

4753

U. S. COAST & GEODETIC SURVEY
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SEP 4 1933

DESCRIPTIVE REPORT

to accompany

SHEET DD

NORTHWEST COAST OF OAHU

MOKULEIA TO KAWAIAPAI

INSTRUCTIONS:

The survey of this sheet was made in cooperation with the U. S. Army, in accordance with instructions of the Director, U. S. Coast & Geodetic Survey, dated July 14, 1931. Additional verbal instructions were received from the Chief of Engineers, U. S. A., and his representatives. See Descriptive Reports for Sheets "L", "BB" and "CC."

T-4687 T-4754 T-4740

METHODS:

Standard methods were employed as recommended by the U. S. Coast & Geodetic Survey in Special Publication No. 144.

CONTROL:

Basic control for the plane table survey was furnished by ten triangulation stations.

CLOSING ERRORS:

The traverse from Triangulation Station Dillingham to Triangulation Station Land had a closing error in distance of seven meters. This was adjusted proportionally throughout the traverse. For the remainder of the sheet, the control was sufficient to make long traverses unnecessary.

JUNCTIONS:

At the east end of the sheet a good junction was made with previous work as shown on Sheet #4445. On the west end of the sheet the traverse was plotted on Sheet "EE" and extended to Triangulation Station Y.M.C.A. which had zero closure. T-4752

LAND MARKS:

Dense groves of iron wood trees form the most prominent land marks in this area. Outlines of these groves are indicated from Signal Cor eastward, south of Signals Red, Hid and Tri to the railroad, south of Signals In and Mac to the railroad. A single row of these trees lies between the highway and sugar cane fields in this vicinity. Another row of trees, which was trimmed

down considerably in 1932, line the north side of the railroad from near Signal Pot to Signal Hut. The railroad trestles are not as prominent offshore as on the next sheet (EE").

BREAKERS:

The outer limits and general shape of shoal areas were indicated by a dash line. These are the areas where breakers may be expected in normal weather. In heavy northeasterly or northerly winds the breakers are continuous along this shore and extend much farther offshore.

LOCAL ATTRACTION:

Authorities here claim this area is subject to considerable local deflection of the compass needle. This was investigated to a certain extent by drawing in the direction of the declinoire at four places on the sheet. At Triangulation Station Mokuleia U.S.E. there is apparently some local attraction.

Respectfully submitted,

Hubert A. Paton

Hubert A. Paton,
Lieutenant,
Chief of Party.

PLANE TABLE POSITIONS

SHEET D.D.

Object & Description	Lat.	D.M.	Long.	D.P.	Height
APE., N.E. cor. dark grey house	21°34'	1789	158°09'	1212	15'
Fen, west end board fence	21°34'	1807	158°09'	1316	6'
Gab, N.E. gable Kaiahulu Club House	21°34'	1837	158°09'	1434	15'
Cor, N.W. cor. small house	21°34'	1723	158°10'	306	12'
Tat, center, Mokuleia R.R. Sta.	21°34'	1717	158°10'	1084	10'
Hid, " dark green roof	21°35'	110	158°10'	1146	15'
Pra, " Buddhist Shrine	21°35'	1	158°10'	1663	10'
✓Army, Army Survey Mark (conc. mon.)	21°35'	249	158°11'	1079	
Soc, wind sock, emergency landing field	21°35'	77	158°11'	1157	25'
Dol, water tank, Dollar Radio Sta. (Rec.)	21°34'	1521	158°11'	1255	35'
Hut, center, small shack	21°35'	167	158°11'	1673	10'
Wat, green water tank	21°34'	1651	158°12'	585	10'
Ike, R.R. crossing sign	21°35'	102	158°12'	569	10'
Mas, N.E. cor, motor room, Q.M. sand pit	21°35'	140	158°12'	971	20'
Ter, white water tank	21°34'	1686	158°12'	1052	15'
✓Jac, boundary mon. Mil. Reservation	21°35'	152	158°12'	579	
Had, end of prominent shoulder of cliff	21°34'	1378	158°12'	1502	500'

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Honolulu, Fort Shafter, T. H.

February 18th, 1933

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

Hubert A. Paton

Chief of Party.

