

4756

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton., Director

State Hawaiian Islands

DESCRIPTIVE REPORT

Topographic } Sheet No. Z 4756
Hydrographic }

LOCALITY

Northeast Coast of Oahu I.

Hanalei to Laie

1933

CHIEF OF PARTY

Hubert A. Patton.

U. S. GOVERNMENT PRINTING OFFICE: 1928

DECLASSIFIED BY NGA
PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION
2.2.1.1 EXECUTIVE ORDER 12356

DESCRIPTIVE REPORT
to accompany
SHEET "Z"

NORTHEAST COAST OF OAHU
HAUULA TO LAIE

INSTRUCTIONS:

The work on this sheet was done in accordance with instructions dated July 14, 1931, and in cooperation with the U.S. Army. Its purpose was merely to furnish control for the hydrographic survey and to locate the high water line.

JUNCTIONS:

T-4757

T-4755

This sheet joins Sheet "Y" on the south and Sheet "A.A." on the north. Closure with the former was made at Station Waimanana and at Signal Ult with the latter.

CONTROL:

Two U.S.C. & G.S. Triangulation stations are located on this sheet. In addition a station established by the Hawaiian Territorial Survey (Waimanana) was adjusted to the 1930 Standard Datum and incorporated in the control of this sheet.

METHODS AND CLOSURES:

Signals about 400 meters apart were located in advance of the detailed topography. The traverse was started at Station Waimanana. At Signal Hed a three point problem gave a good check ^{on error} of the traverse and of two meters short in distance corrected. The traverse was then continued to Station Laie, where the error was again found to be two meters short in distance. These errors were distributed proportionally until negligible. The remainder of the traverse had no check.

It was impossible to land on Mokualei and Kukuhihoolua Islands while this survey was being made. Four natural objects were "cut in" on each however and the shore line sketched in by this means. The north and east sides of the islands could not be seen very well and the location of these portions may be in error slightly. It is intended to make an attempt to land on these islands while doing the hydrography and locate the shore line with sextant fixes.

The low water line on this sheet was located by the hydrographic party at spring low water tides.

NEW NAMES:

The following names are in common use:- Kaipapau Point, Laniloa Point.

MISCELLANEOUS

The small pond south of Signal Grey is very deep, people in the locality being unable to reach bottom with a 60-foot sounding line. It has no visible inlets or outlets.

The declination obtained at Station Waimanana indicates local attraction. The station is located on one corner of a reinforced concrete bridge and the steel in the bridge may be causing the error.

Respectfully submitted,

Hubert A. Paton

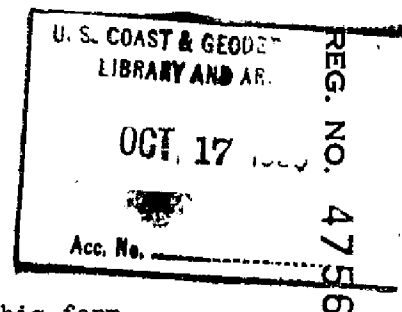
Hubert A. Paton,
Lieut., U.S.C. & G.S.

PLANE TABLE POSITIONS
SHEET "2"

Object and Description	Lat.	D.M.	Long.	D.P.	Height
ULT, East gable, lone boat house	21°39'	876	157°55'	1562	8 feet
WA, " " , south " " , of two	"	663	"	1470	8 "
BLU, East cor. blue ho., green roof	"	532	"	1327	10 "
Laie School, flag pole	"	279	"	1175	30 "
AIM, 6x6" post, above large white & black sign painted on cliff (Army Aiming Point?)	"	76	"	383	10 "
GREY, Northeast corner grey house	"	185	"	924	
MOR, Southeast corner, top, Mormon Temple	"	45	157°56'	8	40 "
TANK, small, black	21°38'	1204	157°55'	1547	12 "
LAD, Ladder on side of large white tank	"	837	"	1000	20 "
CHIM, Chimney, Mr. Scott's house	"	576	"	514	20 "
PIER, Southeast pile, old pier	"	315	"	573	4 "
L60 Southeast corner bridge, Laiemaloo Stream	"	269	"	764	
northeast corner Laiemaloo Church	21°37'	1404	"	794	15 "
STAT, Statue	"	1218	"	498	8 "
PAP, Southeast cor. bridge, Kaipapau Stream	"	391	157°54'	1713	
ROW, south gable, brown shed	"	200	"	1626	
southeast cor. bridge, Makua Stream	"	152	"	1649	
northeast corner red church	21°36'	1700	"	1526	20 "
Flag pole, Hauula Park	"	1600	"	1386	30 "
southeast cor. bridge, Muliwai Stream	"	1500	"	1333	
RED, N.E. gable, yellow house, red roof	"	1448	"	1257	
ULA, east corner, green house	"	1331	"	1212	
East cor. M. Sagami Store	"	1203	"	1172	
N.W. cor. Koolauloa Police Station	"	1128	"	1060	
N.E. cor. bridge, Maheiw Stream	"	1110	"	824	
Federal Aid Project post 1195+00	"	1096	"	769	3 "
FAL, tourist sign "Sacred Falls"	"	1002	"	579	7 "
Federal Aid Project post 1185+00	"	960	"	494	3 "
POLE, white, near water tank	"	1585	157°55'	259	
Federal Aid Project post 1175+00	"	774	157°54'	253	3 "

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET



The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. Z.....

REGISTER NO. 4756

State.....Hawaiian Islands.....

General locality.....N.E. Coast of Oahu East Coast.....

Locality.....Laneto Kapakai Pt.

Scale 1:5000 Date of survey April , 1933

Party ~~U.S. Army~~ Inshore Hydrographic Survey of Oahu

Chief of Party.....Hubert A. Patch.....

Surveyed by.....H. A. P.

Inked by.....H. A. P.

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated.....July 14th....., 1931

Remarks: Surveyed in cooperation with the U. S. Army

REVIEW OF TOPOGRAPHIC SURVEY No. 4756

Title (Par. 56) *Lane to Kalaipalua Point, Northeast Oahu, Hawaiian Islands*

Chief of Party *H.A. Paton* Surveyed by *H.A. Paton* Inked by *H.A. Paton*

Ship *Shore party* Instructions dated *July 14, 1931* Surveyed in *April 1933*.

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)
None
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) *None*
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *None submitted*
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
10. The span, draw and clearance of bridges are shown. (Par. 16c.) *no navigable streams* —
11. ~~Locations and elevations of summits are given.~~ (Par. 19, 51.)
12. ~~The tree line was shown on mountains.~~ (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of IMs and DPs, 68.) *and scaling checked Rff* ✓
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was shown and declination was checked. ✓ (Par. 17, 52.) *Two meridians shown, the one at Waimanana shows local attraction, see Desc. Rep. The other one checks with the charts.*
18. The geographic datum of the sheet is *Old Hawaiian* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) *Laniloa Point appears to be the local name for the outer part of Laie Point.*
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report. ~~after review by~~
24. Remarks:

Reviewed in office by *R. J. Christman, Feb. 20, 1934*

Examined and approved: *[Signature]* *JRB*