



TERRITORY OF
HAWAII

PUBLIC WORKS

FISCAL YEAR 1956

TERRITORY OF HAWAII
DEPARTMENT OF PUBLIC WORKS
HONOLULU

June 30, 1956

Honorable Samuel W. King
Governor, Territory of Hawaii
Iolani Palace
Honolulu, T. H.

Dear Governor King:

The Department of Public Works submits its annual report for the fiscal year ending June 30, 1956.

Construction contracts granted by this Department totaled about \$8,000,000, divided as follows: highways, \$5,519,354; airports, \$649,484; other public works, \$2,192,147.84. All islands shared in the benefits of this construction program.

The \$50,000,000 Hawaii gas tax revenue bond issue appears likely to receive final congressional approval before Congress adjourns in July. This measure will break a financial bottleneck on the highway system. The bond sales will let us complete Oahu's major commuter routes by 1961 and speed up completion of the improved Federal-aid highway system on all islands. The Legislature increased the Territorial fuel tax from four to five cents, effective July 1, 1955, to match a boost in Federal-aid allocations for highways of from \$2,464,524 to \$3,160,794 annually. The bonds will require no further tax increase.

However, Hawaii's motorists will pay an estimated \$2,000,000 more per year in Federal motoring taxes, effective July 1, 1956, according to our analysis of a measure which is expected to reach the President's desk next month. By shouldering this additional taxation, Hawaii will be contributing to the support of the new national highway program on the same basis as the states.

Hawaii's additional Federal-aid under the new legislation will average about \$732,000 a year for the first three years that the measure is in effect. Although Hawaii was omitted from the so-called interstate highway system, which will receive the greatest share of the new Federal highway aid, we are hopeful that the next Congress will correct this inequity. Delegate Elizabeth P. Farrington has proposed a measure designating a special defense highway system in Hawaii, and providing for a study of the means of financing it. Hawaii's military leaders have endorsed this proposal.

An improved salary scale for engineers has enabled us to recruit from the University of Hawaii's graduating class in engineering for the first time in four years. We were able to hire six of the June graduates, but we need 27 more at this level (Civil Engineer I) alone. Our starting salary is still as much as \$92 below that offered by various civil service systems on the West Coast. Our shortage of engineers for both highways and buildings is still critical. We have signed contracts with four private engineering firms for design work on Territorial highways.

The stepped-up highway program will mean a corresponding increase in land acquisition activities and their attendant difficulties. The Department has contracted for the preparation of a manual for appraisers, review and rights-of-way agents. Many of them will necessarily be new to this type of appraisal and acquisition work.

The Department is grateful to the Governor, his Advisory Committee on Highway Financing, Delegate Farrington, the Legislature, the City-County Planning Commission, the press, the Honolulu Chamber of Commerce and other community organizations for their cooperation and active support of the highway program.

Yours very truly,

Ben E. Nutter

Superintendent of Public Works

SUPERINTENDENT OF
PUBLIC WORKS
TERRITORY OF
HAWAII

BEN E. NUTTER

*Superintendent of Public Works
and Territorial Highway Engineer*

HAROLD W. BUTZINE

*Assistant Superintendent
of Public Works*

JOHN C. MYATT

*First Deputy Territorial
Highway Engineer*

TIM HO

Chief Public Works Engineer

ROBERT W. HENDRY

*Second Deputy Territorial
Highway Engineer*

ANDREW C. NICOLL

Administrative Assistant

FISCAL YEAR ENDING JUNE 30, 1956

ANNUAL REPORT

GENERAL PUBLIC WORKS

NEW BUILDINGS RANGE

FROM MODERN TO ANCIENT

General public works construction projects totaling \$4,636,238 reached completion or went under contract in fiscal year 1956.

They included farm lot and subdivision development work, and new buildings ranging from modern pre-fabricated sheet-metal jobs to grass-thatched huts built according to the finest Hawaiian standards of 1820.

The 31 projects included seven for the University of Hawaii and six for the Hawaii National Guard. The University opened its new branch at Hilo and moved books into a new three-story library on Oahu.

