

5th Ind.

HEADQUARTERS HAWAIIAN DEPARTMENT,
 Ft. SHAFTER, T. H.,
 July 24, 1941.

To: Commanding General, Hawaiian Separate Coast Artillery Brigade, Ft. DeRussey, T. H.

1. To note and return to this headquarters.
2. The Department Engineer will be directed to include this project in the next revision of the Hawaiian Defense Project and to prepare plans for the execution of this work when funds are received.

By command of Lieutenant General Short:

O. M. McDole,
 Major, A. G. C.,
 Assistant Adjutant General.

A true copy:

Edward von Geldern
 EDWARD VON GELDERN,
 2nd Lt., F. A.

(Basis: Jar., HHD, Engr. 000.91, 27 February 1941, subject: "Camouflage of Defense Installations.")

6th Ind.
 HQ, H. S. C. A. BRIGADE, Ft. DeRussey, T. H., July 29, 1941--To CG Haw. Dept.

Noted.

FULTON Q. C. GARDNER,
 Major General, U. S. Army,
 Commanding.

A True Copy:

Edward von Geldern,
 EDWARD VON GELDERN,
 2nd Lt., F. A.

[Exhibit 1A]

[1]

[SECRET]

HEADQUARTERS HAWAIIAN DEPARTMENT,
 OFFICE OF THE DEPARTMENT COMMANDER,
 Fort Shafter, T. H., 19 February, 1941.

Engr. 611

Subject: Military Roads and Trails Program, Hawaiian Department.

To: The Adjutant General, Washington, D. C.

1. Reference is made to letter, Engr. 611, this headquarters, 8 November 1940, covering the recommendations for the revision of the military Roads and Trails Program. As indicated in paragraphs 5 and 8 of that letter, the revised program was not complete and additional roads and trails were under consideration.

2. A detailed study made by this headquarters indicates that the following additional improvements are necessary:

a. Wiliwilinui road and trail improvement, estimated cost \$33,550.00. Construction covering improvement of the existing 15,000 lineal feet of road at Wiliwilinui Ridge, eliminating sharp curves and providing adequate turnouts. It also covers construction of a 6-foot pack trail extending from the end of the existing road to the main crest of Koolaupoko Ridge area.

b. Improvement of Pupukea-Kahuku trail estimated at \$12,720.00. This project consists of the general widening of the existing trail from 3 to 6 feet along its 13,000-foot alignment. This improvement will provide desirable communication between the northeasterly section of the Island and northern end of Wahiawa-Pupukea trail.

c. Coincidental with the improvement of the Koolau Ridge trail, feeder trails to the ridge should be developed and improved. As a part of its reforestation program, the CCC has constructed several trails from forest reserve boundaries to the main ridge of the Koolau along the lateral ridges. These trails, shown in the following list, should be partially relocated and improved as 6-foot pack trails:

(1) Poamono trail, 22,800 feet, estimated cost.....	\$35, 100. 00
(2) Kawailoa trail, 24,000 feet.....	22, 750. 00
(3) Schofield-Waikane, 33,000 feet.....	45, 750. 00
(4) Waiawa trail, 30,000 feet.....	28, 650. 00

d. A road to Fuu Palailai. This project ——(copy illegible)—— of a 10' class "B" supply road extending from the main government road to Fuu Palailai. This road is desired to improve access to a group of fire control stations manned by a detail of from 50 to 100 men. The approximate length of this road is 8,700 feet and estimated cost \$10,000.00.

e. Iunia-Palehua road. This project will connect an existing plantation road with the Palehua spur via the Mauna Kapu and the Honouliuli trails. The need for an alternate route to the Manauhua Defense Area is extremely important, particularly in view of the exposed condition of the Palehua road to hostile observation. This project calls for the construction of 24,000 lineal feet of a 10-foot class "B" road at an estimated cost of \$136,500.00.

f. Radial Ridge roads, Manauhua area. This project calls for the construction of three roads along the ridges, south and west of Fuu Nanauhua as shown on the attached map. These roads serve vital defense areas which must be made accessible to truck transportation. The total length of these ten-foot roads is approximately 20,000 feet and the estimated cost of construction is \$84,900.00.

