

11555

Diag. Cht. No. 8863-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-34 Office No. T-11555

LOCALITY

State Alaska

General locality Aleutian Islands

Locality Kanaga Bay

19~~4~~54

CHIEF OF PARTY

S.B.Grenell, Chief of Field Party
L.W.Swanson, Div. of Photo. Wash., D.C.

LIBRARY & ARCHIVES

DATE May 12, 1958

11555

DATA RECORD

T - 11555

Project No. (II): **Ph-34** Quadrangle Name (IV): **Kanaga Bay**

Field Office (II): **Ship Explorer** Chief of Party: **S. B. Grenell**

Photogrammetric Office (III): **Washington, D. C.** Officer-in-Charge: **L. W. Swanson**

Instructions dated (II) (III): **21 October 1954** Copy filed in Division of
Photogrammetry (IV)
Office Files

Method of Compilation (III): **Kelsh Plotter "A"**

Manuscript Scale (III): **1:5000** Stereoscopic Plotting Instrument Scale (III): **1:2,700**

Scale Factor (III):

Date received in Washington Office (IV) **JUL 1 21955** Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

JUL 22 1955
12-16-57

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

1927 N.A. Datum

Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

M H W

Reference Station (III): **Perch, 1954**

Lat.: **51-34-47.787**

Long.: **177-12-20.275**

Adjusted
Unadjusted **Field Comp.**

Plane Coordinates (IV):

State:

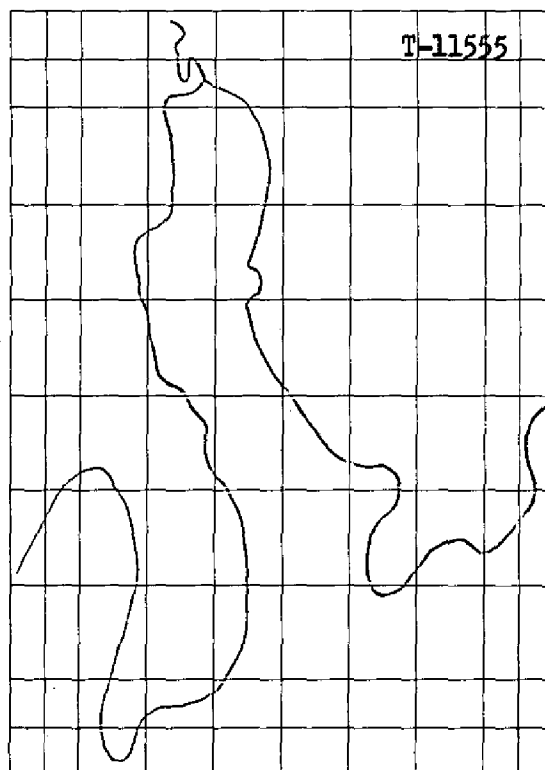
Zone:

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.



detailed
 Areas ~~contoured~~ by various personnel
 (Show name within area)
 (II) (III)

Shoreline detailed by J. D. Perrow, Jr.

DATA RECORD
T-11555

Field Inspection by (II): **Shoreline Inspection by C. W. Clark
and H. A. Garcia** Date: **1953 Season
1954 Season**

Planetable contouring by (II): **None** Date:

Completion Surveys by (II): **None** Date:

Mean High Water Location (III) (State date and method of location):
Field Inspection during 1954 Season

Projection and Grids ruled by (IV): **A. Riley** Date: **Oct. 1954**

Projection and Grids checked by (IV): **A. Riley
H. Wolfe** Date: **Oct. 1954**

Control plotted by (III): **C. E. Cook** Date: **Dec. 1954**

Control checked by (III): **J. D. Perrow, Jr.** Date: **Dec. 1954**

Radial Plot or Stereoscopic
Control extension by (III): **None** Date:

Planimetry
Stereoscopic Instrument compilation (III): **J. D. Perrow, Jr.** Date: **Dec. 1954**
~~Control~~

Manuscript delineated by (III): **J. B. McDonald** Date: **Dec. 1954**

Photogrammetric Office Review by (III): **L. J. Reed** Date: **Dec. 1954**

Elevations on Manuscript
checked by (II) (III): **None** Date:

Camera (kind or source) (III): **W Camera**

Number	Date	Time	Scale	Stage of Tide
2859 thru 2862	9-6-54	16:08	1:15,000	3.4 ft.

