

ITEM	GROUP	SEQ	SITE	DESCRIPTION	CATEGORY	DESIGN	CONSTRUCTION	TOTAL
1	1	13	Moore Hall	Reroofing	Reroofing	45,000	385,000	430,000
2	1	14	Gilmore Hall	Reroofing	Reroofing	45,000	300,000	345,000
3	1	17	Watanabe Hall	Reroofing	Reroofing	35,000	300,000	335,000
4	1	18	Bilger Addition	Reroofing	Reroofing	35,000	275,000	310,000
5	1	19	Marine Science (Includes Mech Room)	Reroofing	Reroofing	35,000	300,000	335,000
6	1	20	Queen Liliuokalani Center	Reroofing	Reroofing	35,000	300,000	335,000
7	1	38	Everly Hall	Reroofing	Reroofing	75,000	425,000	500,000
8	1	39	Environmental Protection Facility	Reroofing	Reroofing	30,000	250,000	280,000
9	1	40	Kuykendall Hall	Reroofing	Reroofing	35,000	350,000	385,000
10	1	41	Saunders Hall	Reroofing	Reroofing	30,000	250,000	280,000
11	1	42	Speech Pathology/Audiology	Reroofing	Reroofing	25,000	200,000	225,000
12	1	64	Building 171	Reroofing	Reroofing	25,000	150,000	175,000
13	1	65	Dean Hall	Reroofing	Reroofing	35,000	225,000	260,000
14	1	66	Pope Lab	Reroofing	Reroofing	30,000	250,000	280,000
15	1	67	CTAHR-Off Campus Facilities	Reroofing	Reroofing	200,000	1,300,000	1,500,000
16	1	68	Agricultural Engineering	Reroofing	Reroofing	25,000	150,000	175,000
17	1	69	Krauss Hall	Reroofing	Reroofing	40,000	200,000	240,000
18	1	75	Building 37	Reroofing	Reroofing	8,000	30,000	38,000
19	1	76	Bachman Hall	Reroofing	Reroofing	45,000	450,000	495,000
20	1	77	Temporary Bldgs (18)	Reroofing	Reroofing	40,000	400,000	440,000
21	1	84	School of Architecture	Reroofing	Reroofing	35,000	350,000	385,000
22	1	85	University Lab-HS #3	Reroofing	Reroofing	30,000	175,000	205,000
23	1	119	University Lab-Locker Room	Reroofing	Reroofing	20,000	60,000	80,000
24	1	120	University Lab-HS #1, #2	Reroofing	Reroofing	45,000	275,000	320,000
25	1	121	Castle Memorial	Reroofing	Reroofing	60,000	450,000	510,000
26	1	122	Engineering Quad	Reroofing	Reroofing	20,000	180,000	200,000
27	2	2	Sakamaki Hall (Court C & D)	Replace Air Conditioning System, Phs 2	Energy Efficiency and HVAC Upgrades		2,000,000	2,000,000
28	2	3	Various Bldgs	EMCS Upgrades, Phs 1	Energy Efficiency and HVAC Upgrades		750,000	750,000
29	2	9	Schidler College of Business	Replace Central Plant Equipment	Energy Efficiency and HVAC Upgrades		2,000,000	2,000,000
30	2	10	Gilmore Hall	General Mechanical Repairs, Phs 1	Energy Efficiency and HVAC Upgrades	200,000	2,000,000	2,200,000
31	2	25	Various Bldgs	Water Conservation Upgrades, Phs 1	Energy Efficiency and HVAC Upgrades	50,000	750,000	800,000
32	2	33	Gilmore Hall	General Mechanical Repairs, Phs 2	Energy Efficiency and HVAC Upgrades		2,000,000	2,000,000
33	2	34	Saunders Hall	Replace Central Plant Equipment	Energy Efficiency and HVAC Upgrades	150,000	2,000,000	2,150,000
34	2	35	Various Bldgs	Energy Efficiency Upgrades to Outside Air and VFD Cooling Towers	Energy Efficiency and HVAC Upgrades	75,000	1,000,000	1,075,000
35	2	36	Bilger Addition	Repair/Replace Fume Hood Exhaust and Air Conditioning Distribution System	Energy Efficiency and HVAC Upgrades	150,000	2,000,000	2,150,000
36	2	37	Astronomy	Repair to Central Plant Equipment and Reheat Water System	Energy Efficiency and HVAC Upgrades	100,000	1,500,000	1,600,000
37	2	54	Astronomy Complex	General Mechanical Repairs/Replace HVAC Equipment & Air Distribution System, Phs 1	Energy Efficiency and HVAC Upgrades	150,000	1,500,000	1,650,000