3. These additional roads and trails have been combined with the 19 items listed in paragraph 7 of letter, this headquarters, file Engr. 611, 8 November 1940, and are shown in the table below in order of their relative priority. The location of each item is shown on the map, scale 1/125,000, Inclosure No. 1 hereto.

1. Fort Weaver 155-mm position Road, 10' Class B.....	\$8,900
2. Fort Roger Roads, 10' Class B.....	4,000
3. Barbors Point East 3L Pos. Trail, 3L Trail.....	1,000
4. Maili Marker 3L Position Trail, 3L Trail.....	6,000
5. Maililili 3L Position Trail, 3L Trail.....	1,400
6. Eaena Point 3L Position Trail, 3L Trail.....	1,000
7. Wailoa Point 3L Position Trail, 3L Trail.....	1,000
8. Completion of Barbors Point Road Net, Class A.....	133,000
9. North Shore RR Connection, R. R.....	250,000
10. Improvement Waiakua Pupukea Road, 10' Class A & B.....	216,000
11. Waimoa-Pupukea Road, 10' Class B.....	35,000
12. Alternate RR Schofield-Waihuau Bypass, R. R.....	70,000
13. Connection-Leilohua Spur to Oahu Sugar Co. tracks (rail only) R. R.....	48,600
14. Ordnance Magazine Area, Schofield 25' Class A.....	33,000
15. Feeder Roads Waihuau Pupukea Road, Improvement.....	111,800
16. Eahuku 155-mm Position Road, 10' Class B.....	9,500
17. Rahuku CP Trail, CP Trail.....	2,100
18. Kepuhi CP Trail, CP Trail.....	8,000
19. Koolau Ridge Trail, 6' Pack Trail.....	20,000
20. Wiliwili Road, Improvement.....	17,900
21. Wiliwili Trail, 6' Pack Trail.....	15,650
22. Poamoho Trail, 6' Pack Trail.....	35,100
23. Pupukoa-Mahuhu Trail, 6' Pack Trail.....	12,720
24. Hawaiian Trail, 6' Pack Trail.....	22,750
25. Schofield-Waihuau Trail, 6' Pack Trail.....	45,750
26. Waiwan Trail, 6' Pack Trail.....	28,650
27. Pau Palailai CP Road, 10' Class B.....	10,000
28. Eunia-Palahu Road, 10' Class B.....	135,500
29. Ridge Roads, Mamamam Area, 10' Class B.....	34,900
	1,370,020

4. It is recommended that the roads and trails program shown in the table above be approved in lieu of the present program approved in 4th Indorsement (AG 611 Hawaii) (3-31-38) (Misc.) (X) dated 23 May 1939, on War Department letter (AG 611 Hawaii) (3-28-38) (Misc. WPD) dated 31 March 1938, subject: "Military Priority Highways in the Hawaiian Department". It is further recommended that the sum of \$1,370,020.00 be allotted to this department as soon as possible to permit early completion of this program.

WALTER C. SHORT,
Lieutenant General,
Commanding.

1 Incl: Map

A True Copy:

Edward Von Geldern

EDWARD VON GELDERN,

2nd Lt., F. A.

Subject: Military Roads and Trails Program, Hawaiian Department.

AG 611 Hawaii (2-19-41)M

1st Ind.

AGW/ric

WAR DEPARTMENT, A. G. O.,

February 27, 1941.

To: Chief of Engineers and Chief of Coast Artillery, *IN TURN*.

For remark and recommendation, reference being made to files C. of E. 611 (Haw) 10 and OCGA 611/45 A 7.

By order of the Secretary of War:

Adjutant General.

1 Incl. a/c

C. of E., March 12, 1941.—

To: The Chief of Coast Artillery.