Tide (III)

Reference Station: **Sweeper Cove, Adak**
Subordinate Station:
Subordinate Station: **Kanaga Bay**

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
		3.7
1.1		3.9

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

M. Day

Date:

7-17-56

Drafting verified for reproduction by (IV):

Wm. O. Hallum

Date:

9-13-56

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **2**

Shoreline (More than 200 meters to opposite shore) (III): **7**

Shoreline (Less than 200 meters to opposite shore) (III): **None**

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

See field report in descriptive report T-9925 and T-9926

Recovered:

Identified:

Number of BMs searched for (II):

Recovered:

Identified:

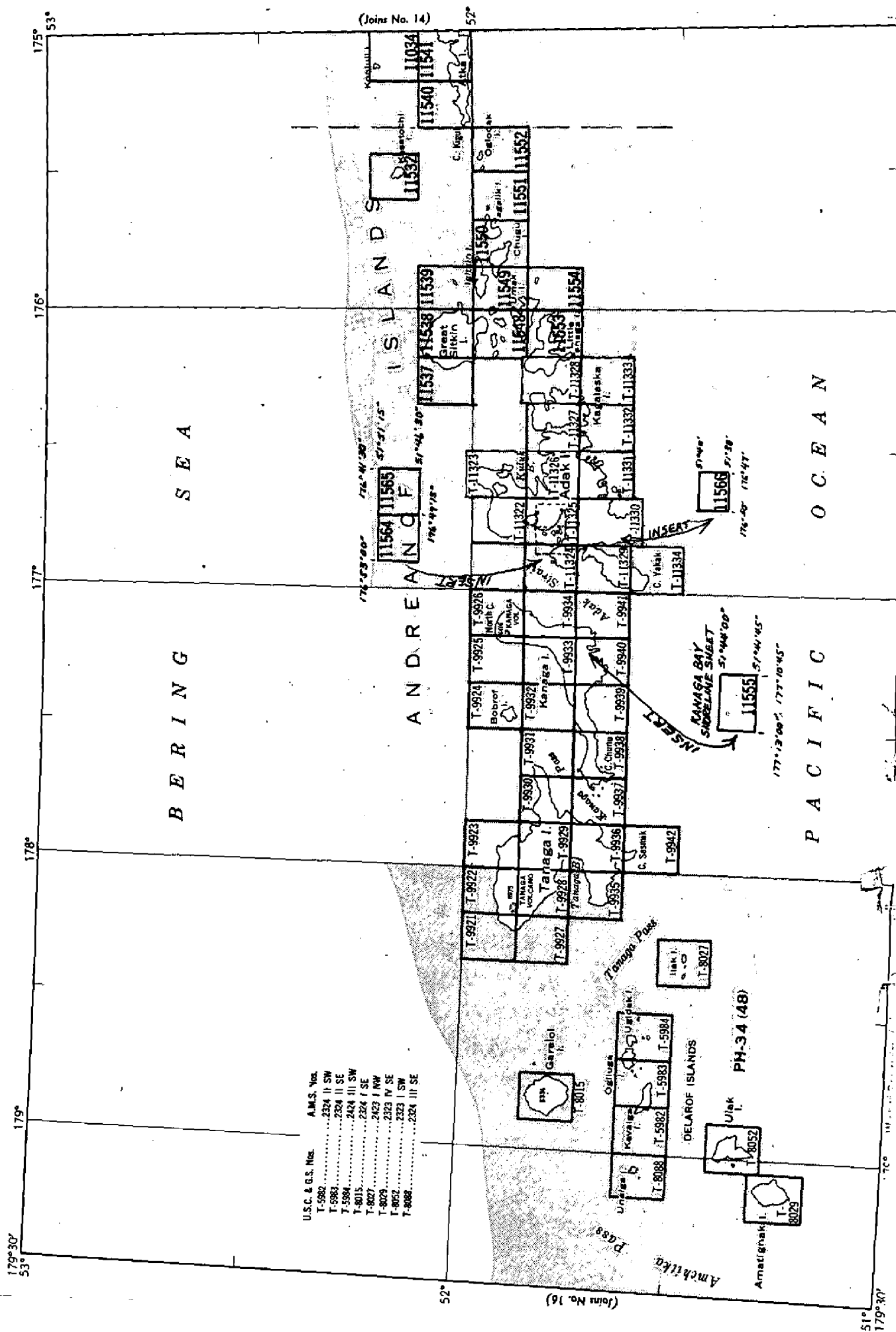
Number of Recoverable Photo Stations established (III): **None**