38	2	55	Agricultural Science Facility, Phs 3	General Mechanical Repairs	Energy Efficiency and HVAC Upgrades	150,000	1,800,000	1,950,000
39	2	56	Bilger Addition	Replace Central Plant Equipment	Energy Efficiency and HVAC Upgrades	150,000	2,000,000	2,150,000
40	2	57	Hamilton Library, Phs 2	General Mechanical Repairs	Energy Efficiency and HVAC Upgrades	150,000	2,000,000	2,150,000
41	2	58	Kuykendall Hall	Upgrade Air Conditioning System (Install Outside Air (OA) Air Handling Unit)	Energy Efficiency and HVAC Upgrades	100,000	1,200,000	1,300,000
42	2	78	Sherman Lab	General Mechanical Repairs, Phs 1	Energy Efficiency and HVAC Upgrades	200,000	1,500,000	1,700,000

ITEM	GROUP	SEQ	SITE	DESCRIPTION	CATEGORY	DESIGN	CONSTRUCTION	TOTAL
43	2	79	Marine Science Building	General Mechanical Repairs Phs, 1	Energy Efficiency and HVAC Upgrades	200,000	1,500,000	1,700,000
44	2	91	Saunders Hall	General Mechanical Repairs, Phs 1	Energy Efficiency and HVAC Upgrades	200,000	1,500,000	1,700,000
45	2	96	Art Building	Replace Cooling Tower, Pumps, and Misc. Mech. Equipment	Energy Efficiency and HVAC Upgrades	100,000	1,500,000	1,600,000
46	2	97	Sherman Lab	General Mechanical Repairs Phs, 2	Energy Efficiency and HVAC Upgrades		1,500,000	1,500,000
47	2	98	Marine Science Building	General Mechanical Repairs Phs, 2	Energy Efficiency and HVAC Upgrades		1,500,000	1,500,000
48	2	99	Saunders Hall	General Mechanical Repairs, Phs 2	Energy Efficiency and HVAC Upgrades		1,500,000	1,500,000
49	2	100	Architecture	Replace Cooling Tower, Pumps, and Misc. Mech. Equipment	Energy Efficiency and HVAC Upgrades	100,000	1,500,000	1,600,000
50	2	101	Chilled Water Loop C	Repair Chilled Water Loop C	Energy Efficiency and HVAC Upgrades	100,000	1,500,000	1,600,000
51	2	105	HPER	General Mechanical Repairs, Phs 1	Energy Efficiency and HVAC Upgrades	200,000	2,000,000	2,200,000
52	2	109	Holmes Hall	General Mechanical Repairs, Replace Air Distribution System, Phs 1	Energy Efficiency and HVAC Upgrades	200,000	2,000,000	2,200,000
53	2	110	Various Bldgs	EMCS Upgrades, Phs 2	Energy Efficiency and HVAC Upgrades	50,000	750,000	800,000
54	2	112	HPER	General Mechanical Repairs, Phs 2	Energy Efficiency and HVAC Upgrades		2,000,000	2,000,000
55	2	114	Holmes Hall	General Mechanical Repairs, Replace Air Distribution System, Phs 2	Energy Efficiency and HVAC Upgrades		2,000,000	2,000,000
56	2	130	Biomedical Sciences Building	General Mechanical Repairs	Energy Efficiency and HVAC Upgrades	125,000	1,500,000	1,625,000
57	2	131	Hawaiian Studies	General Mechanical Repairs	Energy Efficiency and HVAC Upgrades	75,000	1,000,000	1,075,000
58	2	132	POST	General Mechanical Repairs	Energy Efficiency and HVAC Upgrades	75,000	1,000,000	1,075,000
59	2	133	HIG	Replace Central Plant Equipment	Energy Efficiency and HVAC Upgrades	100,000	1,500,000	1,600,000
60	2	141	Physical Science Building	General Mechanical Repairs/Replace Chilled Water System	Energy Efficiency and HVAC Upgrades	75,000	1,000,000	1,075,000
61	2	142	Agricultural Engineering	General Mechanical Repairs/Replace Chilled Water System	Energy Efficiency and HVAC Upgrades	75,000	750,000	825,000
62	2	143	Music Complex - New Wing	General Mechanical Repairs/Replace Air Conditioning System	Energy Efficiency and HVAC Upgrades	100,000	1,500,000	1,600,000
