

CLASS A COST ESTIMATE								DATE :9/28/01	
CLIENT: National Park Service				ADDRESS: 100 Alabama Street, SW Building 1924 Atlanta, GA. 30303					
PROJECT NAME & LOCATION: TIMUCUAN ECOLOGICAL AND HISTORIC PRESERVE AND CASTILLO de SAN MARCOS NATIONAL MONUMENT JACKSONVILLE, FL									
CONTRACT NUMBER: 509098009.00		ORDER NO. D5260010271		HEI PROJECT NO.: 01132.00		GOVERNMENT'S TOTAL CONTRACT PRICE: \$400,000			
LINE NO.	DESCRIPTION OF ITEM	ITEM QUANTITY		BARE MATERIAL		BARE LABOR		FACTORED COSTS	TOTAL COST PER ITEM
		NO. OF UNITS	UNIT MEAS.	PER UNIT	TOTAL AMOUNT	PER UNIT	TOTAL AMOUNT		
CURATORIAL/ARCHIVAL MANAGEMENT FACILITY									
A. Division 2 - Site Work									
1.00	Site Clearing and Grubbing	1	LS	\$0.00	\$0	\$2,500.00	\$2,500	\$1,250	\$3,750
2.00	Demolition (Bldg & Pad)	1	LS	\$0.00	\$0	\$2,100.00	\$2,100	\$1,050	\$3,150
3.00	Earthwork	7,500	SF	\$0.00	\$0	\$0.40	\$3,000	\$1,500	\$4,500
4.00	Asphalt pavement	65	SY	\$20.00	\$1,300	\$6.50	\$423	\$496	\$2,218
5.00	Sidewalks and pads	200	SF	\$4.00	\$800	\$1.25	\$250	\$300	\$1,350
6.00	4" Dia PVC S.S.	168	LF	\$1.54	\$259	\$3.56	\$598	\$356	\$1,212
7.00	1" Domestic Water Line	60	LF	\$2.54	\$152	\$6.08	\$365	\$216	\$733
8.00	4" Dia PVC Water Line	60	LF	\$4.74	\$284	\$13.84	\$830	\$477	\$1,592
9.00	Infiltrator Drain Field	10	EA	\$25.00	\$250	\$18.50	\$185	\$147	\$582
10.00	Cleanouts	2	EA	\$12.00	\$24	\$25.00	\$50	\$30	\$104
11.00	Septic Tank	1	EA	\$500.00	\$500	\$500.00	\$500	\$360	\$1,360
12.00	Sediment and Erosion Control	350	LF	\$2.00	\$700	\$1.00	\$350	\$328	\$1,378
13.00	4" Exterior back-flow preventer	1	EA	\$3,000.00	\$3,000	\$1,000.00	\$1,000	\$1,157	\$5,157
TOTAL - Site Work									\$27,088
B. Division 3 - Concrete									
1.00	Forms	708	LF	\$2.40	\$1,699	\$2.35	\$1,664	\$1,204	\$4,567
2.00	Footings	24	CY	\$70.50	\$1,692	\$14.92	\$358	\$550	\$2,600
3.00	Wall Forms	636	LF	\$2.31	\$1,469	\$4.55	\$2,894	\$1,769	\$6,132
4.00	Wall Concrete	80	CY	\$70.50	\$5,640	\$14.92	\$1,194	\$1,832	\$8,666
5.00	Floor Slab on Grade	59	CY	\$76.77	\$4,529	\$34.42	\$2,031	\$2,007	\$8,568
6.00	Concrete Floor Hardener	3,570	SF	\$0.25	\$893	\$0.30	\$1,071	\$731	\$2,694
TOTAL - Concrete									\$33,226
C. Division 4 - Masonry									
1.00	Concrete Unit Masonry	2,640	SF	\$4.43	\$11,695	\$3.65	\$9,636	\$7,379	\$28,710
7.00	Autoclaved Aerated Concrete	1,965	SF	\$1.85	\$3,635	\$1.80	\$3,537	\$2,565	\$9,737
TOTAL - Masonry									\$38,447

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D. Division 5 - Metals									
1.00	Columns	2	EA	\$140.00	\$280	\$57.00	\$114	\$118	\$512