Number of Temporary Photo Hydro Stations established (III): **None**

Remarks:

TOPOGRAPHIC MAPPING PROJECT PH-34

Aleutian Islands **ALASKA** **Part B**



MAP T.....11555

[illegible]

1 FT. = 3048006 METER

COMPUTED BY:

DATE:

CHECKED BY:

DATE _____

M.2388.12

FIELD INSPECTION REPORT
Included in Descriptive Report
for T-9925 and T-9926

COMPILATION REPORT
T-11555

31. DELINEATION

Kelsh Plotter B was used in the delineation of the map manuscript.

32. CONTROL

Identification of control was satisfactory. Because of the location of control, a central model was set first in order to leave pass points in addition to existing control to aid in setting the outer models. Field computed positions for all topographic and hydrographic stations, as well as triangulation stations, were used as control. See Paragraph 38 for stations not held.

All models were leveled on the MHW line.

33. SUPPLEMENTAL DATA

Boat Sheet EX-2454-6, with Shoreline from a 1932 Navy Survey, was used as an aid to locate offshore rocks on the photographs.

34. CONTOURS AND DRAINAGE

Not applicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline has been shown as approximate MHW line in an area near Indian Point because of overhanging cliffs.

36. OFFSHORE DETAILS

See Paragraph 33.

37. LANDMARKS AND AIDS TO NAVIGATION

A Form 567 has been submitted recommending five landmarks in the area covered by the map manuscript. A copy of this form has been included in this report.

38. CONTROL FOR FUTURE SURVEYS

Form 524 has been submitted for recoverable topographic station, COG, 1954. (T-9940)

Kelsh Plotter positions for two hydrographic stations did not agree with the field computed positions. Photogrammetric positions are:

Dub	51°-42'-1590 M	177°-11'-1002 M
Nil	51°-42'-1174 M	177°-12'-96 M

See Field Inspection Report, Page 10.

39. JUNCTIONS

The map manuscript was photographically reduced and detail transferred to T-9940, scale 1:20,000.

40. HORIZONTAL AND VERTICAL ACCURACY

Not applicable.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 9121 1:7500 1947, corr. 1952

48. GEOGRAPHIC NAMES

See appended sheet.

Approved by:

Submitted by:

Charles Theurer
C. Theurer

Charles E. Cook
C. E. Cook

NOTES TO THE HYDROGRAPHER

The following hydrographic stations are located on the map manuscript:

<u>Station</u>	<u>Description</u>	<u>Photo No.</u>
Age .	White tripod	2860
Bon .	White tripod	2859
Dub .	W.W. outer face of 15' pinnacle	2860
Fez .	W.W. on SW face of higher part of rock	2861
Gus .	W.W.	2861
Jim .	W.W.	2862
Kip .	W.W.	2862
Nil .	W.W. on large and northerly of several boulders	2861
Mob .	W.W. on SE point of bluff	2862
Pix .	W.W. on low rock at point of grass	2861
Ram .	W.W. on point of cliff	2860
Tap .	White tripod	2860

Recoverable topographic stations are listed on Form 524 and Form 567.

