90349035

Diag. Cht. No.4116

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. Office No. T-9034

T-9035

LOCALITY

State HAWAIIAN ISLANDS

General locality OAHU

LocalityAHUA POINT-KEEHI LAGOON &HONOLULU HARBOR

194 8...

CHIEF OF PARTY

L. C. Lande

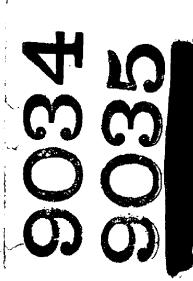
L. C. Wilder

LIBRARY & ARCHIVES

DATE Dec _ 21- 1953

B-1870-1 (I

DECLASSIFIED
AUTHORITY Memo, Photogrammetry, 4-3-64
DATE 4-7-64 RY BLB



DATA RECORD

T-9034

Quadrangle (II):

Project No. (II):

Field Office: Honolulu, Oahu I., Chief of Party: Lt. Comdr. L. C. Wilder Hawaii.

Compilation Office:

Chief of Party: L. C. Lande

Graphic Compilation Section

Division of Photogrammetry, Washington, D. C. Copy filed in Descriptive Instructions dated (II III):

Report No. T- (VI)

Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed: 4 Feb. 1952 Applied to chart No. 4109 Date: 8/24/49

Redrafting Completed:

Registered: 2 o April/1953 Published:

Compilation Scale: 1:5,000 Published Scale:

Scale Factor (III): 1.000

Geographic Datum (III): Old Hawaiian Datum Plane (III):

Reference Station (III): Station G

Lat.: 21° 18° 1,601.0 m. Long.: 157° 55° 1,436.3 m. Adjusted Hundhusted

State Plane Coordinates (VI):

X = Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number Date · 5-16 to 5-28 1946 xx-10 to xx-20 6-4 to 6-25 2-28 to 2-40 (includes photos for T-9034 and

T-9035)

Time Scale 1:5,000

Stage of Tide

Accession No. 1779

T- 9034 Run 6 Nos 4-13 2 30-40 XX 10-13

7-9035 Run 2 Nos. 28-30 5

Tide from (III): Tide Tables

Mean Range: 1.2'

Spring Range: 1.9'

Camera: (Kind or source) Navy KKAMEKKKKKKK (K-18)

Field Inspection by: None

date:

Field Edit by: Lt. Comdr. L.C. Wilder for C.S. 402

date: Dec. 31, 1947

Date of Mean High-Water Line Location (III):

Projection and Grids ruled by (III) T. L. J. date: March 1948

" checked by: T.L.J.

Control plotted by: B. J. Colner, L. M. Gazik

Control checked by: L. Martin Gazik

Radial Plot by: L. Martin Gazik

Detailed by: L. Martin Gazik

Reviewed in compilation office by:

Elevations on Field Edit Sheet checked by:

date: March 1948

date: (3-48 3-17-47

date: (3-20-47

date: 4-48

date: 5-7-48

date:

date:

STATISTICS (III)

Land Area (Sq. Statute Miles):

Shoreline (More than 200 meters to opposite shore):

Shoreline (Less than 200 meters to opposite shore):

Number of Recoverable Topographic Stations established:

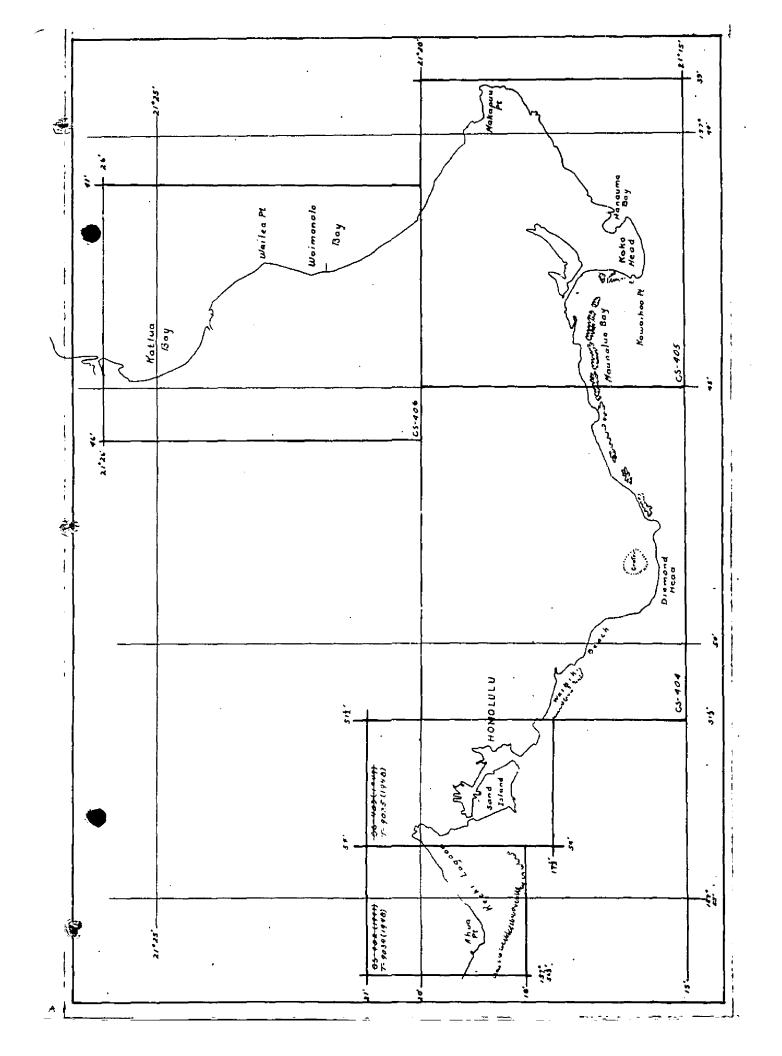
Number of Temporary Hydrographic Stations located by radial plot:

Leveling (to control contours) - miles:

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

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

Remarks:



SUMMARY TO ACCOMPANY T-9034 and T-9035

These two shoreline surveys were not assigned a Riproject number, but are considered part of a "miscellaneous" group. No Completion Report will be written, therefore this summary serves as a record of procedures and data. The two map manuscripts were made in 1948 to replace correction sheets CS-402 and CS-403 made in 1947. Three other correction sheets (CS-404, CS-405, and CS-406), also made in 1947, were of charting accuracy and were applied to charts.

T-9034 extends from Latitude 21°18' to 21', Longitude 157°54' to $56\frac{1}{2}$ '. It includes Ahua Point and Keehi Lagoon. T-9035 extends from Latitude 21°17 $\frac{1}{2}$ ' to 21'; Longitude 157°51 $\frac{1}{2}$ ' to 54'. This is the Honolulu-Sand Island area.

No field inspection was made prior to compilation of CS-402 to CS-406, inclusive. Ozalid prints of these five map manuscripts, together with the photographs used, were forwarded to Lt. Comdr. L. C. Wilder at the Honolulu Field Office on October 15, 1947. These prints, with field edit notes added, were returned to the Washington Office where the indicated additions and corrections were applied to the map manuscripts.

In the case of CS-402 and CS-403 the field edit disclosed inaccuracies which made the sheets unfit for charting purposes. Consequently positions for eight new control stations and one USE station were furnished in order that a new, better-controlled plot could be laid, using the photographs of the earlier plot. The new map manuscripts were numbered T-9034 and T-9035 and the map manuscripts for CS-402 and CS-403 were discarded.

Data pertaining to T-9034 and T-9035:

- 1. Chart Letters: (filed in Nautical Charts Division)
 - (a) No. 257 (1944)
 Correspondence re: control
 Geographic positions USE control.
 - (b) No. 764 (1947), includes
 #Field Edit Report for CS-402 & CS-403
 #Geographic positions for new control
 - (c) No. 65 (1948), includes Field Edit Report for CS-404, CS-405, CS-406.
- 2. Field Edit Instructions, CS-402 to CS-406, inclusive Ahua Point to Kapoho Point. 1 October 1947

"Copies are attached to this Descriptive Report.

FIELD EDIT REPORT Manuscripts CS 402 - T-9034 CS 403 - T-9035 Honolulu, T.H.

Nov. 4, 1947

Methods - Adequacy for Charting - Changes in the Manuscripts - Additional Control - Accuracy

Method of Field Edit: This office has on file mosaics of the areas covered by these two sheets, which were made in this office from a set of the same photographs which were used for the office compilation. The use of these mosaics coupled with the fact that I am perticularly familiar with most of the area of these two sheets, required very little field inspection. Only those areas or objects regarding which there was some uncertainty were inspected, in the field. The mosaics were a great help in checking the compilations.

Adequacy for Chart Revision: I believe that these two compilations are satisfactory for chart revision. I have not attempted to check the accuracy. (This is the subject of a following paragraph). As regards the coverage and completeness for chart revision, the manuscripts are good.

Changes in the Manuscripts: I have indicated, on the manuscripts returned, deletions by a zig-zag line (usually in blue) and additions by a rough outline of the object or a note explaining the omission (generally in red). I have deleted a number of temporary buildings which have been removed. The Army and Navy are removing some of their war installations. I have also deleted some roads which were little more than trails and consequently unimportant. Where a street should have been drawn through a city block, I have drawn a line. If a street was drawn through erroneously, I have deleted.

Additional Control: Additional control, requested in your instructions, is appended to this report.

Accuracy of the Manuscripts: The additional control which I obtained for sheet CS 402 did not agree well with manuscript positions. I take this to mean that the control used was scant and inadequate. This is an indication of the inaccuracy of the manuscript without adequate control. If your office had requested control at the time of the compilation, this office could have obtained same. I believe that I indicated in one of my letters my ability to obtain the control needed upon request by your office.

