 to 5 stories, excl. planks	9.0	C.S.F.	9	\$392	\$337	\$0	\$729	80.97	0.21	
.01540 750 2850	Scaffolding, steel tubular, regular, accessory, plank, rent/mo, 2" x 10" x 16' L	6.0	Ea.		\$0	\$46	\$0	\$46	7.69	0.01	
.01550 700 0050	Temporary, roads, gravel fill, 4" gravel depth, excl surfacing	33.0	S.Y.	2	\$80	\$156	\$15	\$251	7.62	0.07	
.01580 700 0010	Project Signs, sign, Hi-intensity reflectorized, buy, excl. posts	32.0	S.F.	0	\$435	\$806	\$0	\$1,241	38.78	0.36	
.01590 200 0400	Rent backhoe-loader 40 to 45 HP 5/8 CY capacity	3.0	Day	0	\$0	\$0	\$845	\$845	281.69	0.24	
SUBTOTAL General Requirements - 1A				63				\$188,532	54.54		
Sitework - Demolition				02A							
.02220 220 1700	Fencing demolition, remove chain link posts & fabric, 8' to 10' high	233.0	L.F.	13	\$504	\$0	\$171	\$675	2.90	0.20	
.02220 240 0020	Minor site demolition, remove existing catch basin or manhole	1.0	Ea.	6	\$241	\$0	\$82	\$323	322.51	0.09	
.02220 240 2960	Minor site demolition, pipe, sewer/water, 24" diameter, remove, excludes excavation, hauling	162.0	L.F.	32	\$1,301	\$0	\$439	\$1,739	10.74	0.50	
.02580 500 6400	Remove Electric and telephone site work, poles	1.0	Ea.	3	\$183	\$0	\$14	\$196	196.50	0.06	
.02820 130 5000	Remove Gate	1.0	Ea	0	\$143	\$0	\$0	\$143	142.88	0.04	
SUBTOTAL Sitework - Demolition				54				\$3,077	0.89		
Sitework - Earthwork				02B							
.02060 150 0360	Granular Fill	2,200.0	C.Y.	103	\$4,191	\$29,938	\$10,418	\$44,547	20.25	12.89	
.02230 500 1000	Stripping, topsoil, clay, medium hard, ideal conditions, 300 H.P. dozer, strip	182.0	C.Y.	1	\$50	\$0	\$156	\$206	1.13	0.06	
.022504001200	Sheet piling, steel, 22 psf, 15' excavation, 6" high, excludes wales	807.5	S.F.	52	\$2,461	\$9,230	\$2,978	\$14,670	18.17	4.24	

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Sitework - Earthwork				02B						
.02315 310 5620	Compaction, 3 passes, 6" lifts, riding, sheepsfoot or wobbly wheel roller	1,542.8	E.C.Y.	11	\$483	\$0	\$1,071	\$1,554	1.01	0.45
.02315 424 0260	Excavating, bulk bank measure, 2 C.Y. capacity = 130 C.Y./hour, backhoe, hydraulic, crawler mounted	1,000.0	B.C.Y.	15	\$694	\$0	\$1,334	\$2,028	2.03	0.59
.02315 424 1250	Excavating, bulk bank measure, 2-1/2 C.Y. capacity = 95 C.Y./hour, front end loader, track mounted	650.0	B.C.Y.	10	\$451	\$0	\$725	\$1,176	1.81	0.34
.02315 432 2240	Excavating, bulk, open site, bank measure, clay, 75 H.P., 150' haul, dozer	1,000.0	B.C.Y.	96	\$4,273	\$0	\$3,756	\$8,029	8.03	2.32
SUBTOTAL Sitework - Earthwork				289				\$72,209		20.89
Sitework - Site Concrete				02E						
.02220 360 0400	Saw cutting, concrete slabs, mesh reinforcing, per inch of depth to 3" deep	150.0	L.F.	2	\$102	\$63	\$63	\$229	1.52	0.07
.027703000415	Curbs, concrete, machine formed, straight, 6" x 18", cast-in-place, add	25.0	L.F.	1	\$24	\$122	\$11	\$158	6.33	0.05
.027703000416	Curbs, concrete, machine formed, radius, 6" x 18" radius, cast-in-place	198.0	L.F.	10	\$434	\$1,013	\$199	\$1,646	8.31	0.48
.02775 275 0400	Sidewalk, concrete, cast-in-place	324.0	S.F.	15	\$661	\$869	\$0	\$1,530	4.72	0.44
SUBTOTAL Sitework - Site Concrete				29				\$3,563		1.03
Sitework - Asphalt/Bituminous Surfacing				02F						
.01450 500 0200	Field Testing, asphalt testing, compressive strength Marshall stability, set of three samples	1.0	Ea.	0	\$0	\$0	\$237	\$237	236.78	0.07
.01450 500 0220	Asphalt testing, density, set of three samples	3.0	Ea.	0	\$0	\$0	\$408	\$408	136.08	0.12
.01450 500 0250	Asphalt testing, extraction, individual tests on sample	1.0	Ea.	0	\$0	\$0	\$215	\$215	215.01	0.06
.01450 500 0350	Asphalt testing, mix design, 5 specimens	1.0	Ea.	0	\$0	\$0	\$287	\$287	287.13	0.08
.01450 500 4735	Soil testing, soil density, nuclear method, ASTM D2922	5.0	Ea.	0	\$0	\$0	\$279	\$279	55.79	0.08
.01450 500 4950	Soil testing, Proctor compaction, 6" modified mold	1.0	Ea.	0	\$0	\$0	\$108	\$108	107.50	0.03
.01560 100 1100	Barricades, guardrail, wooden, 3' high, 1" x 6" planks on 4" x 4" posts	150.0	L.F.	15	\$637	\$402	\$0	\$1,039	6.93	0.30
.02310 100 1050	Fine grade, fine grade for small irregular areas, to 15,000 S.Y.	647.1	S.Y.	16	\$669	\$0	\$749	\$1,418	2.19	0.41
.02315 310 5040	Compaction, riding, vibrating roller, 4 passes, 6" lifts	107.9	E.C.Y.	1	\$31	\$0	\$29	\$60	0.56	0.02