The following list summarizes general public works projects under contract in fiscal year 1956. Cost figures given for completed jobs represent total payment to the contractor, if final payment has been made. Other figures are original award amounts, including any contingency allowances, for the principal contract. None of the figures represents total cost, which would include design, administration and rights-of-way.

OAHU

Bureau of the Budget—Office and warehouse. Pre-fabricated steel-frame building. Completed April 20, 1956. \$42,284.

Hawaii National Guard Armory, Fort Ruger—Additions to washrooms in Buildings Nos. 261 and 262. To be completed July 13, 1956. \$5,338.

Highway Department—Two office buildings and one warehouse. Pre-fabricated steel-frame. To be completed about October 26, 1956. \$88,163.25.

Kahuku Hospital—Additions, alterations and improvements. New unit is fireproof, steel-frame and plaster construction. To be completed about July 31, 1956. \$152,900.

Kaneohe Civic Center—Split-level building with offices and assembly room. Hollow tile, shake shingle roof. To be completed about December 1, 1956. \$71,401.

University of Hawaii—Library. Three-story, reinforced concrete building with penthouse and basement. Completed February 29, 1956, except for installation of certain fixtures. \$1,236,108.

Alterations and additions to old library building. To be completed about September 30, 1956. \$204,589.

Agricultural buildings. Three hollow tile, steel and wood units, with asbestos roofing. To be completed about October 15, 1956. \$283,700.

Athletic building. One-story frame building with boxing-wrestling room, lockers and showers. Completed November 8, 1955. \$17,955.

Wahiawa Civic Center—Hollow tile and steel-frame building. To be completed about November 1, 1956. \$118,330.

Waimanalo Farm Lots—Construction of roadways, drainage, irrigation and water system facilities. To be completed about November 1, 1956. \$403,362.15.

Drilling, casing and capping one well, and installation of one pumping unit. To be completed about October 1, 1956. \$7,894.40.

Furnishing and testing deep well pump. To be completed about October 1, 1956. \$6,700.

Waimano Home—Five new dormitories and a new dining hall. Hollow tile. Completed October 31, 1955. \$489,188.33.

Construction of a 100,000-gallon steel water tank. Completed May 22, 1956. \$8,250.

HAWAII

Department of Public Works Baseyard—Construction of roadway and parking areas. Completed July 10, 1955. \$5,994.60.

Hawaii National Guard Armory, Olaa—Construction of a one-unit armory. Steel and hollow tile. To be completed about April 4, 1957. \$123,600.

Hawaii Vocational School—Construction of auto, carpenter and diesel shops and service buildings. Completed April 30, 1956. \$238,224.14.



University of Hawaii's new Hilo branch.

Hawaiian Village—Construction of seven thatched houses, a canoe shed and toilet building. To be completed about August 1, 1956. \$54,169.

Kulani Prison Camp—Furnishing pipes and pipe fittings for extension of water system by prison labor. To be delivered by July 15, 1956. \$15,237.52.

University of Hawaii, Hilo Branch—Six units. Frame buildings, corrugated iron roofs. Completed August 31, 1955. \$349,494.79.

Lanikaula Street extension to new campus. Completed October 10, 1955. \$35,474.31.

Construction of roadway and parking units. To be completed about August 15, 1956. \$12,141.26.

KAUAI

Hawaii National Guard Armory, Hanapepe—Alterations and additions. Completed September 23, 1955. \$30,388.83.

Hawaii National Guard Armory, Kapaa—Construction of a one-unit armory. Steel and hollow tile. To be completed about April 4, 1957. \$133,439.

Hawaii National Guard Armory, Kekaha—Alterations and rehabilitation. Completed July 21, 1955. \$44,970.80.

Hawaii National Guard Armory, Lihue—Painting and repairs. To be completed about September 1, 1956. \$6,075.

Hawaii Homes Commission Subdivision, Anahola—Construction of two 10-inch wells. Completed June 24, 1956. \$22,282.16.

Construction of reservoir, pumps, control building, pipelines, roads, electrical facilities. To be completed about March 30, 1957. \$300,478.59.

MAUI

Lahaina Branch Library—Hollow tile building. Completed September 29, 1955. \$65,104.