GEOGRAPHIC NAMES

Survey No.

T11555

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
Kanaga Bay									1
Angora Pt									2
Memorial Pt									3
Totem Rock									4
Kayak Cove									5
Indian Pt									6
Wreck Reef									7
Range Pt									8
Swallow Pt									9
									10
									11
									12
									13
									14
									15
									16
									17
									18
									19
									20
									21
									22
									23
									24
									25
									26
									27

Names approved
8-18-55
A. J. W.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

STRIKE OUT ONE

Non-existent

Seattle, Washington

29 October, 1954

I recommend that the following objects which have ~~been~~ ^{been} inspected from seaward to determine their value as landmarks be ~~deleted from~~ ^(deleted from) the charts indicated.

The positions given have been checked after listing by J. D. Walker

S. B. Grenell *Chief of Party.*

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE #		LONGITUDE #		DATUM							
				° ' "	D.M. METERS	° ' "	D.P. METERS								
				° ' "	D.P. METERS	° ' "	D.P. METERS								
Bn W	White day beacon shown on rocky islet SW side Argonne Channel		--	51-48.7	--	176-49.5	--	N.A.	Unknown	Unknown	X			Bay of Island 9120	
Bn	Day beacon shown on W. side Kanaga Bay		--	51-42.6	--	177-12.2	--	"	"	"	X			Kanaga Bay 1921	
Bn	Day beacon, rear object of entering REAR range, Kanaga Bay	1943		51-42.5	--	177-12.1	--	"	Triang.	1943	X			9121	
Sign Board	Front object of entering range, Kanaga Bay	FRONT 1943		51-42.4	--	177-11.9	--	"	"	"	X			9121	
Bn	Day beacon on point at east side of entrance to Kanaga Bay		--	51-42.4	--	177-11.4	--	"	Unknown	Unknown	X			9121	
WHITE CROSS ON ROCK	Front object for second range entering Kanaga Bay		--	51-42.8	--	177-11.8	--	"	"	"	X			9121	
Bn	Day beacon, rear object for second range entering Kanaga Bay		--	51-42.9	--	177-11.9	--	"	"	"	X			9121	
WIND GUAGE	Wind guage at former weather station, Kanaga Bay		--	51-42.9	--	177-11.7	--	"	"	"	X			9121	
RADIO TOWER	S'ly of two radio towers at former weather station, Kanaga Bay		--	51-43.0	--	177-11.8	--	"	"	"	X			9121	
R.	Radio mast at site of former weather station, Kanaga Bay		--	51-43.1	--	177-11.8	--	"	"	"	X			9121	
LOTRAN TOWER	Charted Ioran tower on NW side Cape Adagdiak, Adak Island		--	51-59.4	--	176-36.7	--	"	"	"	X			9193	

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

~~TO BE DELETED~~

Seattle, Washington

29 October

1954

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~(charts)~~ the charts indicated.

The positions given have been checked after listing by

David M. Whipp

S. B. Grenell

Chief of Party.