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Sitework - Asphalt/Bituminous Surfacing				02F						
.02740 310 0080	Asphaltic concrete pavement, for highways and large paved areas, wearing course, 1-1/2" thick	647.1	S.Y.	7	\$299	\$1,990	\$247	\$2,536	3.92	0.73
.02740 310 0460	Asphaltic concrete pavement, for highways and large paved areas, binding course, 3" thick	647.1	S.Y.	19	\$749	\$8,806	\$449	\$10,003	15.46	2.89
.02740 310 1080	Asphaltic concrete pavement, for highways and large paved areas, pavement replacement over trench, 6" thick	94.0	S.Y.	82	\$3,262	\$1,394	\$288	\$4,944	52.59	1.43
.02760 300 0710	Lines on pavement, thermoplastic, white or yellow, 4" wide	10.0	L.F.	0	\$1	\$9	\$1	\$11	1.10	0.00
.02785 600 3270	Tack coat, emulsion, 0.10 gallons per S.Y., 1,000 S.Y.	647.1	S.Y.	4	\$176	\$352	\$220	\$749	1.16	0.22
.02960 100 5280	Surface treatment, 1" to 3" asphalt pavement, 5,000 to 10,000 S.Y., cold planing & cleaning	168.9	S.Y.	2	\$103	\$0	\$331	\$434	2.57	0.13
SUBTOTAL Sitework - Asphalt/Bituminous Surfacing				146				\$22,728		6.57
Sitework - Landscaping/Irrigation				02G						
.02370 700 1100	Erosion control, silt fence, polypropylene, adverse conditions	438.0	L.F.	7	\$274	\$131	\$0	\$405	0.93	0.12
.02915 400 0320	Planting, trees, shrubs and ground cover, light soil, container, 3 gallon, includes planting only	13.0	Ea.	5	\$201	\$0	\$0	\$201	15.45	0.06
.02915 400 0330	Planting, trees, shrubs and ground cover, light soil, container, 5 gallon, includes planting only	6.0	Ea.	3	\$128	\$0	\$0	\$128	21.30	0.04
.02920 310 0310	Seeding, fine grading and seeding, with equipment	1,880.0	S.Y.	90	\$3,658	\$358	\$614	\$4,631	2.46	1.34
.02930 310 0800	Bush	13.0	Ea.	5	\$205	\$486	\$0	\$692	53.21	0.20
.02930 410 0900	Tree	6.0	Ea.	8	\$331	\$1,110	\$208	\$1,649	274.88	0.48
SUBTOTAL Sitework - Landscaping/Irrigation				119				\$7,705		2.23
Sitework - Miscellaneous				02Gm						
.02840 800 1300	Parking barriers, pipe bollards, conc filled/paint, 8' L x 4' D hole, 6" diam.	4.0	Ea.	5	\$169	\$1,203	\$65	\$1,437	359.18	0.42
.02890 100 0700	Signs, guide and directional signs, high intensity, 12" x 18", excludes posts	1.0	Ea.	0	\$16	\$46	\$12	\$74	74.03	0.02
SUBTOTAL Sitework - Miscellaneous				5				\$1,511		0.44
Sitework - Fences				02H						
.02820 130 0940	Chain link fence, industrial, aluminized steel, 6 ga. wire, 2-1/2" posts @ 10' OC, 8' high	731.0	L.F.	130	\$4,606	\$30,837	\$3,293	\$38,735	52.99	11.20

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Sitework - Fences				02H						
.02820 130 1100	Chain link fence, industrial, galvanized steel, 6 ga. wire, 2-1/2" posts @ 10' OC, 8' high, 3" diameter	8.0	Ea.	6	\$229	\$789	\$162	\$1,180	147.51	0.34
.02820 150 7900	Auger fence post hole, medium soil, 3' deep, by hand	74.0	Ea.	20	\$650	\$0	\$0	\$650	8.78	0.19
.02820 420 0210	Wire fencing, barb wire, galvanized	0.5	M.L.F.	8	\$332	\$123	\$31	\$486	1,075.03	0.14
SUBTOTAL Sitework - Fences				164				\$41,051		11.87
Sitework - Utilities				02K						
.02315 110 0900	Backfill, 12" layers, compaction in layers, roller compaction with operator walking, add to above	1,545.0	E.C.Y.	124	\$5,508	\$0	\$2,102	\$7,611	4.93	2.20
.02315 610 0110	Excavating, trench, 4' to 6' deep, 3/4 C.Y. bucket, expose pipe with hydraulic backhoe, excludes sheeting or dewatering	1,477.0	B.C.Y.	78	\$3,618	\$0	\$3,537	\$7,155	4.84	2.07
.02315 610 0130	Excavating, trench or continuous footing, 4' to 6' deep, 1-1/2 C.Y. bucket, hydraulic backhoe, excludes sheeting or dewatering	1,208.0	B.C.Y.	36	\$1,644	\$0	\$2,400	\$4,044	3.35	1.17
.02315 640 0200	Bedding, for pipe and conduit, sand, dead or bank, excludes compaction	15.0	L.C.Y.	2	\$96	\$58	\$33	\$187	12.46	0.05
.02315 640 0500	Bedding, for pipe and conduit, compacting bedding in trench	15.0	E.C.Y.	1	\$50	\$0	\$8	\$57	3.81	0.02
.02510 710 7100	Distribution connection, tapping sleeves with rubber gaskets, 10" x 6", excludes excavation and backfill	1.0	Ea.	1	\$52	\$1,973	\$12	\$2,037	2,037.39	0.59
.02580 420 0380	Underground marking tape, 6" wide, excludes excavation, backfill and cast in place concrete	1,500.0	L.F.	12	\$612	\$653	\$0	\$1,266	0.84	0.37
.02580 420 1600	Man holes, precast w/iron racks & pulling irons, C.I. frame and cover, 4' x 6' x 7' deep, excludes excavation, backfill and cast in place concrete	1.0	Ea.	29	\$1,082	\$2,347	\$517	\$3,946	3,946.32	1.14
.025804207200	Underground duct banks, 2 @ 4" diameter	291.0	L.F.	67	\$3,425	\$14,850	\$0	\$18,275	62.80	5.29
.025804207400	Underground duct banks, 4 @ 4" diameter	196.0	L.F.	92	\$4,761	\$19,870	\$0	\$24,631	125.67	7.13
.025804207640	Underground duct banks, 8 @ 4" diameter,	95.0	L.F.	51	\$2,586	\$19,521	\$0	\$22,106	232.70	6.39
.026304001110	Comm pull box	2.0	Ea.	15	\$582	\$1,388	\$181	\$2,151	1,075.71	0.62
.03310 220 0200	Thrust block	4.0	C.Y.	4	\$191	\$411	\$13	\$615	153.63	0.18
SUBTOTAL Sitework - Utilities				513				\$94,082		27.21
Footings - System				03O						
.03310 240 3800	Structural concrete, in place, spread footing, under 1 C.Y., includes forms(4 uses), reinforcing steel, and finishing	5.0	C.Y.	15	\$599	\$728	\$5	\$1,332	266.42	0.39