I have not attempted to check the accuracy of the compilations and do not see how this is possible without considerable field work on CS 402. I would judge that the plotting of additional triangulation on CS 403 (triangulation which was not used in the radial plot) would serve as a satisfactory check. Such stations as Kalihi Fire Sta.,

Kapalama Incinerator Chy and Kewalo Incinerator Chy are available from Special Publication 156 or the Nautical Chart Section.

Geographic Names: The following names have been checked as correct: Honolulu Airport, Keehi-Lagoon, Kapalama Basin, Sand Island, Kewalo Basin, and Kalihi Entrance. I believe that these are the only names on Chart 4109, regarding which there might be some question.

Landmarks and Prominent or Important Buildings: "Landmarks for Charts" is attached.

It is recommended that the following items in addition to "Landmarks for Charts" be charted and named on Chart 4109. (These are named on CS 403). Quarantine Station, Immigration Station, Seamen's Institute, Aala Park, Irwin Park, O. R. & I. Depot, Iolani Palace and Library of Hawaii.

Submitted by,

November 4, 1947

L. C. Wilder, Lieut. Comdr. Supervisor, Pacific District

4 November 1947 Honolulu, T.H.

Additional Control located for control of radial plot.

In most cases the highest part of the object was located.

The part that was located, in all cases, was pricked on the photographs. (Not a position vertically below the part located). These objects were cut in by D&R (Berger 7") from three stations, which gave a check on one distance.

			Photo.No.	Remarks
Flag Staff (top of)	21-20-02.70	157-55-26.96	6 - 7	No check
Water Tank (top of) Sand Island	21-18-40.16	157-53-02.16	6 - 18	
Steel Tower (an upright in one corner)	21-18-57.21	157-55-27.66	2 - 35	Top of
Radar (Appears like water tank)	21-19-20-81	157 - 56 - 12 . 92	2 - '38	
Hangar (North gable)	21-19-49-91	157-55-20.53	6 - 8	
Radar (most westerly and highest)	21-20-45.83	157-54-50.60	xx-11	Bottom of aerial
Beacon, Honolulu Airport	21-19-33.08	157-54-49-33	6 10	gelial
Building, Center of, at Pistol Range	21-19-45.38	157-54-18.35	6 - 12	
Igloo USE Use for check on item :		157-56-08-63	2 - 39	Not sure of pricked point

DESCRIPTIVE REPORT: T-9034

PROJECT:

LOCATION: AHUA POINT - KEEHI LAGOON, OAHU, HAWAII.

SCALE: 1:5,000

T-9034 was compiled principally to furnish corrections for Nautical Charts No. 4110 at 1:80,000, No. 4132 and No. 4133 at 1:20,000 scales. T-9034 & extends from AHUA POINT in the vicinity of HONOLULU to WAILEA POINT on the eastern coast of OAHU.

Compilation was facilitated by field records and notes furnished by Lt. Comdr. Wilder in Chart Letter 764.

This T-sheet is filed in the Division of Photogrammetry and L.764 (1947) is filed in Nautical Charts Branch.

COMPILATION REPORT FOR T-9034 (including a Radial Plot Report for T-9035)

26 CONTROL

Two sheets, listing the control held and the control not held accompany this report. Included are the following: 17 triangulation stations, 9 stations established by Lt. Comdr. Wilder (especially for T-9034) and 15 U.S.E. stations that were considered held in the plot; those considered not held were 4 U.S.E. and 5 C.& G.S. stations. Of those stations not held, four were ground markers of doubtful office recovery without field verification and the remaining five landmark stations could not be held due to inadequacies of the photographs discussed in the following Radial Plot Report.

27 RADIAL PLOT REPORT FOR T-9034 and T-9035

A continuous plot of some 60 transparent acetate templetes was laid for T-9034 and T-9035.

CONTROL DENSITY - Although there seemed to be more than the usual amount of control available, the density at the large scale of 1:5,000 wasn't all that could be desired, particularly, for T-9034. Only 2 or 3 photographs out of 28 on T-7-9034 had as many as 3 control stations from which to begin a plot with some certainty of having a fixed position.

CONTROL IDENTIFICATION - Verification of the office recovery of control stations that are landmarks was not necessary. However, field verification of the office recovery of the U.S.E. ground stations would have been helpful.

PHOTOGRAPHS - The Navy photographs used are on single weight paper which has a high distortion factor. Althought they were flown in 1946, the flights were not all flown on the same or even succeeding days. The flight designated by the number 6 is of larger scale than that of the manuscript while that designated by the number 2 is of approximately the same scale as the manuscript.

CIOSURE AND ADJUSTMENT - The flights held to control and the closure of the pass point intersections was satisfactory in each of their respective areas. However, the intersections of the pass points between flights (in the sidelap) were formed by small angles - very often 15 degrees or less - due to the inadequate sidelap which was approximately 10 per cent.