MOLOKAI

Kalaupapa Settlement—Construction of nine frame cottages. To be completed about November 1, 1956. \$79,406.

AIRPORTS

FOURTEEN JOBS IMPROVE FIELDS ON SIX ISLANDS

As construction agent for Hawaii Aeronautics Commission, the Territorial Department of Public Works supervised 14 airport construction projects, totaling \$876,315, during fiscal year 1956.

The Airport Division's biggest single job was a \$436,440 runway reconstruction and drainage project at Hilo's General Lyman Airport.

Airport projects under construction in the 1956 fiscal year are summarized in the following list.

Figures for completed contracts represent the total payment to the contractor. Other amounts listed are original contract award figures, including any allowances for contingencies.

General Lyman Airport—Small plane hangar. Completed November 27, 1955. \$17,250.

Reconstruction of Runway 3-21, improvement of drainage facilities. Completed June 20, 1956. \$436,440.

Installation of medium intensity lighting. To be completed about July 9, 1956. \$65,000.

Hana Airport—Pavement rehabilitation. To be completed about July 21, 1956. \$5,850.

Honolulu International Airport—Small plane hangars. Completed September 14, 1955. \$66,334.86.

Paving taxiways at small plane hangar area. Completed September 15, 1955. \$11,308.53.

Painting hangar No. 9. Completed March 26, 1956. \$8,493.

Baseyard Building. Pre-fabricated steel and steel-frame construction. Completed June 6, 1956. \$104,300.

Kamuela Airport—Installation of medium intensity runway lighting. Completed June 8, 1956. \$54,318.

Kona Airport—Pavement rehabilitation. Completed January 18, 1956. \$6,116.49.

Lanai Airport—Rehabilitation of pavement. Completed October 7, 1955. \$11,964.10.

Lihue Airport—Rehabilitation of pavement. Completed September 30, 1955. \$5,187.55.

Alterations and additions to terminal building. Completed April 12, 1956. \$39,252.93.

Molokai Airport—Installation of medium intensity runway lighting. Completed June 14, 1956. \$44,500.

GENERAL PUBLIC WORKS (Continued)

<i>Project and Location</i>	<i>Contractor</i>	<i>Date</i>	<i>Amount</i>
Construction of roadway and parking areas at Hilo Branch, University of Hawaii, Hilo, Hawaii	S. K. Oda	June 4, 1956	12,141.26
Construction of Olaa Armory, Hawaii National Guard, Olaa, Hawaii	S. K. Oda	June 6, 1956	123,600.00
Construction of Kapaa Armory, Hawaii National Guard, Kapaa, Kauai	I. Matsumura	June 6, 1956	133,439.00
Construction of two office buildings and one warehouse, Territorial Highway Department, Oahu	South Pacific Contracting Co., Ltd.	June 26, 1956	88,163.25
Construction of reservoir, pumps, control building, pipelines, roads and electrical equipment, Hawaiian Homes Commission subdivision at Anahola, Kauai	J. M. Tanaka	June 29, 1956	300,478.59
		TOTAL	<u>\$2,192,147.84</u>

AIRPORTS

<i>Project and Location</i>	<i>Contractor</i>	<i>Date</i>	<i>Amount</i>
Rehabilitation of pavement at Lanai Airport	Hawaiian Bitmuls Co., Ltd.	Aug. 5, 1955	\$ 11,964.10
Paving taxiways at small plane hangar area, Honolulu International Airport	Hawaiian Bitmuls Co., Ltd.	Aug. 15, 1955	11,308.53
Rehabilitation of pavement at Lihue Airport, Kauai	Hawaiian Bitmuls Co., Ltd.	Aug. 22, 1955	5,187.55
Installation of medium intensity runway lighting, Kamuela Airport, Waimea, Hawaii	Aruda Electric	Sept. 6, 1955	54,318.00
Installation of medium intensity runway lighting, Molokai Airport	George Okano Electrical Service, Ltd.	Dec. 7, 1955	44,500.00
Pavement rehabilitation, Kona Airport, Hawaii	James W. Glover, Ltd.	Jan. 5, 1956	6,116.49
Improvement of drainage facilities, General Lyman Field, Hawaii	James W. Glover, Ltd.	Jan. 18, 1956	436,440.00
Painting Hangar No. 9, Honolulu International Airport, Oahu	Walter W. Inoue	Jan. 25, 1956	8,800.00
Installation of medium intensity runway lighting, General Lyman Field, Hawaii	American Electric Co., Ltd.	Feb. 10, 1956	65,000.00
Pavement rehabilitation of Hana Airport, Maui	Hawaiian Bitmuls Co., Ltd.	June 6, 1956	5,850.00
		TOTAL	<u>\$ 649,484.67</u>