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Footings - System 030										
.03310 240 3920	Structural concrete, in place, continuous strip footing, reinforced, includes forms(4 uses), and finishing	33.0	C.Y.	106	\$4,289	\$5,164	\$38	\$9,491	287.61	2.75
SUBTOTAL Footings - System				120				\$10,823		3.13
SOG - System 03Y										
.02720 200 0370	Base course, for roadways and large paved areas, bank run gravel, spread and compacted	400.0	S.Y.	2	\$98	\$1,883	\$158	\$2,139	5.35	0.62
.03110 445 4000	C.I.P. concrete forms, slab on grade, slab blockouts, wood, to 12" high, 1 use, includes erecting, stripping and cleaning	100.0	L.F.	16	\$619	\$98	\$0	\$717	7.17	0.21
.03310 240 4820	Structural concrete, in place, slab on grade 4"	545.0	S.F.	11	\$452	\$1,298	\$7	\$1,758	3.23	0.51
.03310 240 4820	Structural concrete, in place, slab on grade 6"	180.0	S.F.	4	\$171	\$490	\$2	\$664	3.69	0.19
.03310 240 4900	Structural concrete, in place, slab on grade 10"	2,208.0	S.F.	57	\$2,404	\$8,263	\$30	\$10,697	4.84	3.09
.07210 600 0700	Perimeter Insulation, polystyrene, expanded, 2" thick, R8	1,000.0	S.F.	12	\$694	\$503	\$0	\$1,198	1.20	0.35
.07260 100 0900	Building Paper, polyethylene vapor barrier, standard, .006" thick, 9' x 400' roll	39.0	Sq.	8	\$499	\$148	\$0	\$647	16.59	0.19
SUBTOTAL SOG - System				111				\$17,819		5.15
Interior Walls, Non-Load Bearing - System 04S										
.04810 172 1150	Concrete masonry unit (CMU), back-up, normal weight, tooled joint one side, 2000 psi, 8" x 8" x 16", includes joint reinforcing alternate courses, excludes scaffolding	1,200.0	S.F.	121	\$4,458	\$2,580	\$0	\$7,038	5.87	2.04
.04810 175 0100	Concrete masonry unit (CMU), bond beam, normal weight, 2000 psi, 8" x 8" x 16", excludes scaffolding, grout and vertical reinforcing	60.0	L.F.	4	\$156	\$129	\$0	\$285	4.75	0.08
.04810 186 1150	Concrete masonry unit (CMU), foundation wall, normal weight, hollow, 2000 psi, 8" x 8" x 16", includes trowel cut joints, 1/2" parging and alternate course joint reinforcing, excludes scaffolding	55.0	S.F.	5	\$195	\$195	\$0	\$389	7.08	0.11
SUBTOTAL Interior Walls, Non-Load Bearing - System				131				\$7,712		2.23
Exterior Walls - System 04U										
.04070 420 0350	Grout, concrete masonry unit (CMU) cores, 12" thick, 0.422 C.F./S.F., pumped, excludes blockwork	3,500.0	S.F.	175	\$6,287	\$7,144	\$1,191	\$14,622	4.18	4.23
.04080 200 0250	Truss type steel joint reinforcing, mill standard galvanized, 12" wide	53.0	C.L.F.	21	\$887	\$912	\$0	\$1,799	33.95	0.52
.04080 200 1200	Truss type steel joint reinforcing, mill standard galvanized, 8" wall, 9 ga. sides, 9 ga. ties	18.0	C.L.F.	6	\$240	\$285	\$0	\$525	29.19	0.15
.04810 175 0150	Concrete masonry unit (CMU), bond beam, normal weight, 2000 psi, 12" x 8" x 16", excludes scaffolding, grout and vertical reinforcing	281.0	L.F.	26	\$944	\$834	\$0	\$1,778	6.33	0.51

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Exterior Walls - System				04U						
.04810 182 6100	Split face or scored split face concrete masonry unit (CMU), 4" x 8" x 16", excludes scaffolding	373.0	S.F.	43	\$1,563	\$985	\$0	\$2,548	6.83	0.74
.04810 182 6250	Split face or scored split face concrete masonry unit (CMU), 12" x 8" x 16", excludes scaffolding	5,955.0	S.F.	1,060	\$37,601	\$38,897	\$0	\$76,498	12.85	22.13
.04810 186 1250	Concrete masonry unit (CMU), foundation wall, normal weight, hollow, 2000 psi, 12" x 8" x 16", includes trowel cut joints, 1/2" parging and alternate course joint reinforcing, excludes scaffolding	482.0	S.F.	80	\$2,840	\$2,492	\$0	\$5,333	11.06	1.54
SUBTOTAL Exterior Walls - System				1,411				\$103,103		29.82
Structural Steel/Steel Joists				05A						
.05120 260 5200	Column, structural tubing, heavy section, 5" to 6" W, incl shop primer, cap & base plate, bolts	2,600.0	Lb.	13	\$708	\$3,043	\$495	\$4,246	1.63	1.23
.05120 440 0450	Angle framing, structural steel, less than 4", field fabricated, incl cutting & welding	1,400.0	Lb.	127	\$7,640	\$972	\$610	\$9,221	6.59	2.67
.05120 480 2100	Lintel angle, structural, unpainted, 3-1/2"x3"x1/4" T, 4'-6" L	4.0	Ea.	1	\$67	\$90	\$0	\$157	39.33	0.05
.05120 640 2700	Structural steel member, 100-ton project, 1 to 2 story building, W16x26, A36 steel, shop fabricated, incl shop primer, bolted connections	60.0	L.F.	3	\$192	\$2,000	\$133	\$2,325	38.76	0.67
.05210 600 0140	Open web bar joist, 40-ton job lots, 10K1, 5.0 plf, spans up to 30', K series, shop fabricated, incl shop primer, horizontal bridging	143.0	L.F.	10	\$574	\$531	\$294	\$1,399	9.78	0.40
.052106000500'0	Open web bar joist, 40-ton job lots, 20K5, 8.2 plf, 30' to 50' spans, K series, shop fabricated, incl shop primer, horizontal bridging	624.0	L.F.	25	\$1,503	\$3,728	\$764	\$5,995	9.61	1.73
SUBTOTAL Structural Steel/Steel Joists				180				\$23,343		6.75
Miscellaneous Metals				05C						
.05514 500 0100	Ladder, steel, 20" W, bolted to concrete	27.0	V.L.F.	10	\$575	\$1,286	\$37	\$1,898	70.30	0.55
SUBTOTAL Miscellaneous Metals				10				\$1,898		0.55
Rough Carpentry				06A						
.06110 100 0200	Miscellaneous wood blocking, to steel construction	3.0	M.B.F.	133	\$5,409	\$2,184	\$0	\$7,593	2,531.09	2.20
.06160 800 0800	3/4" CDX plywood sheathing, on walls	1,122.0	S.F.	18	\$748	\$1,008	\$0	\$1,756	1.56	0.51
SUBTOTAL Rough Carpentry				151				\$9,349		2.70
Roofing				07B						
.048102500150	Precast concrete coping, stock units, 14" wall, 16" wide, 4" tapers to 3-1/2"	26.0	L.F.	7	\$248	\$499	\$0	\$747	28.71	0.22
.048102500800	Aluminum coping, stock units, for 12" wall	241.0	L.F.	48	\$1,722	\$3,591	\$0	\$5,313	22.04	1.54

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 0.00% Profit: 8.00% Overhead: 0.00% Bond: 0.00%