2.00	Tube Beams	3	EA	\$335.00	\$1,005	\$57.00	\$171	\$306	\$1,482
3.00	Roof Trusses	160	EA	\$112.00	\$17,920	\$58.50	\$9,360	\$8,604	\$35,884
4.00	Soffit Framing	280	LF	\$0.52	\$146	\$0.87	\$244	\$154	\$543
5.00	Metal Studs	256	LF	\$3.28	\$840	\$4.44	\$1,137	\$752	\$2,729
6.00	Misc. Metals	1	LS	\$1,000.00	\$1,000	\$1,000.00	\$1,000	\$719	\$2,719
TOTAL - Metals									\$43,869
E. Division 6 - Wood and PlasticsMetals									
1.00	Countertop	12	LF	\$4.89	\$59	\$7.75	\$93	\$59	\$211
2.00	Under Counter Shelving	24	LF	\$4.18	\$100	\$2.22	\$53	\$49	\$202
3.00	Plywood Sheathing	3,816	SF	\$0.62	\$2,366	\$0.36	\$1,374	\$1,205	\$4,945
4.00	Misc Blocking and Framing	1	LS	\$1,000.00	\$1,000	\$1,000.00	\$1,000	\$719	\$2,719
TOTAL - Wood and Plastics									\$8,077
F. Division 7 - Thermal and Moisture Protection									
1.00	Dampproofing	528	SF	\$0.06	\$32	\$0.31	\$164	\$89	\$284
2.00	Water Repellant Coatings	2,560	SF	\$0.27	\$691	\$0.05	\$128	\$215	\$1,035
3.00	Building Insulation (Ceiling)	3,570	SF	\$0.33	\$1,178	\$0.32	\$1,142	\$829	\$3,150
4.00	Building Insulation (CMU Walls)	2,640	SF	\$0.41	\$1,082	\$0.32	\$845	\$659	\$2,587
5.00	Building Insulation (Stud Walls)	2,640	SF	\$0.22	\$581	\$0.20	\$528	\$391	\$1,500
6.00	Building Insulation (Perimeter)	528	SF	\$0.26	\$137	\$0.34	\$180	\$120	\$437
7.00	Flashing/ Sheet Metal	280	LF	\$2.09	\$585	\$1.13	\$316	\$286	\$1,188
8.00	Standing Seam Metal Roof	3,816	SF	\$3.39	\$12,936	\$1.00	\$3,816	\$4,741	\$21,493
9.00	Roof Felt	39	SQ	\$9.85	\$384	\$12.25	\$478	\$323	\$1,185
10.00	Gutters	280	LF	\$3.52	\$986	\$4.47	\$1,252	\$842	\$3,079
11.00	Downspouts	78	LF	\$6.20	\$484	\$3.70	\$289	\$250	\$1,022
12.00	Sealants and Caulking	1	LS	\$500.00	\$500	\$750.00	\$750	\$485	\$1,735
TOTAL - Thermal and Moisture Protection									\$38,694
G. Division 8 - Doors and Windows									
1.00	Hollow Metal Door (Single)	4	EA	\$245.00	\$980	\$31.00	\$124	\$277	\$1,381
2.00	Hollow Metal Door Fr.(Single)	4	EA	\$74.50	\$298	\$29.00	\$116	\$123	\$537
3.00	Hollow Metal Doors (Double)	12	EA	\$245.00	\$2,940	\$31.00	\$372	\$830	\$4,142
4.00	Hollow Metal Door Fr. (Double)	6	EA	\$89.50	\$537	\$33.50	\$201	\$218	\$956
5.00	Hardware (Single)	4	EA	\$240.00	\$960	\$31.00	\$124	\$272	\$1,356
6.00	Hardware (Double)	6	EA	\$845.00	\$5,070	\$35.00	\$210	\$1,215	\$6,495
7.00	Aluminum Windows	2	EA	\$622.00	\$1,244	\$140.00	\$280	\$412	\$1,936
TOTAL - Doors and Frames									\$16,804
H. Division 9 - Finishes									
1.00	Gyp Board Ceilings	10,710	SF	\$0.29	\$3,106	\$0.76	\$8,140	\$4,750	\$15,995
2.00	Gyp Board Walls	5,430	SF	\$0.35	\$1,901	\$0.60	\$3,258	\$2,045	\$7,204
