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GUIDELINES AS DESCRIBED IN SECTION
3.3(a), EXECUTIVE ORDER 12356.

4752

U. S. COAST & GEODETIC SURVEY
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Form 504
Ed. June, 1928

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

State: Hawaiian Is.

DESCRIPTIVE REPORT

Topographic } Sheet No. EE 4752
Hydrographic }

LOCALITY

Northwest Coast of Oahu
Kaunapali to Kaena Point

1932

CHIEF OF PARTY

Hubert A. Paton

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3.3(a), EXECUTIVE ORDER 12356.

DESCRIPTIVE REPORT

to accompany

SHEET E.E.

NORTHWEST COAST OF OAHU

KAWAIAPAI TO KAENA POINT

INSTRUCTIONS:

The survey of this area was done in cooperation with the U. S. Army under instructions from the Director, Coast & Geodetic Survey, dated July 14, 1931, and also under verbal instructions from the representatives of the Chief of Engineers, U. S. A. Its purpose was restricted to a rapid development of possible landing sites for troops. On this account, the topographic party located the hydrographic signals and the shore line only. Some additional information was obtained without delaying the progress of the work.

CONTROL:

Eleven triangulation stations were located within the limits of the sheet. They provided sufficient control so that no long traverses were necessary and all closing errors were nil.

JUNCTIONS:

On the east, this sheet joins the field sheet "DD". The shore line was determined by transfer from that sheet and the traverse extended to Triangulation Station Y.M.C.A. T-4753

On the west, a good junction with Sheet 4779 was made. Three old signals were recovered and their location checked.

METHODS:

^{T-4753} For a general description of methods used, see Descriptive Reports of Sheets "L", "CC" and "DD". Areas inclosed by a dashed line and described as "breakers" indicate the general shape and limits of breakers in normal weather, that is, when a light northeasterly or easterly breeze is blowing. In unfavorable weather, breakers are continuous along this coast and extend farther offshore than shown.

LANDMARKS:

The Geological Survey maps (scale 1:20,000) were found to be quite accurate and the contours should be shown on our charts. The unimproved and incomplete road constructed up the face of the cliff in Longitude 158°15'.5 is a prominent land mark. A subgrade for an inclined railway was constructed

up the first draw east of this road, but is not shown by the Geological survey. An approximate location of this is shown on the topographic sheet.

CORRECTION TO CHARTS:

On Chart #4110 (issued in 1919), an arc of visibility for Kaena Point Light is shown. These rays should be removed as the light is not obscured.

Respectfully submitted,

Hubert A. Paton

Hubert A. Paton,
Lieutenant,
Chief of Party.

PLANE TABLE POSITIONS

SHEET E. E.

Object & Description	Lat.	D.M.	Long.	D.P.	Height
LEF, Radio tower - steel	21°34' ✓	1477 ✓	158°13' ✓	904 ✓	100 ft. ✓
Rit, Radio tower - steel	21°34' ✓	1544 ✓	158°13' ✓	1106 ✓	100 " ✓
water tank, wooden	21°34' ✓	1466 ✓	158°13' ✓	1022 ✓	25 " ✓
CHI, rock chimney, largest bldg., Camp Erdman	21°34' ✓	1664 ✓	158°13' ✓	1047 ✓	
BOY, flag pole, ref. mark in base	21°34' ✓	1737 ✓	158°13' ✓	1030 ✓	
Railroad trestle (center)	21°34' ✓	1673 ✓	158°13' ✓	1655 ✓	
GAB, north gable, red house	21°34' ✓	1631 ✓	158°14' ✓	107 ✓	20 " ✓
WART, prominent rock on shoulder of cliff	21°34' ✓	1283 ✓	158°14' ✓	815 ✓	850 " (approx.)
BOX, small rock shelter for machine gun	21°34' ✓	1747 ✓	158°15' ✓	34 ✓	
Railroad trestle (center)	21°34' ✓	1720 ✓	158°14' ✓	160 ✓	
Railroad trestle "	21°34' ✓	1720 ✓	158°14' ✓	805 ✓	
Railroad trestle "	21°34' ✓	1690 ✓	158°14' ✓	1298 ✓	
Railroad trestle "	21°34' ✓	1633 ✓	158°14' ✓	1710 ✓	
Railroad trestle "	21°34' ✓	1592 ✓	158°15' ✓	747 ✓	
Railroad trestle "	21°34' ✓	1705 ✓	158°15' ✓	254 ✓	
Railroad trestle "	21°34' ✓	1498 ✓	158°15' ✓	1426 ✓	
SIG, railroad crossing sign	21°34' ✓	1368 ✓	158°16' ✓	557 ✓	
Cave, small, on side of rock	21°34' ✓	1328 ✓	158°16' ✓	924 ✓	
TIP, north end of large rock	21°34' ✓	1344 ✓	158°16' ✓	967 ✓	
Railroad trestle (center)	21°34' ✓	1276 ✓	158°16' ✓	1018 ✓	
U.S. Navy Radio Compass Station, red bldg.	21°34' ✓	1194 ✓	158°16' ✓	1594 ✓	20 ft.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