AREAS OF QUESTIONABLE ACCURACY - None other than those in the sidelap between flights mentioned in the preceeding paragraph.

Templetes 6-19 to 6-25 along the shore in the S.E. portion of the T-9035 were relaid to obtain stronger positions for SAND ISLAND, TWIN STACKS, the KEWALO INCINERATOR STACK and the lights in the area.

28 DETAILING

The flight designated by number 6 with a larger scale than the manuscript required the use of the projector. Flight 2, along the shoreline, was very close to scale and obviated its use.

Any difficulties encountered in the compilation of any sidelap areas were due principally to the factors already mentioned above under RADIAL PLOT.

Lack of two cuts in the N.W. corner of the manuscript is the reason for not continuing the compilation to the limit of the projection.

Recent field information furnished and used for this compilation includes the following:

- (1) Positions for 9 additional stations see item CONTROL above.
- (2) Ozalid for C.S. 402 with corrections and additional information.
- (3) Chart 4132, 7-28-45, with additional information.

29 SUPPLEMENTAL DATA

A Navy construction plan, dated June 30, 1945, OA-NI-1350, of approximately the same area as T-9034 was compared for the azimuths of the airport and the seaplane runways.

30 MEAN HIGH WATER LINE

Other than the year 1946 in which these photographs were taken, no information is available as to time and date of exposure. The range of tide in the Honolulu area is some-what between 1 and 2 feet and the shoreline compilation was made at the tide level appearing on the photographs.

The small shoal area in the western portion of the manuscripts also includes an indefinate shoreline which is indicated by a thin line. The whiteness and flatness in this area produced no clear image under the stereoscope.

31 LOW WATER AND SHOAL LINES

The coral and shoal lines have been indicated by appropriate symbols.

32 LANDMARK AND AIDS TO NAVIGATION

Positions of Landmarks and Aids in the areas for T-9034 and T-9035 have been submitted by Lt. Comdr. Wilder, December 31, 1947, Chart L 764.

36 LANDING FIELDS AND AERONAUTICAL AIDS

Manuscript T-9034 includes all of Honolulu Airport and most of the Naval Seaplane Base. The position of the Honolulu Airport Beacon is given in the Chart Letter mentioned in the preceding paragraph.

Positions of the lights along the seaplane runways have been determined for the most part by radial plot. The various color markings of these lights have been omitted but such particular information may be obtained from the Aeronautical Chart Branch.

37 CLASSIFIED INFORMATION

Much of the information contained in this manuscript is classified "RESTRICTED". See ozalid for this sheet furnished by Lt. Comdr. Wilder.

38 GEOGRAPHIC NAMES

Geographic name form M234 accompanies this report. Kamehameha Highway on T-9034 becomes Dillingham Boulevard after crossing the bridge over Moanalua Stream into Honolulu proper on T-9035 - from a road map furnished by the Honolulu Office.

14 COMPARISONS WITH EXISTING TOPOGRAPHIC QUADRANGLES

Changes brought about by the construction of the airport and seaplane base are not included in any quadrangles of the area now available and satisfactory comparison is not possible.

45 COMPARISON WITH NAUTICAL CHARTS

Chart 4132, dated 8/11/47 at 1:20,000 includes the area compiled. Mapunapuna, Ahua, Kaihikapu and Weli Ponds (the last two are not within the area of T-9034) are now completely filled in as indicated by the field edit for C.S. 402. Two of the three Railroad spurs and the Railroad line coming down from the North in the Northwest corner of Chart 4132, 8/11/47 have not been found on the photographs and no reference is made to their omission from C.S. 402 in the field edit and therefore they are not shown on T-9034.

It is believed that the manuscript adequately portrays the required topographic detail and shoreline structure in the area.

Date: 9-19-48
Submitted by:

Date: Reviewed by:

Date: 9/29/48
Approved by:

CONTROL STATIONS HELD IN RADIAL PLOT FOR T-9034 and T-9035

NAME OF COMMOS OF THE				TYPE		VERIFI=	
NAME OF CONTROL STATION			SOURCE	MARKER	RECOVERY	CATION	DAT
Allen & Robinson, Warehouse		7-903	5 C&S	Landmark	Office		192
Incinerator Stack		,,		11 -	n n		198
Judiciary Building, Flagstai	er (Towe	(R) "		# -			
ost Office, Tower, Flagstai	ee - N.W	1. "	11	11 -	11		190
ost Office, Tower, Flagstaf	ff - S.E	- 11	Ħ	H -	***		192
Radio Station KGU, Mast - We	est	"	n	11 -			
dadio Station KGU, Mast - Es	ast	at	11	n -	11		193
merican Cannery Co., Water	Tower .	41	Ħ	n.	11		
ineapple Tank			n	n _			192
ed Gas Tank		21		11			1921
loha Tower		"	11		H		192
ome, American Factor's Buil	ding .	ir	11	n -	. 11		192
alihi, Fire Station, Tower		nr.	Ħ				192
t. Schafter, Flagstaff .		pr	11		11		
ahu Pen., Tower		th.		11			190
tation G, Tower (TOWE,	R)	T-9034		n <u>~</u>			192
gloo		**	U.S.E.	Ground	Field	m-11	
dar, Tower, Fire Control		, H -	Field	Landmark	AND REAL PROPERTY AND ADDRESS OF THE PARTY O	Field	194
ngar, N. Gable		A	"	- H		-	
eel Tower					11		
molulu Airport Beacon (A	ERO)	*1	**	"-	11		
dar, Tower, Westerly & Hig	hest	**		n	**	"	
entre of Building, Pistol R	ange	41	n	11	,,		
mk, Sand Island (STANDP	IPE) 7	9035	Ħ	n-	**		"
agstaff	T	9034			11		
ean 161/6 TZ, 0	6-6039	3 " . 1	J.S.E.	Ground	Office	None	
oal	"	"	11	#	u e	NONe /4	42-4
ff		**	H		11		6
ndes ·	n T-	9035		n	11	"	"
ki . A A A A A A A A A A A A A A A A A A	*	W	**	11	11		
er 36 .	n	14	Ħ			11	
er 32	0	- we	11	* ti			
a		M		11	11	"	
hia -		at .	11	11			
al Dook	11	A. III	11	11	11		
er 10	**	W.	11	11	11		**
er 8	· · ·	101.	11		"		**
	, 79	034	-	n	"		"
rminal		111	11	H	11	11	11
	11				44		
st End Runway		035	11		11	11	11
st End Runway palama Basin		035	n CEC T	andil1-	"		
st End Runway palama Basin S. Quarantine, Flagstaff	. 19	a		andmark	1 7,		1928
st End Runway palama Basin S. Quarantine, Flagstaff er 2	11 T9	a u	U.S.E.	Ground	Office	None	1928
rminal st End Runway palama Basin S. Quarantine, Flagstaff er 2 mping Station Chimney (57A) nd Island, South Base, 1927	, T9	a	U.S.E.		Office	None	

CONTROL STATIONS NOT HELD

NAME OF CONTROL STATION	7.600	**	SOURCE	TYPE MARKER	RECOVERY	VER IFT+ CATION	DATE
Pier 40 Locrete Monument	6-6037	79035	U.S.E.	Ground	Office	None	
Ft. Armstrong, Flagstaff Supola, City Hall		et e	C&G	Landmark -	II .	•	
St. Andrews Cathedral, High	est Towe	er i	11	W.			

v = Appear as landmarks on chart 4132 and 4109

DATA RECORD

T- 9035

Quadrangle (II):

Project No. (II):

Field Office: Honolulu

Chief of Party: Lt. Comdr. L. C. Wilder

Oahu l., Hawaii

Compilation Office:

Chief of Party: L. C. Lande

Graphic Compilation Section

Instructions dated (II III):

Division of Photogrammetry, Washington, D. C. nstructions dated (II III): Copy filed in Descriptive

Report No. T-

Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed: 4 Feb. 1932 Applied to chart No.

Date:

Redrafting Completed:

Registered: 20 April: 1953

Published:

Compilation Scale: 1:5,000

Published Scale:

Scale Factor (III): 1:00

Geographic Datum (III): Old Hawaiian

Datum Plane (III): M H W

Reference Station (III): Sand Island south base, 1927

Lat.: 21° 18' 306.4 m.

Long.:

157° 52' 644.5 m. Adjusted Unadjusted

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

′	Number	Date	Time	Scale	Stage of Tide
	5-16 to 5-28 xx-10 to xx-20 6-4 to 6-25 2-28 to 2-40 (includes phot T-9034 and T-		?	1:5,000	• •

Tide from (III): Tide Tables

Mean Range: 1.2' Spring Range: 1.9'

Camera: (Kind or source) Navy (Camera - K-18)

Field Inspection by: none date:

Field Edit by: Lt. Comdr. L. C. Wilder date: Dec. 31, 1947

for C.S. 403

Date of Mean High-Water Line Location (III):

Projection and Grids ruled by (III) T. L. J. date:

" checked by: T. L. J. date:

Control plotted by: B. J. Colner date: 3-47

Control checked by: L. M. Gazik date:

date: 4-48 Radial Plot by: L. M. Gazik

date: (6-18-47) Detailed by: B. J. Colner, L. M. Gazik

Reviewed in compilation office by: date:

Elevations on Field Edit Sheet checked by: date:

STATISTICS (III)

Land Area (Sq. Statute Miles):

Shoreline (More than 200 meters to opposite shore):

Shoreline (Less than 200 meters to opposite shore):

Number of Recoverable Topographic Stations established:

Number of Temporary Hydrographic Stations located by radial plot:

Leveling (to control contours) - miles:

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

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

Remarks:

Descriptive Report: T-9035

Project:

Location: Honolulu Harbor, Oshu l., Hawaii

Scale: 1:5000

T-9035 was compiled principally to furnish corrections for Nautical Charts # 4109 at 1:5000, # 4132 at 1:20,000, and # 4110 at 1:80,000. This is the second of six shoreline sheets extending from AHUA POINT in the vicinity of HONOLULU to WAILEA POINT on the eastern coast of OAHU.