Cubic Footage: 35,470 Square Footage: 3,457

Project Number: W912KC-05-R-0001

Assemblies

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
<i>Roofing</i> 07B										
.048102500800	Aluminum coping, stock units, for 12" wall	241.0	L.F.	48	\$1,722	\$3,591	\$0	\$5,313	22.04	1.54
.05310 300 2600	Metal decking, steel, open type, wide rib, galvanized, under 50 Sq, 1-1/2" D, 20 ga	3,600.0	S.F.	29	\$1,862	\$6,320	\$98	\$8,279	2.30	2.39
.07220 700 1755	Roof Deck Insulation, polyisocyanurate	3,460.0	S.F.	28	\$1,413	\$3,531	\$0	\$4,944	1.43	1.43
.07220 700 1765	Roof Deck Insulation tapered for drainage	1,200.0	B.F.	7	\$343	\$621	\$0	\$963	0.80	0.28
.07510 700 0600	Felt, glass fibered, flashing membrane, #45	10.0	Sq.	5	\$181	\$333	\$0	\$514	51.44	0.15
.07530 800 4800	Single-Ply Membrane, ethylene propylene diene monomer (EPDM), 0.40 P.S.F., fully adhered with adhesive, 60 mils	35.0	Sq.	54	\$1,786	\$4,096	\$291	\$6,173	176.36	1.79
.077207001100	Roof Hatches, with curb, 1" fiberglass insulation, aluminum curb & cover, 4' x 4'	1.0	Ea.	4	\$191	\$864	\$0	\$1,055	1,054.62	0.31
.15160 500 3900	Drain, roof, flat metal deck, cast iron body, 12" cast iron dome, 4" pipe size	2.0	Ea.	2	\$114	\$484	\$0	\$599	299.38	0.17
SUBTOTAL Roofing				232				\$33,899		9.81
<i>Hollow Metal Doors/Windows</i> 08A										
.08110 200 1760	Doors, commercial, steel, insulated, full panel, 18 ga., 3'-0" x 7'-0" x 1-3/4" thick	3.0	Ea.	3	\$143	\$784	\$0	\$927	308.90	0.27
.08110 250 0100	Door frames, steel channels with anchors and bar stops, 6" channel@ 8.2 lb/LF, 3' x 7' door, weighs 150 lb	3.0	Ea.	7	\$378	\$453	\$27	\$858	285.97	0.25
.08410 120 2100	Doors, aluminum, commercial entrance, medium stile, standard hardware, single, 3'-0" x 7'-0", incl. hinges, push/pull, deadlock, cylinder, threshold, excl. glazing	3.0	Ea.	16	\$698	\$2,327	\$0	\$3,025	1,008.35	0.88
SUBTOTAL Hollow Metal Doors/Windows				27				\$4,810		1.39
<i>Special Doors...Garage, Folding, Overhead</i> 08C										
.08110 250 0700	Door frames, steel channels with anchors and bar stops, 12" channel@ 20.7 lb/LF, 19' x 16' door	2.0	Ea.	20	\$1,089	\$4,899	\$82	\$6,069	3,034.58	1.76
.08360 550 2700	Doors, overhead, commercial, stock, steel, heavy duty, sectional, manua	2.0	Ea.	24	\$1,089	\$4,246	\$0	\$5,334	2,667.17	1.54
.08360 550 2860	Doors, overhead, commercial, stock, steel, heavy duty, sectional, for 1-1/4" rigid insulation and 26 gauge galvanized back panel, add	632.0	S.F.		\$0	\$1,797	\$0	\$1,797	2.84	0.52
.08360 550 2950	Doors, overhead, commercial, stock, steel, heavy duty, sectional, for electric trolley operator	2.0	Ea.	16	\$719	\$2,313	\$0	\$3,032	1,515.93	0.88
SUBTOTAL Special Doors...Garage, Folding, Overhead				60				\$16,233		4.70

GENERAL CONTRACTOR ADJUSTMENTS

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Cubic Footage: 35,470 Square Footage: 3,457

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Assemblies

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
Glazing										
.08810 260 1700	Float Glass, tinted, 3/8" thick	50.0	S.F.	11	\$452	\$687	\$0	\$1,140	22.79	0.33
SUBTOTAL Glazing				11				\$1,140		0.33
Hardware										
.08710 150 2600	Door hardware, school, single, interior, heavy use, incl. lever and closer	3.0	Door		\$0	\$1,694	\$0	\$1,694	564.73	0.49
SUBTOTAL Hardware								\$1,694		0.49
Drywall										
.09205 530 1200	Furring, walls, on steel, galv., 7/8" channels, 16" O.C.	640.0	S.F.	19	\$723	\$174	\$0	\$897	1.40	0.26
.09250 700 0390	Gypsum wallboard, on walls, standard, w/compound skim coat (level 5 finish), 1/2" thick	640.0	S.F.	13	\$531	\$322	\$0	\$853	1.33	0.25
.09260 100 3800	Partition Wall, interior, standard, taped, installed on & incl. 25 ga, NLB metal studs, 3 5/8" wide, 16" O.C., 8' to 12' high, 5/8" gypsum drywall one	1,122.0	S.F.	53	\$2,122	\$1,359	\$0	\$3,481	3.10	1.01
SUBTOTAL Drywall				85				\$5,232		1.51
Acoustical										
.09510 700 1115	Suspended Acoustic Ceiling Tiles, mineral Fiber Tile, lay-in, rough texture, 2' x 2' or 2' x 4', 5/8" thick	192.0	S.F.	2	\$99	\$371	\$0	\$470	2.45	0.14
SUBTOTAL Acoustical				2				\$470		0.14
Ceramic Tile, Quarry Tile, Special Flooring										
.09310 100 0700	Ceramic tile, cove base, thin set, 4-1/4" x 4-1/4"	80.0	L.F.	10	\$358	\$341	\$0	\$699	8.74	0.20
.09310 100 3310	Ceramic tile, floors, glazed, porcelain type, thin set, 1 color, color group 2, 2" x 2" or 2" x 1"	192.0	S.F.	16	\$580	\$1,063	\$0	\$1,643	8.56	0.48
.09310 100 5400	Ceramic tile, walls, interior, thin set, 4-1/4" x 4-1/4"	320.0	S.F.	27	\$967	\$923	\$0	\$1,890	5.91	0.55
SUBTOTAL Ceramic Tile, Quarry Tile, Special Flooring				53				\$4,232		1.22
Resilient and Wood Flooring										
.09651 200 1500	Cove base, rubber or vinyl, standard colors, 1/8" thick, 4" h	382.0	L.F.	10	\$395	\$312	\$0	\$707	1.85	0.20
SUBTOTAL Resilient and Wood Flooring				10				\$707		0.20
Painting and Wall Covering										
.03060 100 1620	Concrete surface treatment, sealer, hardener and dustproof, colors, 450 S.F, includes material only, minimum	9.0	Gal.	5	\$184	\$210	\$6	\$400	44.43	0.12

GENERAL CONTRACTOR ADJUSTMENTS

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Cubic Footage: 35,470 Square Footage: 3,457