63	2	145	Bachman Hall	General Mechanical Repairs/Replace Chilled Water System	Energy Efficiency and HVAC Upgrades	100,000	1,500,000	1,600,000
64	2	147	Astronomy Complex	General Mechanical Repairs/Replace HVAC Equipment & Air Distribution System, Phs 2	Energy Efficiency and HVAC Upgrades		1,500,000	1,500,000
65	2	169	Waikiki Aquarium	General Mechanical Repairs	Energy Efficiency and HVAC Upgrades	100,000	1,000,000	1,100,000
66	3	4	Les Murakami Stadium	Stair Replacement	Student Sports Facilities		400,000	400,000
67	3	11	Cooke Field	Replace Turf	Student Sports Facilities	125,000	1,000,000	1,125,000
68	3	12	Les Murakami Stadium	Corrective Work on Floodlights	Student Sports Facilities	100,000	1,500,000	1,600,000
69	3	27	Les Murakami Stadium	General Repairs, Repainting and Reroofing	Student Sports Facilities	200,000	1,390,000	1,590,000
70	3	70	Stan Sheriff Center	General Repairs and Repainting	Student Sports Facilities	60,000	550,000	610,000
71	3	94	Duke Kahanamoku Pool	Replace Electrical Apparatus	Student Sports Facilities	25,000	80,000	105,000
72	3	95	Stan Sheriff Center	Replace Lighting Control System	Student Sports Facilities	35,000	250,000	285,000
73	3	103	Gym I & II	General Repairs and Repainting	Student Sports Facilities	45,000	350,000	395,000
74	3	125	Stan Sheriff Center	General Mechanical Repairs	Student Sports Facilities	75,000	1,000,000	1,075,000
75	3	148	Les Murakami Stadium	General Mechanical Repairs	Student Sports Facilities	100,000	1,500,000	1,600,000
76	3	159	Cooke Field	Replace Bleachers	Student Sports Facilities	15,000	150,000	165,000
77	4	1	Pope Lab Greenhouses	General Repairs / Repainting / Reroofing	Building Renewal and Upgrades		1,200,000	1,200,000
78	4	5	Art Building	General Repairs / Repainting / Waterproofing	Building Renewal and Upgrades		1,500,000	1,500,000

ITEM	GROUP	SEQ	SITE	DESCRIPTION	CATEGORY	DESIGN	CONSTRUCTION	TOTAL
79	4	6	Hawaiian Studies - Kanewai Cultural Garden	Flood Repairs - Site Work	Building Renewal and Upgrades		1,200,000	1,200,000
80	4	7	Various Bldgs (Physical Science, St. John)	Upgrade Auditoriums (Seating/AC/Lighting/AV/Carpeting)	Building Renewal and Upgrades		1,000,000	1,000,000
81	4	8	Campus Sidewalk Repairs	Repairs to Walkways/ADA Compliance	Building Renewal and Upgrades		1,500,000	1,500,000
82	4	16	Krauss Hall	Drainage Improvements	Building Renewal and Upgrades	100,000	900,000	1,000,000
83	4	21	Hamilton Library	Repair Pedestrian Walkway	Building Renewal and Upgrades		400,000	400,000
84	4	22	School of Architecture	General Repairs and Repainting	Building Renewal and Upgrades	75,000	500,000	575,000
85	4	23	Pope Lab	General Repairs and Repainting	Building Renewal and Upgrades	30,000	250,000	280,000
86	4	24	Kennedy Theater	General Repairs and Repainting	Building Renewal and Upgrades	70,000	600,000	670,000
87	4	31	Kuykendall Hall	Renovation of Classroom Spaces (AC/Electrical/Painting/Acoustical/Ceilings)	Building Renewal and Upgrades	300,000	2,000,000	2,300,000
88	4	45	Various Bldgs	Elevator Modernization	Building Renewal and Upgrades	115,000	850,000	965,000
89	4	49	Various Bldgs (George, Bilger, Physical Science, Spalding, HIG)	Interior Renovations	Building Renewal and Upgrades	375,000	2,125,000	2,500,000
90	4	50	Gilmore Hall	General Repairs and Repainting	Building Renewal and Upgrades	50,000	600,000	650,000
91	4	51	Moore Hall	General Repairs and Repainting	Building Renewal and Upgrades	60,000	600,000	660,000