Compilation was facilitated by field records and notes furnished by Lt. Comdr. L. C. Wilder in Chart letter 764(1947).

This T-sheet is filed in the Division of Photogrammetry and L. 764(1957) is filed in Nautical Charts Branch.

26. Control and 27. Radial Plot Report

ontrol and 27. Radial Plot Report

This information will be found in the Compilation Report for T-9034.

28. Detailing

The flight designated by number 6 - with a larger scale than the manuscript required the use of the projector. Flight 2 along the shoreline, was very close to scale and use of projector was unnecessary. The last three photographs in this flight are over water so that azimuths between principal points were not available.

Any difficulties encountered in the compilation of the sidelap areas were due principally to the factors already mentioned above under Radial Plot.

Recent field information furnished and used for this compilation include the following:

1. Positions for nine additional control stations (all but the STANDPIPE on Sand Island fall on T-9034).

2. Ozalid for C.S. 403 with corrections and additions. 3. Chart 4132, 7-28-45, with additional information concerning the recently filled ponds in the N.W. corner of the manuscript. The photographs used in compiling this area show partial fills, while the latest field information indicates completion of the filling operations. It is suggested that the shoreline in this area be checked in the field since the fill operations may have gone beyond the waters edge.

Some additional information in the vicinity of Sand Run 6 Island was taken from Navy 9x9 photographs at 1:10,000, #4-10 taken November 16, 1946, K-17 camera. These photographs 1559 were not used in the radial plot.

Kalihi Hospital Flagstaff shown in red on the manuscript was transferred from T-4180.

29. Supplemental Data

A Navy construction plan, dated June 30, 1945, OA-NI-1350, at 1:4800 scale, which includes, approximately, the western half of this manuscript, was consulted for the azimuth of the seaplane renway and additional information.

30. Mean High Water Line

For this information see the first paragraph under 30. Mean High Water Line in Compilation Report for T-9034.

31. Low Water and Shoal Lines

The coral and shoal lines have been indicated by appropriate symbols.

32. Landmarks and Aids to Navigation

Positions of Landmarks and Aids in the areas for T-9034 and T-9035 have been submitted by Lt. Comdr. Wilder, December 31, 1947, Chart L. 764.

36. Landing Fields and Aeronautical Aids

Only one of three seaplane runways of the Naval Seaplane Base falls within the limits of this manuscript.

37. Classified Information

Some of the information contained in this manuscript is classified "Restricted". See ozalid for this sheet furnished by Lt. Comdr. Wilder.

38. Geographic Names

Geographic name form M 234 accompanies this report.

44. Comparisons with Existing Topographic Quadrangles

Changes brought about by the construction of the seaplane base and considerable fill operations are not included in any quadrangles of the area now available, and satisfactory comparison is not possible.

45. Comparison with Nautical Charts

Chart 4109, dated March 17, 1947, at 1:5000, covers the Honolulu Harbor area found on the manuscript. Except for some minor changes and a few additional details, as recommended by field edit, the areas charted are in substantial agreement.

Other charts consulted were Chart 4132, 8-11-47 at 1:20,000; T-4180, 1925 at 1:5000; H-4537, 1925 at 1:5000; H-4537a,1927 at 1:5000. The last three named manuscripts have few details and are not recent surveys to make satisfactory comparisons.

It is believed that the manuscript adequately portrays the required topographic detail and shoreline structures in the area.

Submitted by: A. Oh. Saik

Approved by: Lc Lande

ADDITION TO T-9035

This addition - Latitude 21°-20'00" to 21°-21'-00" and Longitute 157°-51'-30" to 157°-54'-00" was necessary to complete the shoreline at the end of the NE - SW seaplane base runway. Photographs and templets from the radial plot described in the report for T-9034 were available to tie the northern portion of T-9034 to T-9035.