*Duplicate*Honolulu, Fort Shafter, T. H.Feb. 20th

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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.

DESCRIPTION	POSITION					DATUM	METHOD OF DETERMINATION	CHARTS AFFECTED	
	LATITUDE		LONGITUDE						
	°	'	D. M. METERS	°	'				D. P. METERS
Radio Tower (100')	21	34	1477	158	13	934	1930 Stand	Topo	4110
Radio Tower (100')	21	34	1544	158	13	1106	"	"	"
Largest Bldg. Camp Erdman	21	34	1664	158	15	1047	"	"	"
Rod House	21	34	1631	158	14	107	"	"	"
Promient Rock (950' elev.)	21	34	1285	158	14	815	"	"	"
U. S. Navy Radio									
Compass Station, red bldg.	21	34	1194	158	16	1594	"	"	"
Black Rock	21	34	1657	158	14	1369	"	Sortant Cuts	"
Railroad Trestles	21	34	1673	158	15	1655	"	Topo	"
" "	21	34	1720	158	14	160	"	"	"
" "	21	34	1720	158	14	805	"	"	"
" "	21	34	1690	158	14	1298	"	"	"
" "	21	34	1635	158	14	1710	"	"	"
" "	21	34	1592	158	15	747	"	"	"
" "	21	34	1705	158	15	254	"	"	"
" "	21	34	1498	158	15	1426	"	"	"
" "	21	34	1276	158	16	1018	"	"	"

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. 4752

Title (Par. 56) *Northwest Coast of Oahu, Haw. Is., Kaena Pt. - Kaiwhaitapai*Chief of Party *H.A. Paton* Surveyed by *H.A.P.* Inked by *H.A.P.**Party Inshore Hyd. Surv.*
~~Ship~~ *of Oahu* Instructions dated *7/14/31* Surveyed in *1932*

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.) —
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) —
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.) —
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.) —
All bridges were small trestles.
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.) *Cards checked by Rfb* ✓
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.) *Decl. measure 11°, 11½°, 11½°, 10°, 9°50' all Ely. All taken at Asta's. - Local surveyors claim decl. varies in this area.*
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 *H. A. Paton*

Examined and approved:

L. O. Solbert
Chief, Section of Field Records

L. O. Solbert
Chief, Division of Charts

J. S. Borden
Chief, Section of Field Work

J. S. Borden
Chief, Division of Hyd. and Top.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4752

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. EE

REGISTER NO. **4752**

U. S. COAST & GEODETIC SURVEY
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OCT 17 1933

Acc. No. _____

State Hawaiian Islands

General locality Northwest Coast of Oahu

Locality Kaena Pt. to Kawaihapai

Scale 1:5000 Date of survey September, 1932

Vessel Inshore Hydrographic Survey of Oahu

Chief of Party Hubert A. Paton, Lieut.

Surveyed by H. A. P.

Inked by H. A. P.

Heights in feet above H. W. to ground ~~to tops of trees~~

Contour, Approximate contour, Form line interval _____ feet

Instructions dated July 14th, 1931, 19____

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