92	4	52	Marine Science Building	General Repairs and Repainting	Building Renewal and Upgrades	40,000	450,000	490,000
93	4	53	CTAHR-Off Campus Facilities	Interior Renovations/General Repairs & Repainting/Reroofing	Building Renewal and Upgrades	270,000	1,700,000	1,970,000
94	4	59	Various Bldgs (Holmes, Keller, Saunders, Watanabe)	Renovation of Classroom Spaces/Upgrade Auditoriums	Building Renewal and Upgrades	130,000	1,300,000	1,430,000
95	4	60	Various Bldgs	Repair/Replace Autoclaves	Building Renewal and Upgrades	50,000	350,000	400,000
96	4	71	Watanabe Hall	General Repairs and Repainting	Building Renewal and Upgrades	50,000	400,000	450,000
97	4	72	Queen Liliuokalani Center	General Repairs and Repainting	Building Renewal and Upgrades	50,000	400,000	450,000
98	4	73	St. John Plant Science Lab	General Repairs and Repainting	Building Renewal and Upgrades	60,000	650,000	710,000
99	4	74	HIG	General Repairs and Repainting	Building Renewal and Upgrades	45,000	500,000	545,000
100	4	80	Various Bldgs (Athletics, Dance Studio, Holmes Hall Machine Shop, Astronomy Machine Shop)	Replace High Bay Lighting	Building Renewal and Upgrades	25,000	80,000	105,000
101	4	83	Various Bldgs (Bilger, HIG, MSB)	Renovation of Lab Spaces (Lighting/Health & Safety/Other)	Building Renewal and Upgrades	375,000	2,125,000	2,500,000
102	4	86	Temporary Bldgs	Refurbishing of Interior Spaces	Building Renewal and Upgrades		900,000	900,000
103	4	87	Various Bldgs (Hemmenway Hall, Holmes, Hamilton)	ADA Modifications/Improvements	Building Renewal and Upgrades	200,000	2,200,000	2,400,000
104	4	88	Agricultural Engineering	General Repairs and Repainting	Building Renewal and Upgrades	30,000	300,000	330,000
105	4	89	Keller Hall/Physical Science Building	General Repairs and Repainting	Building Renewal and Upgrades	70,000	700,000	770,000
106	4	90	Auxiliary Services	General Repairs and Repainting	Building Renewal and Upgrades	30,000	250,000	280,000
107	4	92	Agricultural Science	General Repairs and Repainting	Building Renewal and Upgrades	40,000	400,000	440,000
108	4	93	Hamilton Library, Phs I & II	General Repairs and Repainting	Building Renewal and Upgrades	60,000	1,000,000	1,060,000
109	4	102	Various Bldgs (St. John, HIG, Miller, Watanabe)	Renovation of Classroom Spaces	Building Renewal and Upgrades	100,000	800,000	900,000
110	4	104	Wist Hall/Everly Hall	General Repairs and Repainting	Building Renewal and Upgrades	50,000	500,000	550,000
111	4	106	Sakamaki Hall	General Repairs and Repainting	Building Renewal and Upgrades	50,000	500,000	550,000
112	4	107	Building 37	General Repairs and Repainting	Building Renewal and Upgrades	10,000	30,000	40,000
113	4	108	Multipurpose Building	General Repairs and Repainting	Building Renewal and Upgrades	25,000	200,000	225,000
114	4	111	Various Bldgs	Elevator Modernization	Building Renewal and Upgrades	150,000	900,000	1,050,000

ITEM	GROUP	SEQ	SITE	DESCRIPTION	CATEGORY	DESIGN	CONSTRUCTION	TOTAL
115	4	113	Various Bldgs	Water Conservation Upgrades, Phs 2	Building Renewal and Upgrades	50,000	750,000	800,000
116	4	115	Various Bldgs (Physical Science, Art, Gilmore)	Renovation of Lab Spaces	Building Renewal and Upgrades	165,000	1,400,000	1,565,000
117	4	116	Various Bldgs (Art, Biomed Court B, MSB 110&114, Music #3)	Upgrade Auditoriums	Building Renewal and Upgrades	165,000	1,425,000	1,590,000