L. M. Gazik

November 1948

Name on Survey A B C D E F G H K Salt Lake Salt Lake Kamehamehe Blvd, Cahu R.R. end Land Co. Honolulu Airport Ahua Point Keehi Legoon Mokuced 1 Mapunapuna Pond Inc longer exist; have been filled in Raihikapu Pond Inc l	GEOGRAPHIC NAMES		/	/	1 6	2º /	/ /	/ /	0/	2 /	/ /
Salt Lake Kamehameha Blyd. Oshu R.R. end Land Co. Honolulu Airport Ahua Point Keehi Lagoon Nokuced 1 Mapunapuna Pond Ino longer exist; have been filled in Raihikapu Pond Well Pond Ino longer exist; have been filled in Well Pond Ino longer exist; have been filled in Ino longer exist; have been filled in Well Pond Ino longer exist; have been filled in			/	155	Jodge Jodge	/	/5	9/	Mon	A ANTO	5
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alihi Entrance						·		BLN	1 3
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Sand Island Kapalama Drainage									-
Canal			•					-	
Dillingham Blvd.	-							 	6
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Kewalo Basin			·				EV		14
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Form 567

DEPARTMENT COMMERCE U. S. COAST AND C. ODETIC SURVEY

No. 764(1947) chart Letter

LANDMARKS FOR CHARTS

TO BE CHARTED STRIKE OUT ONE

19347

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

The positions given have been checked after listing.
This report covers Manuscripts Nos. 408 and 403

(principally chart 4109)								0	Chief of Party.
GENERAL		100	POSITION	10				TAA	HANT
	LATI	LATITUDE	LONG	LONGITUDE		METHOD	DATE	В Е СН	CHARTS
NAME AND DESCRIPTION	•	- Section	- 0	Sector.	DATUM	LOCATION	LOCATION	н а кво	HS440
of landmar	to tor of	berts 41	32 end 41	1134 1811	leter !	tadas e	ted as		
Scon as inspect	d from	Beswerd	by airor	irt)					
TOWER (Station 0)	81-18	52.06	167-55	49.84	Heat	Triens.	1925	N	4182
(Honolulu Airport Beacon) 15(10419)	81-18	55.08	357-54	69.83		•	CH3/	P	9
TANK Sand Island Water Tank	81-18	40.16	157-53	02.16	•	•	1947		6019
G.G. TOHER (G.G. Lookout Tower)	See USI	de dre Sh	eut. Chert	t Sec.		Tono.	USED		4100.4789
TWIN STACKS (There is a 3rd stack,	lower)	ditt	9						4109.4199
OHY 150 FT. (Sapalama Incinerator CHY 150 FT. Chimney) 5746/	21-19	52.41	157.52	21,18		Triane.	1946		4100.4130
TANK 140 FF F LITS (Pineapple Shape)	21-19	18.51	157-52	86.59					4109.4130
GAS TANK F R LIES (Southerly of R)	Take fr	Take from 0.10.	\$0\$			Topo.	100		4109.4188
DOME (American Factors Bldg.) "	81-18	40.89	187-61	58.66		200	10		4109,4132
SH STACK (Hawailan Electric Co.)									4109.4132
Tower (Federal Bldg.)	81-18	33.78	167-51	46.56		•			4109,4138
OH SPIRE (St. Andrews Cath) "	81-18	47.33	187-51	35.86			1925	14	4109.4138

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* ×

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

(* Low Chart 4109)

. OUF CITY BALL 1 1) CHASSONYS	21-18		30.88 157-51	35.57			100	(4109.41%
OMY (Pumping Sta 1909)	21-18	04.79	15%-51	56.18	•			5 M	4109,4159
PLAGSTAFF (F.S. Ft. Armstrong 1933)21-18	933)21-18	05.63	167-52	12.36				M	
(Kevalo Incinerator)	21-17	48.25	157.51	52.17			1946	H	x x 4109,4158
old (Incinerator Stack 1930)	21-17	43.11	157-51	47.85		•		H	x x 4109,4152
6 to 12 PM (not occulting)	21-18	22.00	167-171	31.54				H	x x 4109,4132
* ALMEA TOWER (also has F R LTS)	21-18	38.75	157-52	07.42			1928	H	x x x and 413g
(Kelihi Fire Sta 1925)	21-20	04.66	157-52	45.28			1925	M	4138
* FLad Staff (Oaku Prison)	21-19	57.86	157-53	11.57			1925	м	4132

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Form 567 April 1945

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DEPARTMENT COMMERCE

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

+ FE Papt CS-404, 405, 406 1-6-4 Ch. (No 65 (1948)

7-9036

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TO BE CHARTED TOXBEXDELETED

STRIKE OUT ONE

Pacific District Headquarters December 31, 19 47

I recommend that the following objects which have (MANEX MAN) been inspected from seaward to determine their value as landmarks be