Project Number: W912KC-05-R-0001

Assemblies

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
<i>Painting and Wall Covering</i> 09H										
.09910 300 0190	Paints & Coatings, ext. doors, flush, both sides, roll & brush, primer + 2 coats, exterior latex, incl. frame & trim	3.0	Ea.	5	\$178	\$48	\$0	\$225	75.12	0.07
.09910 920 1240	Paints & Coatings, ceilings, interior, 3 coats	3,055.0	S.F.	37	\$2,058	\$540	\$0	\$2,598	0.85	0.75
.09910 920 1280	Paints & Coatings, walls & ceilings, interior, concrete, drywall or plaster, oil base, 3 coats, smooth finish, spray	640.0	S.F.	3	\$122	\$96	\$0	\$218	0.34	0.06
.09910 920 2880	Paints & Coatings, walls & ceilings, interior, masonry or concrete block, oil base, 2 coats, smooth finish, spray	8,053.0	S.F.	48	\$1,644	\$1,425	\$0	\$3,068	0.38	0.89
.09910 920 4000	Paints & Coatings, walls & ceilings, interior, masonry or concrete block, block filler, 1 coat, brushwork	1,036.0	S.F.	20	\$719	\$155	\$0	\$874	0.84	0.25
SUBTOTAL <i>Painting and Wall Covering</i>				117				\$7,384		2.14
<i>Toilet Accessories</i> 10A										
.10170 100 1050	Toilet cubicles, floor & ceiling anchored	1.0	Ea.	3	\$147	\$1,255	\$0	\$1,402	1,402.23	0.41
.10180 100 5700	Partitions, toilet, urinal screen, floor mounted, pilaster, flush,	1.0	Ea.	2	\$74	\$934	\$0	\$1,008	1,008.03	0.29
.10810 100 0610	Bath accessories, dispenser units, towel dispenser & waste receptacle, 18 gallon capacity	2.0	Ea.	2	\$74	\$745	\$0	\$818	409.21	0.24
.10810 100 1300	Bath accessories, grab bars, straight, satin finish, 2 1/2" dia x 36" long	2.0	Ea.	1	\$37	\$150	\$0	\$187	93.37	0.05
.10810 100 1310	Bath accessories, grab bars, straight, satin finish, 2 1/2" diameter x 42" long	2.0	Ea.	1	\$41	\$139	\$0	\$180	89.89	0.05
.10810 100 3300	Bath accessories, mirror, , with sst 3/4" square frame	2.0	Ea.	3	\$123	\$570	\$0	\$693	346.47	0.20
.10810 100 4400	Bath accessories, robe hook, heavy duty, concealed mounting	2.0	Ea.	0	\$20	\$31	\$0	\$52	25.92	0.01
.10810 100 4600	Bath accessories, soap dispenser, chrome, surface mounted, liquid	2.0	Ea.	1	\$37	\$120	\$0	\$157	78.36	0.05
.10810 100 6200	Bath accessories, toilet tissue dispenser, stainless steel, surface mounted, double roll	2.0	Ea.	1	\$31	\$45	\$0	\$76	37.85	0.02
SUBTOTAL <i>Toilet Accessories</i>				13				\$4,572		1.32
<i>Special Construction</i> 13A										
.01590 400 1525	Telephone system	1.0	LS	0	\$0	\$0	\$1,905	\$1,905	1,905.12	0.55
.01590 400 1525	Fire Detection system	1.0	LS	0	\$0	\$0	\$1,361	\$1,361	1,360.80	0.39
.13720 065 4000	Detection Systems, fire alarm control panel, 12 zone, excl. wires & conduit	1.0	Ea.	24	\$1,306	\$2,654	\$0	\$3,960	3,959.93	1.15

GENERAL CONTRACTOR ADJUSTMENTS

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Cubic Footage: 35,470 Square Footage: 3,457

Project Number:

W912KC-05-R-0001

Assemblies

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF	
Special Construction		13A									
.167107500180	Voice/Data outlets, one jack & one twinaxial opening, excl voice/data devices	15.0	Ea.	3	\$123	\$174	\$0	\$297	19.80	0.09	
.167107502300	Telephone cable, telephone twisted, PVC insulation, #22-4 conductor	5.0	C.L.F.	5	\$248	\$89	\$0	\$337	67.50	0.10	
.167107502370	Telephone jack, eight pins	10.0	Ea.	3	\$124	\$118	\$0	\$242	24.22	0.07	
.168208402020	Paging	1.0	Ea.	4	\$199	\$1,306	\$0	\$1,505	1,505.04	0.44	
SUBTOTAL Special Construction				38				\$9,608		2.78	
Plumbing		15A									
.07720 500 0100	Roof Vents, mushroom for built-up roofs, PVC, 6" high	4.0	Ea.	1	\$45	\$155	\$0	\$200	49.94	0.06	
.15107 420 1140	Pipe, copper, tubing, solder, 1/2" diameter, type K, includes coupling & clevis hanger 10' O.C.	105.0	L.F.	11	\$552	\$191	\$0	\$743	7.08	0.21	
.15107 420 1180	Pipe, copper, tubing, solder, 3/4" diameter, type K, includes coupling & clevis hanger 10' O.C.	30.0	L.F.	3	\$166	\$85	\$0	\$251	8.36	0.07	
.15107 420 1200	Pipe, copper, tubing, solder, 1" diameter, type K, includes coupling & clevis hanger 10' O.C.	55.0	L.F.	7	\$341	\$200	\$0	\$541	9.84	0.16	
.15107 420 1240	Pipe, copper, tubing, solder, 1-1/2" diameter, type K, includes coupling & clevis hanger 10' O.C.	85.0	L.F.	14	\$700	\$485	\$0	\$1,184	13.93	0.34	
.151073202120	Pipe, cast iron soil, one hub, service weight, 2" diameter, lead and oakum joints 10' OC, includes hangers 5' O.C.	140.0	L.F.	36	\$1,638	\$1,048	\$0	\$2,686	19.19	0.78	
.151073202140	Pipe, cast iron soil, one hub, service weight, 3" diameter, lead and oakum joints 10' OC, includes hangers 5' O.C.	20.0	L.F.	5	\$246	\$208	\$0	\$455	22.73	0.13	
.151073202160	Pipe, cast iron soil, one hub, service weight, 4" diameter, lead and oakum joints 10' OC, includes hangers 5' O.C.	72.0	L.F.	21	\$965	\$960	\$0	\$1,925	26.74	0.56	
.151073202200	Pipe, cast iron soil, one hub, service weight, 6" diameter, lead and oakum joints 10' OC, includes hangers 5' O.C.	55.0	L.F.	18	\$864	\$1,220	\$0	\$2,084	37.90	0.60	
.151074201380	Pipe, copper, tubing, solder, 8" diameter, type K, includes coupling & clevis hanger 10' O.C.	25.0	L.F.	18	\$833	\$5,001	\$0	\$5,834	233.38	1.69	
.151076200580	Pipe, steel, black, threaded, 1" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	36.0	L.F.	5	\$279	\$118	\$0	\$397	11.02	0.11	
.151076200600	Pipe, steel, black, threaded, 1-1/2" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	130.0	L.F.	26	\$1,203	\$589	\$0	\$1,792	13.78	0.52	
.15140 100 1420	Backflow preventer, double check principle, corrosion resistant, automatic operation, OS&Y valves, flanged, , includes valves and four test cocks	1.0	Ea.	8	\$382	\$2,041	\$0	\$2,424	2,423.58	0.70	
.15150 200 0140	Cleanout, floor type, round or square, scoriated nickel bronze top, 4" pipe size	2.0	Ea.	3	\$137	\$359	\$0	\$497	248.35	0.14	