1. Items 1 to 19, inclusive, in this program were approved for inclusion in the Hawaiian Defense Project in 3rd Indorsement dated February 18, 1941, AG 611 Hawaiian Department (11-8-40)M-WPD; OCGA 611/45 A 7; C. of E. 611 (Hawaii) 10. It was further directed that the Commanding General confer with Mr. Moskowitz, the representative of the Commissioner of Public Roads in Hawaii, with a view to securing the maximum aid permissible from the Public Roads Administration for the accomplishment of the construction authorized Federal Highway Act of 1940. It was also directed that a revised estimate be submitted covering Items 9, 12 and 13. The above action was not available to the Commanding General at the time of preparation of basic paper.

2. Items 20 to 29, inclusive, are new items of work. The estimated cost appears reasonable, and their inclusion in the program is recommended.

3. Attention is invited to letter from the Commanding General Hawaiian Department dated February 19, 1941, subject: "Construction of North Shore Railroad Connection" file Engr. 611; AG 112.05 (2-19-41)M; C. of E. 611 (Hawaii) 11 in which it was recommended that funds in the amount of \$230,000 be allotted as soon as possible to initiate construction. The item referred to is included in this paper as item 9.

For the Chief of Engineers:

[S] George Mayo,
GEORGE MAYO,
Lt. Col. Corps of Engineers,
Chief, Fortification Section.

1 Inclosure n/c.

611/45A-10

3rd Ind.

5.

WAR DEPARTMENT,
OFFICE, CHIEF OF COAST ARTILLERY,
March 15, 1941.

To: The Adjutant General.

1. The remarks and recommendations of the Chief of Engineers appearing in the 2nd Indorsement are concurred in.

2. In addition to the funds referred to in paragraph 1, 2nd Indorsement, \$300,000 is included in current Seacoast Defense estimates for application on items Nos. 9, 12 and 13 (railroad construction projects).

For the Chief of Coast Artillery:

[S] E. T. BLOOD,
Colonel, C. A. C., Executive.

1 Incl. n/c

A True Copy:

Edward Von Geldern,
EDWARD VON GELDERN,
2nd Lt. F. A.

Subject: Military Roads and Trails Program, Hawaiian Department.

AG 611 Hawaii (2-19-41) M-WPD 4th Ind.

ESA

WAR DEPARTMENT, A.G.C.,
April 1, 1941.

To: Commanding General, Hawaiian Department.

1. Attention is invited to the preceding 2d and 3d Indorsements.

2. The program for road, trail and railroad construction contained in paragraph 3, basic communication, is approved for inclusion in the Hawaiian Defense Project in place of the road, trail and railroad program approved by 3d Indorse-

ment, February 18, 1941, to the letter, subject: "Military Road and Trail Program, Hawaiian Department", AG 611 Haw. Dept. (11-8-40) H-WPD.

3. It is desired that you submit a breakdown of the items contained in the road and trail program approved herein to show the expenditures contemplated for augmentation and for maintenance. In this connection, attention is invited to your 1st Indorsement, January 16, 1941, to the letter, subject: "Maintenance and repairs of Fortifications, Estimate of Funds for FY 1943" (Engr. 121.2, Forts), in which you request funds for the maintenance of roads. The breakdown requested is necessary to insure that no duplication will be encountered in the defense of estimates to be submitted for the completion of this program.

By order of the Secretary of War:

Major General, The Adjutant General.

Incl. w/d

A True Copy:

Edward Von Geldern,
EDWARD VON GELDERN,
2nd Lt. F. A.