3.00	Ceramic Tile Floors	56	SF	\$3.90	\$218	\$2.14	\$120	\$108	\$446
4.00	Ceramic Tile Walls	216	SF	\$2.09	\$451	\$2.14	\$462	\$330	\$1,244
5.00	Acoustical Ceilinas	389	SF	\$1.13	\$440	\$0.39	\$152	\$172	\$763

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6.00	Epoxy Floors	3,570	SF	\$0.52	\$1,856	\$0.68	\$2,428	\$1,620	\$5,904
7.00	Carpet	13	CY	\$13.95	\$181	\$3.00	\$39	\$59	\$280
8.00	Painting	9,000	SF	\$0.14	\$1,260	\$0.32	\$2,880	\$1,716	\$5,856
TOTAL - Finishes									\$37,692
I. Division 10 - Specialties									
1.00	Soap Dispenser	1	EA	\$28.00	\$28	\$25.00	\$25	\$19	\$72
2.00	Toilet Paper Holder	1	EA	\$45.00	\$45	\$25.00	\$25	\$22	\$92
3.00	Mirror	1	EA	\$160.00	\$160	\$25.00	\$25	\$48	\$233
4.00	Paper Towel Disp./ Disposal	1	EA	\$300.00	\$300	\$100.00	\$100	\$116	\$516
5.00	Grab Bars	1	EA	\$80.00	\$80	\$100.00	\$100	\$68	\$248
TOTAL - Specialties									\$1,160
J. Division 11 - Equipment									
1.00	Not Used	0	0	\$0.00	\$0	\$0.00	\$0	\$0	\$0
TOTAL - Equipment									\$0
K. Division 13 - Special Construction									
1.00	Sprinkler System	1	EA	\$6,100.00	\$6,100	\$6,050.00	\$6,050	\$4,361	\$16,511
2.00	Pre-interlock	1	EA	\$5,140.00	\$5,140	\$4,630.00	\$4,630	\$3,441	\$13,211
TOTAL - Special Construction									\$29,722
L. Division 15 - Mechanical									
1.00	Split System Heat Pump	2	EA	\$3,795.00	\$7,590	\$820.00	\$1,640	\$2,482	\$11,712
2.00	Humidifier & Controls	2	EA	\$2,110.00	\$4,220	\$110.00	\$220	\$1,034	\$5,474
3.00	Air Terminal to 1000 cfm	5	EA	\$265.00	\$1,325	\$135.00	\$675	\$628	\$2,628
4.00	Air Terminal to 1500 cfm	2	EA	\$320.00	\$640	\$180.00	\$360	\$320	\$1,320
5.00	Ceiling Exhaust Fan & Wall Cap	1	EA	\$250.00	\$250	\$50.00	\$50	\$80	\$380
6.00	Electric Unit Heater	2	EA	\$325.00	\$650	\$85.00	\$170	\$227	\$1,047
7.00	Ductwork Galv.	2,790	LB	\$0.60	\$1,674	\$2.70	\$7,533	\$4,133	\$13,340
8.00	Ceiling Diffuser - FR	13	EA	\$135.00	\$1,755	\$34.00	\$442	\$605	\$2,802
9.00	Ceiling RA Perforated - FR	7	EA	\$166.00	\$1,162	\$43.00	\$301	\$405	\$1,868
10.00	Manual Damper Round	15	EA	\$33.00	\$495	\$15.00	\$225	\$221	\$941
11.00	Fire Damper Rectangular	4	EA	\$43.00	\$172	\$18.00	\$72	\$74	\$318
12.00	Fire Damper Round	1	EA	\$38.00	\$38	\$18.00	\$18	\$17	\$73
13.00	Insulated Flexible Duct	120	LF	\$3.10	\$372	\$3.40	\$408	\$285	\$1,065
14.00	Refrigerant Piping	160	LF	\$1.90	\$304	\$10.30	\$1,648	\$891	\$2,843
15.00	Duct Liner	210	SF	\$0.65	\$137	\$1.30	\$273	\$166	\$576
16.00	Duct Wrap Insulation	1,570	SF	\$0.60	\$942	\$1.50	\$2,355	\$1,384	\$4,681