GENERAL CONTRACTOR ADJUSTMENTS

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Cubic Footage: 35,470 Square Footage: 3,457

Project Number:

W912KC-05-R-0001

Assemblies

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF	
<i>Plumbing</i>		15A									
.15150 200 0180	Cleanout, floor type, round or square, scoriated nickel bronze top, 6" pipe size	4.0	Ea.	11	\$493	\$914	\$0	\$1,407	351.77	0.41	
.15410 300 0972	Faucets/fitings, flush valve, automatic flush sensor and operator for urinals or waterclosets	2.0	Ea.	3	\$154	\$1,061	\$0	\$1,215	607.60	0.35	
.15410 300 2450	Faucets/fitings, lavatory faucet, concealed with pop-up drain, 12" centers	2.0	Ea.	1	\$51	\$310	\$0	\$361	180.71	0.10	
.15411 700 3120	Urinal, wall hung, vitreous china, with hanger & self-closing valve, blowout type	1.0	Ea.	5	\$246	\$497	\$0	\$743	743.00	0.21	
.15411 700 3300	Urinal, wall hung, rough-in, supply, waste and vent	1.0	Ea.	6	\$261	\$147	\$0	\$408	408.24	0.12	
.15413 900 0160	Water cooler, wall mounted, non-recessed, barrier free, sensor operated, 8 GPH	1.0	Ea.	4	\$185	\$993	\$0	\$1,178	1,178.45	0.34	
.15413 900 9800	Water cooler, for supply, waste and vent, all coolers	1.0	Ea.	4	\$185	\$67	\$0	\$252	252.43	0.07	
.15418 450 6720	Lavatory, wall hung, vitreous china, white, hospital type, patient, corner, side deck and back, 26" x 20", excludes trim (see 15410-300)	1.0	Ea.	2	\$105	\$599	\$0	\$704	704.21	0.20	
.15418 450 6960	Lavatory, wall hung, rough-in, supply, waste and vent	1.0	Ea.	10	\$449	\$352	\$0	\$802	801.51	0.23	
.15418 900 3160	Water closet, bowl only, wall hung, hospital type, slotted rim for bed pan, elongated bowl, includes flush valve and seat	1.0	Ea.	3	\$127	\$572	\$0	\$699	698.77	0.20	
.15418 900 3200	Water closet, bowl only, wall hung, hospital type, slotted rim for bed pan, rough-in, supply, waste and vent	1.0	Ea.	6	\$288	\$442	\$0	\$731	730.75	0.21	
.154802001000	Water heater, residential, electric, glass lined tank, single element, 5 year, 10 gallon	1.0	Ea.	3	\$178	\$336	\$0	\$514	514.38	0.15	
SUBTOTAL Plumbing				233		\$30,028			8.69		
<i>Fire Protection</i>		15B									
.13910 400 7160	Standpipe connections, wall, with plugs & chains, single, flush, brass, 2-1/2" x 2-1/2"	1.0	Ea.	3	\$150	\$123	\$0	\$273	272.84	0.08	
.13930 400 1220	Sprinkler System Components, alarm, water motor, complete with gong	1.0	Ea.	2	\$104	\$263	\$0	\$367	366.74	0.11	
.13930 400 3730	Sprinkler System Components, sprinkler heads, standard spray, pendent or upright, brass, 135 to 286 degrees F, 1/2" NPT, 7/16" orifice, excl. supply piping	24.0	Ea.	12	\$624	\$225	\$0	\$849	35.38	0.25	
.13930 400 6280	Sprinkler System Valve Alarm, 4" size, incl. retard chamber, trim, gauges & alarm line strainer	1.0	Ea.	8	\$374	\$1,198	\$0	\$1,572	1,571.72	0.45	
.13930 400 6520	Sprinkler System Components, valves, check, swing, cast iron body, brass fittings, auto. ball drip, 4" size	1.0	Ea.	5	\$249	\$227	\$0	\$476	476.28	0.14	
.13930 400 6540	Sprinkler System Components, valves, check, swing, cast iron body, brass fittings, auto. ball drip, 6" size	1.0	Ea.	8	\$396	\$422	\$0	\$818	817.84	0.24	

GENERAL CONTRACTOR ADJUSTMENTS

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Assemblies

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<i>Fire Protection</i>		15B									
.13930 400 8240	Sprinkler System Components, valves, dry pipe, 6" size, incl. trim & gauges	1.0	Ea.	16	\$796	\$2,143	\$0	\$2,939	2,939.33	0.85	
.15107 620 0580	Pipe, steel, black, threaded, 1" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	96.0	L.F.	14	\$745	\$314	\$0	\$1,058	11.02	0.31	
.15107 620 0590	Pipe, steel, black, threaded, 1-1/4" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	49.0	L.F.	9	\$407	\$195	\$0	\$601	12.27	0.17	
.15107 620 0600	Pipe, steel, black, threaded, 1-1/2" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	58.0	L.F.	12	\$537	\$263	\$0	\$800	13.78	0.23	
.15107 620 0610	Pipe, steel, black, threaded, 2" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	16.0	L.F.	4	\$184	\$93	\$0	\$277	17.34	0.08	
.15107 620 0620	Pipe, steel, black, threaded, 2-1/2" diameter, schedule 40, Spec. A-53, includes coupling and clevis type hanger sized for covering, 10' OC	23.0	L.F.	7	\$340	\$228	\$0	\$568	24.70	0.16	
.15107 620 3360	Pipe, steel, black, flanged, weld neck, 150 lb., 4" diameter, schedule 40, Spec. A-53, includes flange set, yoke & roll hangers, sized for covering, 10' OC	6.0	L.F.	4	\$171	\$156	\$28	\$355	59.25	0.10	
.15107 620 3380	Pipe, steel, black, flanged, weld neck, 150 lb., 6" diameter, schedule 40, Spec. A-53, includes flange set, yoke & roll hangers, sized for covering, 10' OC	10.0	L.F.	10	\$456	\$401	\$49	\$906	90.60	0.26	
.15107 640 5100	Elbow, 90 Deg., steel, malleable iron, black, straight, threaded, 150 lb., 1"	5.0	Ea.	3	\$160	\$22	\$0	\$182	36.36	0.05	
.15107 640 5120	Elbow, 90 Deg., steel, malleable iron, black, straight, threaded, 150 lb., 1-1/2"	1.0	Ea.	1	\$37	\$9	\$0	\$46	46.20	0.01	
.15107 640 5510	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1"	5.0	Ea.	5	\$255	\$31	\$0	\$286	57.15	0.08	
.15107 640 5520	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1-1/4"	5.0	Ea.	6	\$262	\$55	\$0	\$317	63.48	0.09	
.15107 640 5530	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 1-1/2"	10.0	Ea.	12	\$572	\$138	\$0	\$710	70.97	0.21	
.15107 640 5540	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 2"	1.0	Ea.	1	\$67	\$23	\$0	\$91	90.83	0.03	
.15107 640 5550	Tee, steel, malleable iron, black, straight, threaded, 150 lb., 2-1/2"	2.0	Ea.	4	\$165	\$101	\$0	\$265	132.68	0.08	
.15107 660 0130	Elbow, 90 Deg., steel, cast iron, black, straight, flanged, standard weight, 6" pipe size, add 1 gasket and bolt set (material only) for each joint, includes make-up labor, excludes gasket & bolt sets	2.0	Ea.	5	\$254	\$661	\$0	\$916	457.91	0.26	
.15107 660 0410	Tee, steel, cast iron, black, straight, flanged, standard weight, 5" pipe size, add 1 gasket and bolt set (material only) for each joint, includes make-up labor, excludes gasket & bolt sets	1.0	Ea.	4	\$185	\$674	\$0	\$859	858.66	0.25	
.15107 660 0420	Tee, steel, cast iron, black, straight, flanged, standard weight, 6" pipe size, add 1 gasket and bolt set (material only) for each joint, includes make-up labor, excludes gasket & bolt sets	1.0	Ea.	4	\$192	\$469	\$0	\$661	661.35	0.19	
.15107 660 0690	Gasket and bolt set, for flanges, 150 lb., 6" pipe size	1.0	Ea.	1	\$69	\$22	\$0	\$90	90.43	0.03	
.15110 160 1910	Valves, bronze, check, swing, regrinding disc, threaded, class 150, 2-1/2"	1.0	Ea.	1	\$49	\$321	\$0	\$370	370.14	0.11	