STATE		Alaska, Aleutian Islands - Andreanof Islands		POSITION										METHOD OF LOCATION AND SURVEY No.		DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE*		LONGITUDE*		DATUM	METHOD OF LOCATION AND SURVEY No.		DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED						
			° ' "	D. M. METERS	° ' "	D. P. METERS														
HIVE RK. (*)	Highest point of grass-topped, bee-hive shaped pinnacle rk., 80 ft. high	HIVE	51-43	1366.7	177-33	51.6	NA 1927	Triang. (EX-2154)	1943	X			9145							
WRECK	Wreck of "Swallow" on HML, on W. side entrance Kanaga Bay (25 ft. high). Consists of bridge and forward half of ship.	Lug	51-42	428.6	177-11	1004.4	"	Planetable (EX-C-54)	1954	X	X		9121 & 9193							
SIGN-BOARD	"No trespass" signboard on grass-topped rock islet	Ear	51-42	937.4	177-11	710.7	"	Theod. cuts T-9940	1954	X			9121							
TANK	Abandoned wooden water tank on top of bluff (visible only W. thru N.E.)	Tank	51-43	50.4	177-11	993.0	"	"	"	X			9121							
RADIO (*)	Radio mast (abandoned) on hill N. of former weather station.	MAST	51-43	208.8	177-11	827.8	"	Triangulation (EX-C-54)	1943	X			9121							
	(158 ft. above MHW)							7-4440 7-11133												
W. GABLE CABIN WINDOW TOWER (SILO) TOWER (SWAY or 3)	Wily gable of unoccupied house or cabin on NW shore Kanaga Bay	Say	51-43	794.3	177-12	287.5	"	Theod. cuts T-9940	1954	X			9121							
	Window, center of seaward side of cabin	Win	51-43	1039.4	177-03	552.8	"	Theod. cuts T-9934	1954	X			9193							
	Abandoned tower resembling silo	SILO	51-36	619.4	176-56	843.8	"	Triangulation T-11334	1954	X			9193							
	Abandoned radar tower	RADAR TOWER	51-36	320.5	176-56	924.4	"	"	1954	X			9193							

PHOTOGRAMMETRIC OFFICE REVIEW

T-

1. Projection and grids ✓ 2. Title ✓ 3. Manuscript numbers ✓ 4. Manuscript size ✓

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ✓ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ✓ 7. Photo hydro stations ✓ 8. Bench marks —
9. Plotting of sextant fixes — 10. Photogrammetric plot report — 11. Detail points —

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line ✓ 14. Rocks, shoals, etc. ✓ 15. Bridges — 16. Aids to navigation — 17. Landmarks ✓ 18. Other alongshore physical features ✓ 19. Other along-shore cultural features ✓

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover — 22. Planetable contours — 23. Stereoscopic instrument contours — 24. Contours in general — 25. Spot elevations — 26. Other physical features —

CULTURAL FEATURES

27. Roads — 28. Buildings ✓ 29. Railroads — 30. Other cultural features —

BOUNDARIES

31. Boundary lines — 32. Public land lines —

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay — 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Forms ✓
40. L.T. Charles H. Hume

Reviewer

Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler

Supervisor

43. Remarks:

M-2623-12

Review Report T-11555
Shoreline Map
17 August 1955

61. General:

Several rocks visible on the photographs were added along the west shore of the bay, and a sunken rock at Swallow Point from T-9940.

No field inspection photographs were available for the area between the wrecks on the west side of the bay entrance westward to the margin of the map manuscript, so that no check could be made with respect to elevations of rocks and islets.

62. Comparison with Registered Surveys:

There are no prior topographic surveys of the area by this Bureau.

63. Comparison with Maps of Other Agencies:

USE, Kanaga Island (Sheet 5) 1:25,000 1943

This map has only a generalized shoreline and no foreshore features.

The southern radio tower near the wharf on the east shore no longer exists.

64. Comparison with Contemporary Hydrographic Surveys:

H-8144 (EX. 2454b) 1:20,000 1954 Kanaga Bay

Only a small scale film negative of the boat sheet was available. No hydrographic work was done on foreshore, so that the photogrammetric shoreline and foreshore features of T-11555 are to be used for charting.

65. Comparison with Nautical Charts:

9121 1:7,500 April 1947, corr. August 1952

The shoreline on T-11555 supersedes that on the chart, but the foreshore did not receive a detailed inspection.

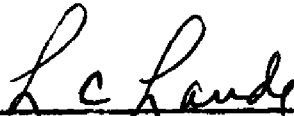
66. Accuracy:

This shoreline survey has utilized all field inspection data and meets the National Standards of Accuracy:

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED:



Chief, Review Section
Photogrammetry Division



Chief, Nautical Chart Branch
Charts Division



Chief, Photogrammetry Division



Chief, Coastal Surveys Division