

JOSH GREEN, M.D.
GOVERNOR
KE KIA ĀINA



KEITH A. REGAN
COMPTROLLER
KA LUNA HO'OMALU HANA LAULĀ

MEOH-LENG SILLIMAN (P)23 008
DEPUTY COMPTROLLER
KA HOPE LUNA HO'OMALU HANA LAULĀ


STATE OF HAWAII | KA MOKU'ĀINA O HAWAII
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES | KA 'OIHANA LOIHELU A LAWELAWE LAULĀ
P.O. BOX 119 HONOLULU, HAWAII 96810-0119

JAN 30 2023

COMPTROLLER'S MEMORANDUM NO. 2023-02

TO: Heads of Departments and Agencies

ATTENTION: Administrative and Fiscal Offices and
Capital Improvement Program Coordinators

FROM: Keith A. Regan 
Comptroller

SUBJECT: Revised DAGS - Public Works Division Table A8a for
Project Budgeting (Covering Contingency, Consultant and Other Costs)

This Comptroller's Memorandum updates the previous Table A8a dated July 1, 2011. We note that:

1. This table will inform the departments and agencies of the "broad guidelines" that will be used for the preparation of budget requests for construction and renovation projects to be implemented by DAGS.
2. All costs in the table are in thousands of dollars (\$1,000s).
3. The bolded text identifies the latest revisions made to footnotes 4, 8, 9, and 11.

If you have any questions, please have your staff call me at (808) 586-0400 or have your staff call Christine L. Kinimaka, Public Works Administrator at (808) 586-0526.

Attachment

TABLE A8a
CONTINGENCY, DESIGN, AND INSPECTION COSTS

(All costs in \$1,000. See notes on page 3.)

BASIC CONSTR UCTION COST <u>1/</u> and <u>12/</u>	CONTIN GENCY <u>2/</u>	DESIGN							CONSTRUCTION <u>9/</u>					ALL COLUMNS TOTALED (basic bid+continge ncy+design+ construction)	
		TOTAL (Consult. + DAGS Staff Costs)	CONSULTANT SERVICES				PROJECT MANAGEMENT PHASE		TOTAL (CONSULT. + DAGS Costs)	CONSULTANT SERVICES			CONSTRUCTION MANAGEMENT PHASE		
			Sub- total	Sub- surface Investig ation <u>3/</u>	Survey <u>3/</u>	Design Services <u>4/</u>	DAGS Staff Costs <u>5/</u>	DAGS Support Costs <u>6/</u>		Sub- total	OAC Mtg./ Observ. <u>7/</u>	Consult. Services <u>8/</u>	DAGS Staff Costs <u>10/</u>		DAGS Support Costs <u>11/</u>
10	0.5	7	3	0	0	3	1	3	8	3	2	1	2	3	25
15	0.7	8	4	0	0	4	1	3	8	3	2	1	2	3	31
20	1	8	4	0	0	4	1	3	11	5	4	1	3	3	40
25	1	11	5	0	0	5	3	3	11	5	4	1	3	3	48