DEPARTMENT OF HIGHWAYS ANNUAL EXPENDITURES
Fiscal Years 1952 - 1956

	1952	1953	1954	1955	1956	Total
Administration	\$ 83,135.31	\$ 90,854.06	\$ 113,020.10	\$ 180,726.00	\$ 175,556.65	\$ 643,292.12
Land Acquisition	2,042,176.25	1,048,779.76	1,575,765.10	1,316,253.12	2,920,111.64	8,903,085.87
Design & Construction . .	7,519,381.36	7,917,060.64	6,927,082.74	6,405,759.04	6,050,312.88	34,819,596.66
Operation & Maintenance	995,162.61	1,080,153.91	1,101,614.47	1,537,187.62	1,389,582.39	6,103,701.00
Total	\$10,639,855.53	\$10,136,848.37	\$9,717,482.41	\$9,439,925.78	\$10,535,563.56	\$50,469,675.65

AVERAGE PER YEAR FOR ABOVE ACTIVITIES

Administration	\$ 128,658.42
Land Acquisition	1,780,617.17
Design & Construction	6,963,919.34
Operation & Maintenance	1,220,740.20
Total	\$10,093,935.13

SERVICES RENDERED BY DEPARTMENT OF PUBLIC WORKS
PAYABLE OUT OF FUNDS OF OTHER DEPARTMENTS
Fiscal Year 1956

Department	Maintenance & Operation	Design & Construction	Total
Adult Probation	\$ 108.78	\$ --	\$ 108.78
Board of Agriculture & Forestry	--	173.30	173.30
Territorial Archives	680.46	--	680.46
Territorial Auditing Department	151.92	--	151.92
Bureau of the Budget	436.81	46,849.90	47,286.71
City & County Building Department	--	2,673.89	2,673.89
Bureau of Plans, City & County	--	188.68	188.68
Division of Sewers, City & County	--	251,195.18	251,195.18
Fair Commission	113.11	--	113.11
Fire Marshal's Office	180.86	--	180.86
First Circuit Court	309.26	--	309.26
Governor's Office	849.12	--	849.12
Board of Harbor Commissioners	10,079.33	2,957.99	13,037.32
Hawaii Aeronautics Commission	--	636,058.51	636,058.51
Department of Health	1,907.30	--	1,907.30
Department of Institutions	1,730.07	--	1,730.07
Department of Public Instruction	1,989.87	--	1,989.87
Hawaii Irrigation Authority	3,146.95	14,289.62	17,436.57
Department of Labor & Industrial Relations	31,619.14	--	31,619.14
Juvenile Court	316.98	--	316.98
Land Commissioner	2,929.40	295,466.44	298,395.84
Library of Hawaii	561.92	--	561.92
McKinley High School	148.62	--	148.62
Secretary of Hawaii	315.58	--	315.58
Bureau of Sight Conservation	635.52	--	635.52
Survey Department	459.42	--	459.42
Tax Commissioner	4,105.55	--	4,105.55
University of Hawaii	--	4,675.58	4,675.58
Department of Public Welfare	--	16,742.70	16,742.70
Hawaii National Guard	--	22,891.77	22,891.77
Hawaiian Homes Commission	2,106.50	28,369.49	30,475.99
County of Hawaii	--	281.60	281.60
Economic Planning and Coordination Authority	1,496.41	--	1,496.41
Hawaii Housing	1,135.37	--	1,135.37
Board of Accountancy	51.08	--	51.08
County of Kauai	--	277.70	277.70
County of Maui	--	183.97	183.87
Total	\$67,565.33	\$1,323,286.32	\$1,390,851.65