118	4	117	Various Bldgs	Repairs to Walkways/ADA Compliance	Building Renewal and Upgrades	50,000	550,000	600,000
119	4	123	Various Bldgs (Biomed, St. John, MSB)	Replace Refrigeration/Freezer Systems	Building Renewal and Upgrades	40,000	400,000	440,000
120	4	124	Magoon Lab Ag Complex	Security Fencing	Building Renewal and Upgrades	25,000	200,000	225,000
121	4	129	Campus Irrigation	Improvement & Expansion of Existing System	Building Renewal and Upgrades	35,000	215,000	250,000
122	4	134	Bachman Hall	General Repairs and Repainting	Building Renewal and Upgrades	45,000	300,000	345,000
123	4	135	Krauss Hall (Old Portion)	General Repairs and Repainting	Building Renewal and Upgrades	40,000	400,000	440,000
124	4	136	Klum Gym	General Repairs and Repainting	Building Renewal and Upgrades	25,000	300,000	325,000
125	4	137	Speech Pathology/Audiology	General Repairs and Repainting	Building Renewal and Upgrades	25,000	100,000	125,000
126	4	138	Environmental Protection Facility	General Repairs and Repainting	Building Renewal and Upgrades	30,000	150,000	180,000
127	4	139	Dance Building	General Repairs and Repainting	Building Renewal and Upgrades	20,000	150,000	170,000
128	4	140	Temporary Buildings (20)	General Repairs and Repainting	Building Renewal and Upgrades	30,000	400,000	430,000
129	4	144	Dean Hall	Repairs to Exterior/Interior	Building Renewal and Upgrades	35,000	300,000	335,000
130	4	146	Various Bldgs	Replacement of Dance Floors	Building Renewal and Upgrades	30,000	250,000	280,000
131	4	149	Cancer Center	General Repairs and Repainting	Building Renewal and Upgrades	60,000	600,000	660,000
132	4	150	CTAHR-Various (Oahu/Maui/Kauai/Hawaii)	Interior Renovations	Building Renewal and Upgrades	130,000	870,000	1,000,000
133	4	151	Mauna Kea 2.2m Telescope Dome	General Repairs and Repainting	Building Renewal and Upgrades	60,000	500,000	560,000
134	4	152	University Lab-HS #3	General Repairs and Repainting	Building Renewal and Upgrades	50,000	400,000	450,000
135	4	153	Cottages (4)	General Repairs and Repainting	Building Renewal and Upgrades	50,000	200,000	250,000
136	4	154	Small Animal	Replace Incinerator	Building Renewal and Upgrades	35,000	165,000	200,000
137	4	155	Physical Plant	General Repairs and Repainting	Building Renewal and Upgrades	25,000	300,000	325,000
138	4	156	Castle Memorial & Annex	General Repairs and Repainting	Building Renewal and Upgrades	80,000	500,000	580,000
139	4	157	Various Bldgs	Signage Replacement	Building Renewal and Upgrades	40,000	250,000	290,000
140	4	161	Various Bldgs	Elevator Modernization	Building Renewal and Upgrades	55,000	400,000	455,000
141	4	163	CTAHR-Off Campus Facilities	General Repairs and Repainting	Building Renewal and Upgrades	60,000	450,000	510,000
142	4	164	Waikiki Aquarium	Refurbishment of Interior Spaces/Grounds	Building Renewal and Upgrades	100,000	690,000	790,000
143	4	165	Coconut Island	Renovation to Interior Spaces	Building Renewal and Upgrades	300,000	2,500,000	2,800,000
144	4	166	Holmes Hall	Renovation of Carpenter Shop	Building Renewal and Upgrades	35,000	250,000	285,000
145	4	170	University Lab-HS #3	Repairs to Exterior/Interior	Building Renewal and Upgrades	50,000	400,000	450,000
146	4	171	Castle Memorial	Repairs to Exterior/Interior	Building Renewal and Upgrades	45,000	300,000	345,000