30	1	11	5	0	0	5	3	3	14	7	6	1	4	3	56
35	1	11	5	0	0	5	3	3	14	7	6	1	4	3	61
40	2	13	7	0	2	5	3	3	17	10	8	2	4	3	72
50	2	15	9	0	2	7	3	3	19	10	8	2	5	4	86
60	3	18	11	0	2	9	3	4	19	10	8	2	5	4	100
70	3	20	13	0	2	11	3	4	19	10	8	2	5	4	112
80	4	21	14	0	2	12	3	4	21	12	8	4	5	4	126
90	4	23	15	0	2	13	4	4	22	12	8	4	6	4	139
100	5	28	19	3	2	14	4	5	23	12	8	4	7	4	156
150	7	34	25	3	2	20	4	5	27	15	10	5	8	4	218
200	10	38	29	4	2	23	4	5	28	15	10	5	9	4	276
250	12	41	32	4	2	26	4	5	29	15	10	5	10	4	332
300	15	46	37	5	3	29	4	5	31	16	10	6	11	4	392
350	17	51	41	5	3	33	4	6	34	18	12	6	12	4	452
400	20	55	45	6	3	36	4	6	36	18	12	6	14	4	511
450	22	62	52	6	3	43	4	6	38	19	12	7	15	4	572
500	25	69	59	7	4	48	4	6	39	19	12	7	16	4	633
550	27	73	62	7	4	51	5	6	43	22	14	8	17	4	693
600	30	76	64	7	4	53	5	7	45	22	14	8	19	4	751
650	32	81	69	7	4	58	5	7	46	22	14	8	20	4	809
700	35	86	72	7	4	61	7	7	49	22	14	8	23	4	870
750	37	91	77	7	4	66	7	7	54	26	16	10	24	4	932
800	40	93	79	7	4	68	7	7	57	26	16	10	27	4	990
850	42	100	84	7	4	73	8	8	60	26	16	10	30	4	1052
900	45	103	87	7	4	76	8	8	64	26	16	10	34	4	1112
950	47	107	91	7	4	80	8	8	68	29	18	11	35	4	1172
1000	50	110	94	8	4	82	8	8	70	29	18	11	37	4	1230
1050	52	115	99	8	4	87	8	8	74	33	22	11	37	4	1291
1100	55	119	102	8	4	90	8	9	76	34	22	12	38	4	1350
1150	57	122	104	8	4	92	9	9	76	34	22	12	38	4	1405
1200	60	125	107	8	4	95	9	9	76	34	22	12	38	4	1461
1250	62	128	110	8	4	98	9	9	79	35	22	13	39	5	1519
1300	65	131	112	8	4	100	10	9	79	35	22	13	39	5	1575
1350	67	135	115	8	4	103	10	10	80	35	22	13	40	5	1632
1400	70	141	119	9	5	105	12	10	80	35	22	13	40	5	1691
1450	72	142	120	9	5	106	12	10	81	36	22	14	40	5	1745
1500	75	144	122	9	5	108	12	10	82	36	22	14	41	5	1801
1550	77	148	126	9	5	112	12	10	82	36	22	14	41	5	1857
1600	80	153	129	9	5	115	13	11	83	36	22	14	42	5	1916
1650	82	156	132	9	5	118	13	11	85	37	22	15	43	5	1973
1700	85	159	134	10	5	119	14	11	85	37	22	15	43	5	2029
1750	87	164	139	10	5	124	14	11	86	37	22	15	44	5	2087
1800	90	167	142	10	5	127	14	11	86	37	22	15	44	5	2143
1850	92	172	145	10	6	129	15	12	88	38	22	16	45	5	2202
1900	95	175	148	10	6	132	15	12	88	38	22	16	45	5	2258
1950	97	178	151	10	6	135	15	12	88	38	22	16	45	5	2313
2000	100	183	154	10	6	138	17	12	90	38	22	16	46	6	2373
2050	102	187	158	10	6	142	17	12	91	39	22	17	46	6	2430