17.00	HVAC Control	1	SY	\$730.00	\$730	\$900.00	\$900	\$610	\$2,240
18.00	Testing & Balancing Air System	1	SY	\$250.00	\$250	\$800.00	\$800	\$455	\$1,505
TOTAL - HVAC									\$54,813
M. Division 15 - Mechanical									
1.00	Water closet - Tank Type	1	EA	\$315.00	\$315	\$425.00	\$425	\$281	\$1,021
2.00	Lavatory - Wall Hung	1	EA	\$350.00	\$350	\$450.00	\$450	\$302	\$1,102
3.00	2-Compartment Sink - SS	1	EA	\$555.00	\$555	\$475.00	\$475	\$359	\$1,389
4.00	Water Heater - Electric 12 Gal.	1	EA	\$350.00	\$350	\$560.00	\$560	\$357	\$1,267

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5.00	Floor Cleanout (3")	1	EA	\$65.00	\$65	\$37.00	\$37	\$33	\$135
6.00	Floor Cleanout (4")	1	EA	\$80.00	\$80	\$40.00	\$40	\$38	\$158
7.00	Floor Drain (3")	1	EA	\$120.00	\$120	\$50.00	\$50	\$51	\$221
8.00	3/4" Ball Valves	2	EA	\$12.15	\$24	\$14.75	\$30	\$20	\$74
9.00	1" Gate Valve	1	EA	\$24.00	\$24	\$16.00	\$16	\$13	\$53
10.00	3/4" Non-Freeze Hose Bibbs	2	EA	\$140.00	\$280	\$25.00	\$50	\$86	\$416
11.00	1/2" Trap Primer Valve	1	EA	\$50.00	\$50	\$15.00	\$15	\$18	\$83
12.00	4" PVC Sch. 40	30	LF	\$5.90	\$177	\$11.80	\$354	\$216	\$747
13.00	3" PVC Sch. 40	60	LF	\$4.20	\$252	\$10.40	\$624	\$367	\$1,243
14.00	2" PVC Sch. 40	36	LF	\$2.00	\$72	\$8.60	\$310	\$171	\$552
15.00	1-1/2" PVC Sch. 40	24	LF	\$1.50	\$36	\$7.80	\$187	\$101	\$325
16.00	1" Type L Copper Pipe	38	LF	\$3.30	\$125	\$4.30	\$163	\$109	\$398
17.00	3/4" Type L Copper Pipe	190	LF	\$2.50	\$475	\$3.30	\$627	\$418	\$1,520
18.00	1/2" Type L Copper Pipe	84	LF	\$1.80	\$151	\$3.50	\$294	\$180	\$625
19.00	(1/2") Backflow Preventer	1	EA	\$70.00	\$70	\$25.00	\$25	\$28	\$123
20.00	(1") Backflow Preventer	1	EA	\$205.00	\$205	\$45.00	\$45	\$67	\$317
TOTAL - Plumbing									\$11,769
N. Division 16 - Electrical									
1.00	2' x 4' Fixtures	5	EA	\$104.00	\$520.00	\$48.00	\$240.00	\$234	\$994
2.00	1' x 4' Fixtures	29	EA	\$42.00	\$1,218.00	\$48.00	\$1,392.00	\$963	\$3,573
3.00	Outdoor Lighting	8	EA	\$80.00	\$640.00	\$52.00	\$416.00	\$348	\$1,404
4.00	Downlight Fixtures	3	EA	\$40.00	\$120.00	\$48.00	\$144.00	\$98	\$362
5.00	Switches	3	EA	\$24.00	\$72.00	\$35.00	\$105.00	\$68	\$245
6.00	3-Way Switches	10	EA	\$24.00	\$240.00	\$71.00	\$710.00	\$408	\$1,358
7.00	Exit Signs	5	EA	\$58.00	\$290.00	\$48.00	\$240.00	\$184	\$714
8.00	Duplex Receptacle	44	EA	\$16.00	\$704.00	\$18.00	\$792.00	\$550	\$2,046
9.00	Data Phone Line Combo	10	EA	\$28.00	\$280.00	\$32.00	\$320.00	\$221	\$821
10.00	60A/2P Disconnect Switch	2	EA	\$107.00	\$214.00	\$111.00	\$222.00	\$158	\$594
11.00	100A/2P Disconnect Switch	2	EA	\$183.00	\$366.00	\$134.00	\$268.00	\$214	\$848