Proposed program, tactical items

Priority			Type		Estimated cost by troop constr.
Old	Rec.		Present	Rec.	
25	1a	Schofield-Walkana	Pack Trail	Motor Trail	\$170,000
28	b	Kunia-Palchua	Motor Trail	10' WB Macadam	75,000
23	c	Pupukea-Black Junction	Pack Trail	Improve	12,720
32	d	Poanoho Trail	Foot Trail	Improve	10,000
20	e	Wiliwili Road	Dirt Road	10' Class B	17,900
21	f	Wiliwili Trail	Foot Trail	Pack Trail	10,000
1	2a	Fort Weaver-155mm Gun Positions.	None	10' Class B	8,900
2	b	Fort Ruger Roads	None	10' Class B	4,000
3	c	Barbers Point East SL Route	None	SL Trail	1,000
4	d	Mailli Marker SL Route	None	SL Trail	6,000
5	e	Maillūli SL Route	None	OL Trail	6,600
8	3a	Barbers Point Road Net Paving	Coral Roads	Paved Motor Roads	75,000
10	b	Wahiawa-Pupukea Paving	Motor Trail	10' Class A & B	200,000
6	c	Koera Point SL Route	None	SL Trail	1,000
7	d	Wailea Point SL Route	None	SL Trail	1,000
17	e	Fahuhu CP Route	None	OP Trail	2,100
11	4a	Waimea Pupukea	Foot Trail	10' Class B	45,000
None	4	Alternate Crossing S. Faloraun Gulch.	Raised Ford	Bridge	6,000
14	5a	Ordnance Magazine Area, Schofield Barracks.		22' Class A	33,000
20	b	Mananahua Ridge Route	Motor Trail	Water Bound Macadam.	74,900
19	c	Koolau Ridge Trail	Foot Trail	Improve	
24	d	Kaiwailon Trail	Foot Trail	Improve	
26	e	Waiawa Route	Foot Trail	Improve	
15a	6a	Haleiwa-Opacula Approach Road	Dirt Road	Improve	} 111,800
15b	b	Fawaloe-Anahulu " "	Dirt Road	Improve	
15c	c	Ashley Station " "	Dirt Road	Improve	
18	d	Kopuhi OP Route	Foot Trail	Improve	
16	7a	Kahuku-155mm Gun Positions	Dirt Road	10' Class A	
27	b	Fua Palailai OP Route	Foot Trail	10' Class B	9,300
		Total			\$901,020

A True Copy:

Edward von Geldern,
EDWARD VON GELDERN,
2nd Lt. F. A.

[7] Engr. 511

5th Ind.

HEADQUARTERS, HAWAIIAN DEPARTMENT,
Fort Shafter, T. H., 26 May 1941.

To: The Adjutant General, Washington, D. C.

1. Reference is made to the following correspondence:

a. AG 611, Haw. Dept. (11-8-40) M-WPD; Military Road and Trail Program, Hawaiian Department.

b. AG 660 (4-19-41) M; Expenditure Program, Seacoast Defense Fund, Fiscal Year 1942.

c. Eng. 121.2 (Forts); Maintenance and Repair of Fortifications, Estimate of Funds for Fiscal Year 1943, (cited in Paragraph 3, 3rd Indorsement above).

2. a. Road, trail and railroad program submitted in reference a was approved by War Department 3rd Indorsement, February 18, 1941, subject to the following:

(1) That Mr. Moskowitz be contacted to secure a maximum of the unobligated portion of \$446,000.00, previously allotted the PRA for Hawaii, for the construction of the road and trail items in the approved program.

(2) That revised estimates be submitted for the railroad items in the approved program.

b. 4th Indorsement, this headquarters, April 4, 1941, submitted the following:

(1) Recommendation that \$446,000.00 available to the PRA be not diverted from the purpose for which originally allotted, namely, construction of the Wahiana cut-off and the Kolokolo-Waiamoia Road.

(2) Revised estimates for the railroad items and reduced estimates for the road and trails portions of the program by the \$70,400.00 made available on December 7, 1940.

(3) Cross-referenced the originally approved program, items 1-19 inclusive, with the additional items, 20-29 inclusive, approved herein and submitted revised estimates in the amount of \$951,020.00 for the road and trail items and \$298,000.00 for the railroad items. The total cost, \$1,249,620.00 supersedes estimate of \$1,370,020.00 reported in basic letter herewith.

[8] 3. Reference b informed this headquarters that regular estimates for Seacoast Defense funds, FY 1942 include \$300,000.00 for the construction of the railroad items and \$50,000.00 for road and trail items. Release of these funds will cover the construction of the railroads (\$298,600.00) and will reduce the required funds for the completion of the roads and trails to \$901,020.00.