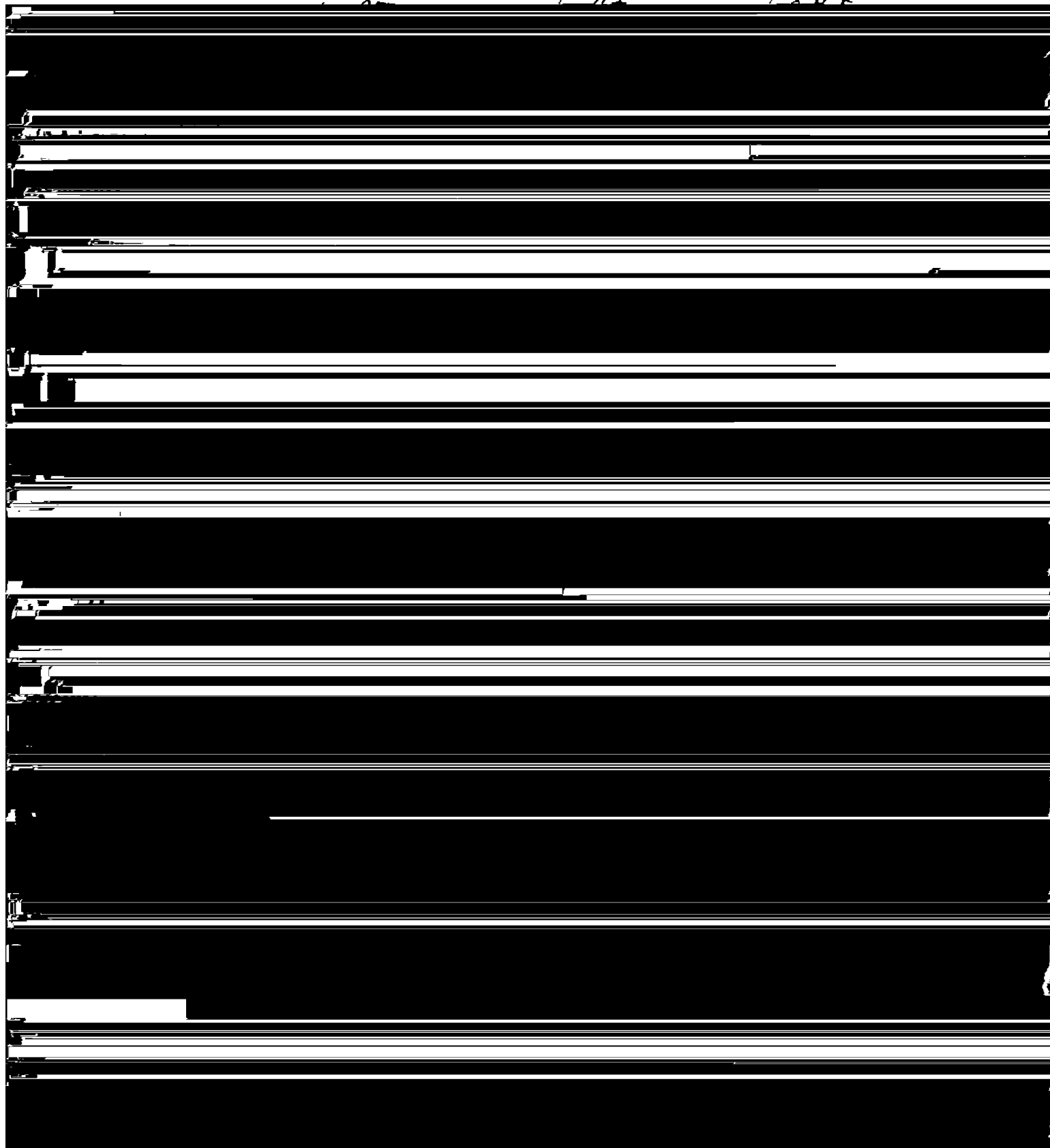
[illegible]

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaves and like objects are not sufficiently permanent to chart.

REVIEW OF TOPOGRAPHIC SURVEY No. 4753

Title (Par. 56) *Kawaihapae to Mokuiaia, N.W. coast of Oahu, Hawaiian Islands*



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 DMs and DPs, 68.) *and cards were checked. see* Planetable stations are listed in Desc. Report.
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.) *Effect of local attraction is noted in Desc. Rep.*
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.) ✓
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, Dec. 20, 1933.*

Examined and approved:

L. O. Lobert.
Chief, Section of Field Records

L. O. Lobert.
Chief, Division of Charts

B. Borden
Chief, Section of Field Work

G. H. de
Chief, Division of Hyd. and Top.

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OCT 17 1933

REG. NO. 4753

TOPOGRAPHIC TITLE SHEET

Acc. No. _____

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. DD _____

REGISTER NO. 4753

State Hawaiian Islands

General locality Northwest Coast of Oahu

Locality Kawaihapai to Mokuleia Island

Scale 1:5000 Date of survey September, 1932

Vessel Inshore Hydrographic Survey of Oahu

Chief of Party Hubert A. Paton, Lieut.

Surveyed by do

Inked by do

Heights in feet above H. W. to ground ~~XXXX~~ 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