12.00	30A/1P Disconnect Switch	1	EA	\$63.00	\$63.00	\$80.00	\$80.00	\$54	\$197
13.00	New Panel 120/240V (100A)	1	EA	\$600	\$600.00	\$400.00	\$400.00	\$331	\$1,331
14.00	New Panel 120/240V (400A)	1	EA	\$1,000	\$1,000.00	\$800.00	\$800.00	\$619	\$2,419
15.00	400/2P Fused Disconnect Switch	1	EA	\$1,100	\$1,100.00	\$400.00	\$400.00	\$441	\$1,941
16.00	#12 Conductors	5	CLF	\$6.50	\$32.50	\$23.00	\$115.00	\$65	\$212
17.00	#10 Conductors	3	CLF	\$11.00	\$33.00	\$25.50	\$76.50	\$45	\$155
18.00	#8 Conductors	1	CLF	\$18.50	\$18.50	\$32.00	\$32.00	\$20	\$71
19.00	#6 Conductors	2	CLF	\$30.00	\$60.00	\$39.50	\$79.00	\$53	\$192
20.00	#4 Conductors	2	CLF	\$48.00	\$96.00	\$48.00	\$96.00	\$69	\$261
21.00	#2 Conductors	4	CLF	\$71.00	\$284.00	\$56.50	\$226.00	\$175	\$685
22.00	#1 Conductors	2	CLF	\$90.00	\$180.00	\$64.00	\$128.00	\$103	\$411
23.00	#4/0 Conductors	8	CLF	\$214.00	\$1,712.00	\$116.00	\$928.00	\$839	\$3,479
24.00	3/4" Conduit	200	LF	\$1.50	\$300.00	\$3.00	\$600.00	\$366	\$1,266
25.00	1" Conduit	150	LF	\$2.00	\$300.00	\$3.70	\$555.00	\$343	\$1,198
26.00	1-1/4" Conduit	50	LF	\$2.50	\$125.00	\$4.00	\$200.00	\$127	\$452
27.00	1-1/2" Conduit	50	LF	\$2.80	\$140.00	\$4.25	\$212.50	\$137	\$489
28.00	3" Conduit	250	LF	\$9.00	\$2,250.00	\$8.50	\$2,125.00	\$1,555	\$5,930
29.00	Air Terminal	3	EA	\$30.00	\$90.00	\$50.00	\$150.00	\$95	\$335
30.00	Ground Rod	4	EA	\$30.00	\$120.00	\$58.00	\$232.00	\$142	\$494
31.00	#4/0 Ground Grid	8	CLF	\$38.00	\$304.00	\$47.00	\$376.00	\$255	\$935
32.00	#2 Roof Top Lightning Cable	3	CLF	\$28.00	\$84.00	\$32.00	\$96.00	\$66	\$246
33.00	#2 Down Conductor	2	CLF	\$28.00	\$56.00	\$32.00	\$64.00	\$44	\$164
34.00	TVSS	2	EA	\$1,300.00	\$2,600.00	\$400.00	\$800.00	\$969	\$4,369
35.00	Cable terminator	1	LS	\$300.00	\$300.00	\$0.00	\$0.00	\$66	\$366
36.00	Miscellaneous	1	LS	\$2,000.00	\$2,000.00	\$0.00	\$0.00	\$438	\$2,438
TOTAL - Electrical									\$42,996

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COLUMN SUBTOTALS

					Bare (M)		Bare (L)	Total Factor	384,356
					\$161,104		\$125,314	\$97,938	384,356

PROJECT COST SUMMARY				Material	Labor	
BARE COSTS:						
Totals				\$161,104	\$125,314	
Tax (6% - Material Only)				\$9,666	\$0	
SUBTOTAL				\$170,770	\$125,314	
FACTORED COSTS:						
Factored Materials Costs @15%				\$25,615	\$0	
Factored Labor Costs @ 50%				\$0	\$62,657	
Factored Cost Subtotal				\$25,615	\$62,657	
SUBTOTAL				\$196,385	\$187,970	\$384,356
CONTINGENCY:						
Construction Contingency (15%)				\$29,458	\$28,196	
CONSTRUCTION TOTAL				\$225,843	\$216,166	\$442,009