4. a. Reference c submitted estimates in the amount of \$286,000.00 for the upkeep of military roads and trails during FY 1943. These estimates were based upon the maintenance of these roads and trails already constructed in this department, since at the time of submission, the augmentation program did not have War Department approval. The great increase in FY 1943 estimates over those of previous years has been due primarily first, to the necessity of procuring new plant and equipment as replacements for outworn units and second, to the necessity supplanting WPA employees with hired labor as a result of the increasing non-availability of the former.

b. The breakdown of the \$286,000.00 estimate showed the proportional amounts of the total which would be expended on existing roads and trails. In view of the approval by 4th Indorsement of the revised road, railroad, and trail program, which contains funds for the improvement of certain existing roads, the original breakdown of FY 1943 maintenance estimates is no longer applicable. Specifically, maintenance funds for the Wahiana-Purukea Road and Barbers Point Road net can be reduced considerably; at the same time, however, the construction of new roads and trails during FY 1943 and ensuing years. Attached as inclosure No. 1 is a revised tabulation of maintenance funds required during FY 1943 for all existing roads and trails and those to be constructed under the approved program. This breakdown shows specifically the purposes for which these funds will be expended. Revised estimates decrease the funds originally requested by \$34,000.00.

c. 1st Indorsement, January 16, 1941, which forwarded the estimates cited in paragraph 5a, recommended immediate release of \$100,000.00 of the \$286,000.00. This \$100,000.00 is necessary for the purchase of materials and additional plant and the hiring of labor for the maintenance of long neglected existing roads and trails, funds for the improvement of which have not been included in the approved augmentation program.

[9] 5. As explained in the foregoing paragraphs, there is no duplication in the funds still required for the construction of the approved augmentation program, \$1,249,620.00 or \$901,020.00 if the \$350,000.00 in FY 1942 estimates is made available and the funds, totaling \$252,000.00, required for maintenance; the \$1,249,620.00 construction estimate includes no funds for maintenance and the \$252,000.00 maintenance estimate includes no funds for new construction.

6. It is recommended:

a. That in accordance with the revised estimates cited in paragraphs 3b (3) and 4, above, funds in the amount of \$901,020.00 for the completion of the approved road, trail and railroad program be included in FY 1942 estimates to supplement the \$350,000 expected to be released.

(b) That the revised estimates in the amount of \$252,000.00 be substituted for the \$236,000.00 now included in FY 1943 estimates for the maintenance and repair of military roads and trails and that \$100,000.00 of this amount be released to this department during FY 1942.

WALTER C. SHORT,
Lieutenant General, U. S. Army,
Commanding.

1 Incl: Revised estimate.

A true copy:

Edward Von Geldern,
EDWARD VON GELDERN,
2nd Lt., F. A.

[10] Subject: Military Roads and Trails Program, Hawaiian Department.
AG 611 Hawaii (2-19-41) MC 6th Ind. 21-H/agh-1712

WAR DEPARTMENT, A. G. O., June 9, 1941.

To: Chief of Coast Artillery and Chief of Engineers, IN TURN:

For remark and recommendation.

By order of the Secretary of War:

1 Incl. n/o

Adjutant General.

611/45-A-10

7th Ind.

3.

WAR DEPARTMENT,
Office, Chief of Coast Artillery,
June 12, 1941.

To: Chief of Engineers.

1. The records of this office indicate that the necessary action has been taken with a view to accomplishing the recommendations appearing in paragraph 6 a of 5th Indorsement, assuming that that portion of the recommendation reading "FY 1942" was intended to read "FY 1943".