147	4	172	University Lab-HS #1	Repairs to Exterior/Interior	Building Renewal and Upgrades	45,000	400,000	445,000
148	4	173	University Lab-HS #2	Repairs to Exterior/Interior	Building Renewal and Upgrades	45,000	400,000	445,000
149	4	174	University Lab-HS #1, #2	General Repairs and Repainting	Building Renewal and Upgrades	60,000	400,000	460,000
150	5	15	Art Building	Replace Secondary Switchboards and Panelboards	Utility Repair and Upgrades	45,000	300,000	345,000
151	5	26	Various Bldgs	Replace Emergency Lighting	Utility Repair and Upgrades	30,000	300,000	330,000
152	5	28	Campus Electrical Distribution System	Cable Replacement	Utility Repair and Upgrades	50,000	400,000	450,000
153	5	29	Various Bldg (22 Buildings)	Lighting Improvements/Retrofits	Utility Repair and Upgrades	150,000	2,400,000	2,550,000
154	5	30	Electrical Substations	General Electrical Repairs/Replacement of Electrical Apparatus	Utility Repair and Upgrades	60,000	400,000	460,000
155	5	46	Various Bldgs	Exit Lighting Replacement	Utility Repair and Upgrades	30,000	300,000	330,000
156	5	47	HIG	Lighting System Improvements	Utility Repair and Upgrades	40,000	350,000	390,000

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157	5	48	Various Areas	Repair/Replace Defective Underground Mechanical Utilities, Phs 1	Utility Repair and Upgrades	100,000	1,500,000	1,600,000
158	5	61	Lower Campus	Improve Exterior Lighting	Utility Repair and Upgrades	50,000	300,000	350,000
159	5	62	Biomedical Sciences Building	Upgrade Power to the Courts	Utility Repair and Upgrades	35,000	200,000	235,000
160	5	63	POST	Replace UPS System	Utility Repair and Upgrades	30,000	125,000	155,000
161	5	81	Various Bldgs (Watanabe Hall, University Health Services, Pope Lab, Kennedy Theater, Miller Hall)	Replace Secondary Switchboards	Utility Repair and Upgrades	40,000	250,000	290,000
162	5	82	George Hall	Install New Transformer	Utility Repair and Upgrades	25,000	200,000	225,000
163	5	118	Various Areas	Repair/Replace Defective Underground Mechanical Utilities, Phs 2	Utility Repair and Upgrades	100,000	1,500,000	1,600,000
164	5	158	University High School Site	Upgrade Water Distribution Systems, Phs 1	Utility Repair and Upgrades	100,000	600,000	700,000
165	6	32	Maile Way	Resurface Roadway	Roadways		1,200,000	1,200,000
166	6	43	East-West Road	Resurface Roadway	Roadways		1,200,000	1,200,000
167	6	44	Lower Campus Road	Resurface Roadway	Roadways		220,000	220,000
168	6	126	UH Press	Resurface Roadway	Roadways	8,000	40,000	48,000
169	6	127	College of Ed/Lab School	Resurface Roadway	Roadways	25,000	150,000	175,000
170	6	128	SCB/MSB/CC	Resurface Roadway	Roadways	40,000	250,000	290,000
171	6	160	Magoon Lab	Resurface Roadway	Roadways	8,000	40,000	48,000
172	6	162	Motor Pool	Resurface Roadway	Roadways	10,000	50,000	60,000
173	6	167	Waikiki Aquarium	Resurface Roadway	Roadways	10,000	50,000	60,000
174	6	168	Mauna Kea	Resurface Roadway	Roadways	70,000	500,000	570,000
					Reroofing	1,083,000	7,980,000	9,063,000
					Energy Efficiency and HVAC Upgrades	3,600,000	59,000,000	62,600,000
					Student Sports Facilities	780,000	8,170,000	8,950,000
					Building Renewal and Upgrades	5,220,000	49,125,000	54,345,000
					Utility Repair and Upgrades	885,000	9,125,000	10,010,000
					Roadways	171,000	3,700,000	3,871,000
					Total Unfunded Campus Renewal and Deferred Maintenance	11,739,000	137,100,000	148,839,000