TABLE A8a
CONTINGENCY, DESIGN, AND INSPECTION COSTS

(All costs in \$1,000. See notes on page 3.)

BASIC CONSTR UCTION COST <u>1/</u> and <u>12/</u>	CONTIN GENCY <u>2/</u>	DESIGN							CONSTRUCTION <u>9/</u>					ALL COLUMNS TOTALED (basic bid+continge ncy+design+ construction)	
		TOTAL (Consult. + DAGS Staff Costs)	CONSULTANT SERVICES				PROJECT MANAGEMENT PHASE		TOTAL (CONSULT. + DAGS Costs)	CONSULTANT SERVICES			CONSTRUTION MANAGEMENT PHASE		
			Sub- total	Sub- surface Investig ation <u>3/</u>	Survey <u>3/</u>	Design Services <u>4/</u>	DAGS Staff Costs <u>5/</u>	DAGS Support Costs <u>6/</u>		Sub- total	OAC Mtg./ Observ. <u>7/</u>	Consult. Services <u>8/</u>	DAGS Staff Costs <u>10/</u>		DAGS Support Costs <u>11/</u>
2100	105	190	160	11	6	143	17	13	92	39	22	17	47	6	2487
2150	107	193	163	11	6	146	17	13	92	39	22	17	47	6	2542
2200	110	195	165	11	6	148	17	13	93	39	22	17	48	6	2598
2250	112	201	170	11	6	153	17	14	94	40	22	18	48	6	2657
2300	115	204	172	11	6	155	18	14	94	40	22	18	48	6	2713
2350	117	206	174	12	7	155	18	14	96	41	22	19	49	6	2769
2400	120	209	176	12	7	157	18	15	97	42	22	20	49	6	2826
2450	122	212	178	12	7	159	19	15	98	43	22	21	49	6	2882
2500	125	216	182	13	7	162	19	15	100	44	22	22	50	6	2941
2550	127	221	186	13	7	166	19	16	104	48	26	22	50	6	3002
2600	130	223	187	13	7	167	20	16	106	49	26	23	51	6	3059
2650	132	225	189	14	8	167	20	16	108	50	26	24	52	6	3115
2700	135	230	193	14	8	171	20	17	109	50	26	24	53	6	3174
2750	137	234	195	14	8	173	22	17	111	51	26	25	54	6	3232
2800	140	237	198	14	8	176	22	17	112	51	26	25	55	6	3289
2850	142	240	200	15	9	176	22	18	113	51	26	25	56	6	3345
2900	145	244	203	15	9	179	23	18	115	52	26	26	57	6	3404
2950	147	247	206	16	9	181	23	18	117	52	26	26	58	7	3461
3000	150	250	208	16	9	183	23	19	119	53	26	27	59	7	3519
3100	155	258	216	17	9	190	23	19	121	53	26	27	61	7	3634
3200	160	262	220	17	10	193	23	19	124	54	26	28	63	7	3746
3400	170	277	233	18	10	205	24	20	128	55	26	29	66	7	3975
3600	180	290	246	18	10	218	24	20	132	56	26	30	69	7	4202
3800	190	304	259	18	10	231	24	21	136	57	26	31	72	7	4430
4000	200	319	274	19	10	245	24	21	140	58	26	32	75	7	4659
4200	210	328	281	19	11	251	25	22	148	63	30	33	78	7	4886
4400	220	341	294	19	11	264	25	22	152	64	30	34	81	7	5113
4600	230	360	310	20	11	279	27	23	156	65	30	35	84	7	5346
4800	240	372	322	20	11	291	27	23	162	66	30	36	89	7	5574
5000	250	383	331	20	11	300	28	24	166	67	30	37	92	7	5799
5200	260	397	344	21	12	311	29	24	171	69	30	39	95	7	6028
5400	270	412	357	22	12	323	30	25	175	70	30	40	98	7	6257
5600	280	426	369	23	12	334	32	25	179	71	30	41	101	7	6485
5800	290	441	383	24	12	347	32	26	183	72	30	42	104	7	6714
6000	300	455	396	25	12	359	33	26	187	73	30	43	107	7	6942
6200	310	469	408	26	13	369	34	27	199	81	36	45	110	8	7178
6400	320	486	424	26	13	385	35	27	203	82	36	46	113	8	7409
6600	330	501	436	26	13	397	37	28	207	83	36	47	116	8	7638
6800	340	515	449	26	13	410	38	28	211	84	36	48	119	8	7866
7000	350	530	463	27	13	423	38	29	215	85	36	49	122	8	8095
7200	360	548	480	28	14	438	39	29	219	86	36	50	125	8	8327
7400	370	555	485	28	14	443	40	30	223	87	36	51	128	8	8548
7600	380	570	498	28	14	456	42	30	227	88	36	52	131	8	8777
7800	390	582	509	28	14	467	42	31	231	89	36	53	134	8	9003
8000	400	596	522	28	14	480	43	31	235	90	36	54	137	8	9231
8200	410	610	534	29	15	490	44	32	239	91	36	55	140	8	9459
8400	420	622	545	29	15	501	45	32	243	92	36	56	143	8	9685
8600	430	637	557	29	15	513	47	33	248	93	36	57	147	8	9915
8800	440	651	570	29	15	526	48	33	252	94	36	58	150	8	10143
9000	450	664	582	29	15	538	48	34	256	95	36	59	153	8	10370
9200	460	677	594	30	16	548	49	34	260	96	36	60	156	8	10597
9400	470	690	605	30	16	559	50	35	264	97	36	61	159	8	10824

TABLE A8a CONTINGENCY, DESIGN, AND INSPECTION COSTS

(All costs in \$1,000. See notes on page 3.)