2. With respect to the recommendation appearing in paragraph 6 b of 5th indorsement, preliminary estimates for FY 1943 do not now include a specific item for maintenance and repair of military roads and trails. The total sum now appearing in the preliminary estimates FY 1943 under Project 11—Alteration, maintenance and repair of fortifications—is \$225,000. FY 1942 estimates for Project 11 total \$173,710. The portion of these funds to be applied to maintenance of roads and to strictly fortification works appears to be discretionary with the Commanding General, Hawaiian Department. However, the basis for estimating these funds for FY 1941 included specifically \$59,000 as applicable to road maintenance.

For the Chief of Coast Artillery:

LEONARD L. DAVIS,
Lt. Col., C. A. C.,
Assistart.

1 Inclosure
(Dup. w/d).

A true copy:

Edward von Geldern,
EDWARD VON GELDERN,
2nd Lt., F. A.

[11] C. of E. 611 (Hawaii).
Subject: Military Roads and Trails Program, Hawaiian Department.

8th Ind.

6-E

OFFICE, C. OF E.,
July 1, 1941.

To: The Adjutant General.

1. Reference paragraph 6 a of 5th Indorsement and paragraph 1 of preceding Indorsement, it is recommended that authority be granted to include the \$901,020 required for the completion of the approved road, trail and railroad program in the supplemental estimates for Fiscal Year 1943 at the first opportunity.

2. The remarks of the Chief of Coast Artillery in paragraph 2 of 7th Indorsement are concurred in.

For the Chief of Engineers:

GEORGE MAYO,
Lt. Col., Corps of Engineers,
Chief, Fortification Section.

1 Inclosure n/c.
CG of OCCA

A True Copy:

Edward Von Geldern,
EDWARD VON GELDERN,
2nd Lt., F. A.

[12] Subject: Military Roads and Trails Program, Hawaiian Department.
AG 611 (2-10-41) MC-K 9th Ind. EGA
WAR DEPARTMENT, A. G. O., July 18, 1941.
To: Commanding General, Hawaiian Department.

1. Funds in the amount of \$300,000 for railroads and \$50,000 for roads and trails are now available from FY 1942 appropriations for construction contained in the approved Road, Trail, and Railroad Program. These funds will soon be released to the District Engineer. Additional funds in the amount of \$900,000 have been included in tentative estimates, FY 1943 for the completion of the approved Road and Trail Program. This latter amount will be requested at an earlier time in the event that further supplemental FY 1942 estimates are prepared.

2. General maintenance funds to the amount of \$173,710 are now available from FY 1942 appropriations and a substantial amount thereof has been released to the District Engineer, Honolulu. The portion of these funds to be applied to the maintenance of roads is discretionary with you. Additional general maintenance funds to the amount of \$223,000 have been included in preliminary estimates, FY 1943.

3. An additional amount of \$140,000 will be included at the first opportunity in estimates to be submitted to provide further funds for maintenance of roads and trails in your department.

By order of the Secretary of War:

Major General,
The Adjutant General.

Incl. w/d

A true copy:

Edward Von Geldern,
EDWARD VON GELDERN,
2nd Lt., F. A.

[EXHIBIT 113]

Via "Cable"
NY 3544
Encl. 00017

Commander,
Fort Shafter, T. H., 5 April '41

[EXTRACT]

Subject: Construction at Bellows Field, T. H.
To: The Adjutant General, Washington, D. C.

1. Reference is made to let Inclosurement, The Adjutant General's office, file AC 370.5 (2 15 41) M D, dated 5 March 1941 which authorized the permanent assignment of the 86th Observation Squadron and the 38th Bombardment Squadron at Bellows Field.

* * * * *

5. The improvement of the runway consist in lengthening the present runway from about 2800' to 3400' and widening from 150' to 300'. The new runway is 5000' long and 300' wide. Cross-connection the existing and the new runway is a paved taxi strip and parking strip 300' wide and 2200' long with a servicing mat 300' x 600' adjacent to the taxi strip. All runways, servicing mats and taxi strips will be asphaltic concrete. Other installations required are an airplane control tower and an auto-gauging system of 600,000 gallon capacity. The necessary tanks for this gasoline system are on hand. A complete system of airport lighting and sewer, water, and power utilities will be necessary. Miscellaneous installa-