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 0.00% Profit: 8.00% Overhead: 0.00% Bond: 0.00%

Cubic Footage: 35,470 Square Footage: 3,457

Project Number: W912KC-05-R-0001

Assemblies

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF	
Fire Protection		15B									
.15110 160 3450	Valves, bronze, gate, non-rising stem, threaded, class 150, 1"	1.0	Ea.	0	\$22	\$58	\$0	\$79	79.33	0.02	
.15110 200 3680	Valves, iron body, gate, OS&Y, flanged, 125 lb., 4"	1.0	Ea.	5	\$246	\$599	\$0	\$845	845.06	0.24	
.15110 200 3700	Valves, iron body, gate, OS&Y, flanged, 125 lb., 6"	1.0	Ea.	8	\$382	\$987	\$0	\$1,369	1,368.96	0.40	
.15140 100 1220	Backflow preventer, double check principle, corrosion resistant, automatic operation, gate valves, flanged, 4" pipe size, includes valves and four test cocks	1.0	Ea.	5	\$246	\$2,892	\$0	\$3,138	3,138.00	0.91	
SUBTOTAL Fire Protection				181				\$22,085		6.39	
HVAC		15C									
.114545003900	Heater, residential appliances, electric, built-in, wall type, w/blower, 15,000 watt	2.0	Ea.	4	\$210	\$342	\$0	\$553	276.39	0.16	
.15080 200 3170	Insulation, ductwork, blanket type, fiberglass, flexible, FRK vapor barrier wrap, .75 lb. density, 1-1/2" thick	250.0	S.F.	13	\$524	\$139	\$0	\$663	2.65	0.19	
.157306001090	Rooftop air conditioner, single zone, electric cool, gas heat, 1 ton cooling, 55 MBH heating, includes, standard controls, curb and economizer	1.0	Ea.	17	\$782	\$3,266	\$0	\$4,048	4,048.38	1.17	
.157606001255	Radiant heaters	55.0	L.F.	28	\$1,254	\$2,560	\$0	\$3,813	69.33	1.10	
.157606001301	Radiant heaters, rough in with supply and balance valves	2.0	Ea.	18	\$898	\$392	\$0	\$1,290	645.02	0.37	
.15810 100 0560	Ductwork, fabricated rectangular, galvanized steel, 1000 to 2000 lb., includes fittings, joints, supports and allowance for a flexible connection, excludes insulation	400.0	Lb.	36	\$1,671	\$223	\$0	\$1,894	4.74	0.55	
.15820 300 7544	Duct accessories, variable volume modulating motorized damper, 24", includes electric motor	3.0	Ea.	3	\$149	\$555	\$0	\$704	234.74	0.20	
.15820 300 7562	Duct accessories, variable volume modulating motorized damper, 36", includes electric motor	2.0	Ea.	2	\$113	\$419	\$0	\$532	266.04	0.15	
.158301007700	Fans, utility set, steel construction, pedestal, V-belt drive, drive cover, 1/4" S.P., three phase, 800 CFM, 1/4 H.P.	1.0	Ea.	3	\$151	\$646	\$0	\$797	797.43	0.23	
.158301007820	Fans, utility set, steel construction, pedestal, V-belt drive, drive cover, 1/4" S.P., three phase, 6700 CFM, 1-1/2 H.P.	1.0	Ea.	7	\$305	\$1,939	\$0	\$2,244	2,243.96	0.65	
.15850 500 1000	Grille, aluminum, air return, 6" x 6"	6.0	Ea.	2	\$91	\$109	\$0	\$201	33.48	0.06	
.15850 500 1260	Grille, aluminum, air return	2.0	Ea.	1	\$52	\$182	\$0	\$235	117.30	0.07	
.15850 600 3500	Louver, aluminum, extruded, with screen, mill finish, fixed blade, for damper to use with above, add	5.0									
.15955 100 2000	Balancing, air conditioning equipment, central station, (Subcontractor's quote including material & labor)	2.0	Ea.	0	\$0	\$0	\$1,905	\$1,905	952.56	0.55	

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 0.00% Profit: 8.00% Overhead: 0.00% Bond: 0.00%