BASIC CONSTRUCTION COST <u>1/</u> and <u>12/</u>	CONTINGENCY <u>2/</u>	DESIGN							CONSTRUCTION <u>9/</u>					ALL COLUMNS TOTALED (basic bid+contingency+design+construction)	
		TOTAL (Consult. + DAGS Staff Costs)	CONSULTANT SERVICES				PROJECT MANAGEMENT PHASE		TOTAL (CONSULT. + DAGS Costs)	CONSULTANT SERVICES			CONSTRUCTION MANAGEMENT PHASE		
			Sub-total	Sub-surface Investigation <u>3/</u>	Survey <u>3/</u>	Design Services <u>4/</u>	DAGS Staff Costs <u>5/</u>	DAGS Support Costs <u>6/</u>		Sub-total	OAC Mtg./ Observ. <u>7/</u>	Consult. Services <u>8/</u>	DAGS Staff Costs <u>10/</u>		DAGS Support Costs <u>11/</u>
9600	480	706	619	30	16	573	52	35	268	98	36	62	162	8	11054
9800	490	722	632	30	16	586	54	36	272	99	36	63	165	8	11284
10000	500	734	640	30	16	594	58	36	276	100	36	64	168	8	11510
15000	750	1053	933	35	21	877	83	37	421	169	80	89	243	9	17224
20000	1000	1371	1225	40	26	1159	108	38	529	202	88	114	318	9	22900
30000	1500	2009	1811	50	36	1725	158	40	738	260	96	164	468	10	34247
40000	2000	2646	2396	60	46	2290	208	42	939	310	96	214	618	11	45585
50000	2500	3284	2982	70	56	2856	258	44	1140	360	96	264	768	12	56924
75000	3750	4814	4447	95	81	4271	321	46	1316	485	96	389	818	13	84880
100000	5000	6344	5912	120	106	5686	384	48	1492	610	96	514	868	14	112836

1/ Basic Construction Cost: This is the estimated construction bid cost (based on construction costs escalated to middle of the construction timetable).

2/ Contingency: This is 5% of the basic construction cost, except for renovation projects - use 7% of the basic construction cost. Use 20% of the basic construction cost if piles are required.

3/ Design - Consultant Services - Sub-surface investigation and field investigation/preliminary Survey work: Delete these costs if they are not required.

4/ Design - Consultant Services - Design Services: This is the consultant's fee to design the project. Design services include DCAB and other plan review fees. Use 200% of the design fee for renovation projects under \$500,000 basic construction cost. Use 175% of the design fee for renovation projects greater than \$500,000 basic construction cost. Add additional costs for Environmental Impact Statement, and other special permits and approvals. Include an additional 20% for consultant services if project has a wastewater connection or treatment system.

5/ Design - DAGS Staff Costs: Applicable only for non-CIP projects. (This cost covers DAGS' staff salaries, fringes, etc.)

6/ Design - DAGS Support Costs: Applicable for all projects - CIP, CIP 'qualified', and non-CIP projects. This cost includes all standard project costs such as reproduction, motorpool rental/mileage, advertisement, office and field supplies, and other expenses. This cost include \$1500 for collaboration platform fees. If needed, add additional costs for travel, car rental, etc. Added \$1,000 for archiving expenses.

7/ Construction - Consultant Services - OAC (owner-architect-contractor) meetings/observations: Delete this fee if OAC meetings are not required. Use this fee for projects < \$10,000,000, based on one (1) day per month site visit by two (2) project consultants and preparation of site visit report. For projects > \$10,000,000, based on two (2) days per month site visit by two (2) project consultants and preparation of site visit report. Construction duration based on Table B1a - Regular Time Requirements, dated 8/6/01. Lost time for inter-island travel and travel costs are not included.

8/ Construction - Consultant Services: This is for design consultant services during construction. Add additional costs for air monitoring, survey, special inspections, archaeological monitoring, building commissioning, etc. If needed, for projects involving security systems, security communications, special systems for air conditioning and ventilation, structural hardening to meet Enhanced Hurricane Protection Area, or when anticipating a substantial number of unforeseen conditions, use 200% of the consultant services.

9/ Utility costs: Include costs billed by HECO, BWS, Htelcom, etc. which are to be paid directly by DAGS or the contracting agency.

10/ Construction - DAGS Staff Costs: Applicable only for non-CIP projects. (This cost covers DAGS' staff salaries, fringes, etc.)

11/ Construction - DAGS Support Costs: Applicable for all projects - CIP, CIP 'qualified', and non-CIP projects. This cost includes all standard project costs such as reproduction, motorpool rental/mileage, advertisement, office and field supplies, and other expenses. This cost includes \$1,500 for collaboration platform fees and \$1,000 for archiving expenses. If needed, add additional costs for travel, car rental, etc. And, if needed, for individual projects > \$10,000,000 (bid estimate), include a budget of \$100,000/month for projects on Oahu or a budget of \$130,000/month for projects on the neighbor islands to hire a consultant to bolster construction management services that would provide services during construction and extend 12 months longer than the targeted completion schedule.

12/ For projects that are below \$10,000 basic construction cost: Do not extrapolate. Use allocations for a \$10,000 basic construction cost project.