Cubic Footage: 35,470 Square Footage: 3,457

Project Number: W912KC-05-R-0001

Assemblies

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
HVAC										
	SUBTOTAL HVAC			133				\$18,880		5.46
Electrical - Power										
.16060 800 0100	. Grounding rod, copper clad, 10' long, 3/4" diameter	1.0	Ea.	2	\$90	\$57	\$0	\$147	146.97	0.04
.16060 800 0700	. Ground wire, copper wire, bare stranded,	0.5	C.L.F.	1	\$50	\$54	\$0	\$104	208.20	0.03
.16120 900 0100	. Wire, copper, stranded, 600 volt, #12, type THW, in raceway	3.0	C.L.F.	2	\$108	\$29	\$0	\$137	45.65	0.04
.16120 900 0120	. Wire, copper, stranded, 600 volt, #10, type THW, in raceway	2.0	C.L.F.	2	\$79	\$29	\$0	\$108	53.89	0.03
.16120 900 0180	. Wire, copper, stranded, 600 volt, #4, type THW, in raceway	0.8	C.L.F.	1	\$56	\$43	\$0	\$100	132.68	0.03
.16120 900 0180	. Wire, copper, stranded, 600 volt, #4, type THW, in raceway	2.0	C.L.F.	3	\$150	\$116	\$0	\$265	132.68	0.08
.16120 900 0300	. Wire, copper, stranded, 600 volt, 3/0, type THW, in raceway	1.0	C.L.F.	3	\$158	\$207	\$0	\$365	364.69	0.11
.161209000500	. Wire, copper, stranded, 600 volt, 600 kcmil, type THW, in raceway	1.5	C.L.F.	9	\$455	\$1,112	\$0	\$1,568	1,045.09	0.45
.16132 210 0220	. Electric metallic tubing, 3/4" diameter, to 15' high, incl couplings only	340.0	L.F.	11	\$532	\$291	\$0	\$824	2.42	0.24
.16132 210 0600	. Rigid galvanized steel conduit, 2" diameter, to 15' high, incl couplings only	100.0	L.F.	12	\$608	\$864	\$0	\$1,472	14.72	0.43
.161322100680	. Rigid galvanized steel conduit, 4" diameter, to 15' high, incl couplings only	50.0	L.F.	15	\$759	\$1,361	\$0	\$2,119	42.39	0.61
.161366000020	. Outlet boxes, pressed steel, 4" octagon	50.0	Ea.	20	\$987	\$140	\$0	\$1,127	22.53	0.33
.16140 910 2470	. Duplex receptacle, grounded, 120 volt, 20 amp	32.0	Ea.	9	\$468	\$427	\$0	\$895	27.96	0.26
.16140 910 2482	. Duplex receptacle, ground fault interrupting, 20 amp	6.0	Ea.	2	\$88	\$347	\$0	\$435	72.46	0.13
.16140 910 4920	. Receptacle cover plate, stainless steel, NEMA 5 & 6	45.0	Ea.	5	\$222	\$150	\$0	\$372	8.27	0.11
.162703101830	. Isolation transformer, 3 phase 120/240 V primary 120/208 V secondary, 112.5 kVA	1.0	Ea.	22	\$1,082	\$11,295	\$278	\$12,654	12,654.08	3.66
.16410 800 0100	. Safety switches, general duty, 3 pole, fusible, 240 volt, 30 amp, NEMA 1	3.0	Ea.	8	\$371	\$425	\$0	\$796	265.36	0.23
.16410 800 0200	. Safety switches, general duty, 3 pole, fusible, 240 volt, 60 amp, NEMA 1	1.0	Ea.	3	\$171	\$240	\$0	\$411	410.96	0.12

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 0.00% Profit: 8.00% Overhead: 0.00% Bond: 0.00%

Cubic Footage: 35,470 Square Footage: 3,457

Project Number: W912KC-05-R-0001

Assemblies

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF	
<i>Electrical - Power</i> 16B											
.16410 800 9010	. Disconnect switch, 3 pole fusible, 30 amp, to 10 HP motor, 600 volt	3.0	Ea.	8	\$371	\$1,225	\$0	\$1,596	532.07	0.46	
.16410 800 9050	. Disconnect switch, 3 pole fusible, 60 amp, to 30 HP motor, 600 volt	1.0	Ea.	3	\$171	\$946	\$0	\$1,117	1,117.22	0.32	
.16440 720 2250	. Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 225 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.0	Ea.	29	\$1,395	\$3,266	\$0	\$4,661	4,660.74	1.35	
.16440 720 2300	. Panelboards, 3 phase 4 wire, main circuit breaker, 120/208 V, 400 amp, 42 circuits, NQOD, incl 20 A 1 pole plug-in breakers	1.0	Ea.	33	\$1,667	\$4,457	\$0	\$6,124	6,123.60	1.77	
.16440 820 0420	. Circuit breaker, 3 pole, 480 V, 70 to 225 amp, KA frame, for feeder section	1.0	Ea.	3	\$124	\$1,599	\$0	\$1,723	1,722.77	0.50	
SUBTOTAL Electrical - Power				206				\$39,119	11.32		
<i>Electrical - Fixtures</i> 16C											
.16120 900 0100	. Wire, copper, stranded, 600 volt, #12, type THW, in raceway	20.0	C.L.F.	15	\$721	\$192	\$0	\$913	45.65	0.26	
.16132 210 0500	. Rigid galvanized steel conduit, 1/2" diameter, to 15' high, incl couplings only	585.0	L.F.	32	\$1,584	\$1,290	\$0	\$2,874	4.91	0.83	
.161366000020	. Outlet boxes, pressed steel, 4" octagon	15.0	Ea.	6	\$296	\$42	\$0	\$338	22.53	0.10	
.16140 500 3800	. Flush switch, standard	12.0	Ea.	2	\$119	\$206	\$0	\$325	27.08	0.09	
.16140 910 2600	. Wall plates, stainless steel, 1 gang	12.0	Ea.	1	\$59	\$41	\$0	\$100	8.36	0.03	
.16510 440 0300	. Fluorescent fixture, interior, acryl lens, grid recess ceiling mounted, 2-U40 W, 2' W x 2' L, incl lamps, mounting hardware and connections	6.0	Ea.	8	\$416	\$547	\$0	\$963	160.57	0.28	
.16510 440 0700	. Fluorescent fixture, interior, acryl lens, grid recess ceiling mounted, 4-40 W, 2' W x 4' L, incl lamps, mounting hardware and connections	4.0	Ea.	10	\$495	\$2,177	\$0	\$2,673	668.15	0.77	
.165104404270	. Metal halide fixture, interior, integral ballast, prismatic glass lens, surface mounted, 400 W, 2' W x 2' L, incl lamps, mounting hardware and connections	8.0	Ea.	27	\$1,317	\$4,790	\$0	\$6,107	763.41	1.77	
.16520 300 1180	. Metal halide fixture, exterior, wall pack, 175 Watt, incl lamps	11.0	Ea.	22	\$1,093	\$5,314	\$0	\$6,407	582.42	1.85	
.16530 320 0240	. Exit sign, L.E.D. w/ battery unit, single face, ceiling or wall mount	2.0	Ea.	4	\$180	\$397	\$0	\$577	288.49	0.17	
.16530 320 0700	. Emergency light units, nickel cadmium battery operated, twin sealed beam light, 25 W, 6 V each	8.0	Ea.	16	\$795	\$7,675	\$0	\$8,470	1,058.70	2.45	
SUBTOTAL Electrical - Fixtures				143				\$29,747	8.60		
SUBTOTAL								\$838,343	242.51		
SUBTOTAL								\$838,343	242.51		

GENERAL CONTRACTOR ADJUSTMENTS

Contingency: 0.00% Profit: 8.00% Overhead: 0.00% Bond: 0.00%

Cubic Footage: 35,470 Square Footage: 3,457

Project Number: W912KC-05-R-0001

Assemblies

CSI Number	Description	Quantity	Unit	Man Hour	Total Labor	Total Material	Total Equip. or Sub. Quote	Total	\$/Unit	\$/SF
ESTIMATE GRAND TOTAL								\$838,343		242.51