L. C. Wilder The positions given have been checked after listing by L. C. Wilder Chief of Party.

						POSITION					18	
STATE				LATI	LATITUDE '	LONG	LONGITUDE		LOCATION	DATE	BE CHY	Jan 1
CHARTING		DESCRIPTION	SIGNAL	- 0	D. M. METERS	-	D. P. METERS	DATUM	SURVEY No.	LOCATION	INSHO	AFFECTED
*CHY 130 FT		Kewalo Old Incinerator		21-17	43,107	157-51	157-51 47,854	Haw		٠	×	4132
*R. TR. (*R. TR. (Neon Lts)	KGU Last and West Towers		21-18	22,000	157.51	30.059	==		0.0.	×	4132 A
*R. TR. (TR. (Occ Lts)	KGMB		21-17	47,921	157,50	33,690		Triang.	1940	н	4132 4131 A
*R. TR. (TR. (Occ Lts)	KPOA		21-17	19.50	157.49	37,13		Triang.	1947	н	4132 4131 A
*R. TR. (*R. TR. (occ Lts)	KHON		21-17	26.63	157.50 20.66	20,66		Triang.	1946	н	4132 4131 A
CH SPIRE	50	Central Union Church		21-18	07.238	157-50	11,386		Triang.	1925	н	4132 4131
TOWER ON HOUSE	N HOUSE	Kumılae 1925		21-17	45,166	157-49	41,822			1925	н	4132 4131
*HOTEL CUP		Royal Hawaiian Hotel		21-16	50.249	157-49	54.270		Triang.	1927	н	4132 4131
SIGN (Ne	SIGN (Neon Lts)	Walkiki Theatre		21-18	54.467	157-49	157-49 49,749			0-	Н	4132 4131
*HOTEL FLAGSTAFF	AGSTAFF	Moans Hotel		21-16	47.042	157-49	45,669			1927	н	4132
TOWER KA	TOWER KAINUKI FIRE	STATION		21-16	53.677	157-48	07.618		Triang.	1925	н	4132
FLAGSTAFF	E.	Graver Flagstaff	•	21-12	31,42	157-47 45.40	45.40			1925	н	4132
*R. TR.	#R. TR. (dec. Lts)	Station KUIA		21-16	42,54	157-46 44.05	44.05		Triang.	1947	н	4131 A
)											

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by 16-51696-1 U. S. GOVERNMENT PRINTING OFFICE individual field survey sheets. Information under each column heading should be given.

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Form 567

COMMERCE U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

STRIKE OUT ONE **WOX BOX DESCRIPTION** TO BE CHARTED

Pacific District Headquarters

. 1947 December 31

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

The positions given have been checked after listing by

landmarks be L. C. Wilder

C. Wilder

CHARTS AFFECTED 4132 A **4132** A Chief of Party. 4132 4132 4132 4132 4132 4132 4132 4132 4132 4133 4132 4132 4132 4133 MAND SHOKENED Ħ H H и Н H Н H TRAND BRONEN 14 н H H TRAND ROBBAH 1945 LOCATION 1925 1933 1925 1931 1925 1925 1925 1946 1928 1947 DATE Çŧ Triang. LOCATION AND BURVEY No. Triang. Trieng. Triang. Triang. METHOD Cuts. Cuts. Cuts. Section Haw. DATUM ¢ D. P. METERS 157-51 56.176 157-51, 58,662 157-52 12,363 Chart 157-51 35,850 157-52 07.419 157-55 49,836 157-52 43,277 157-51 52,17 157-54 49,33 157-52 21.18 157-52 26.60 157-51 35.57 LONGITUDE ARC Sheet Neut POSITION ditto ۰ D. M. METERS 47,329 05,632 40,894 04,787 36,751 52,059 21-20- 04.657 12,50 30,38 48,25 33,08 32,41 LATITUDE See USE 21-19 81-18 21-19 21-18 21-19 21-18 21-18 21-18 21-18 21-17 21-18 ٥ BIGNAL Honolulu Airport Cont. Twr. Kapalama Incinerator Chy. Worl, Hawn, Pine Co. New Kewalo Incinerator Particularly prominent 3 steel stacks Kalihi Fire Station Coast Guard Tower Cupole City Hall Dome Am. Factors DESCRIPTION Andrews Church Pump Sta. Chy. 1909 Armstrong F. S. & G ev 10 SEC 벙 PIANK 140 FT FR LITS (Pineapple shape) CHY 150 PT PR LTS 150 PT PR LIES Q Stag F. TOWER FIRE STA HALL TWIN STACKS *ALOHA TOWER C.G. TOWER PAKRO FL W CUP CITY CHARTING CH SPIRE TOWER. STATE DOME F.S *CHZ

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

10--516pg-1 u. s. covernment Painting OFFICE

COMMERCE DEPARTMENT |

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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STRIKE OUT ONE WANTED CONTRACTOR TO BE DELETED

Form 567 Apfil 1945

Pacific District Headquarters

Decamber 31, 19 47

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be The positions given have been checked after listing by charted on (deleted from) the charts indicated.

L. C. Hilder

Chief of Party. C. Wilder

CHARTS 4133 4131 E ß THAND 3RONE110 INTHOSE CHART HARBOR CHART LOCATION DATE METHOD OF LOCATION AND BURVEY No. DATUM D. P. METERS 49.3 56,7 44.9 LONGITUDE 3 46 43 리 8 4, 1 į POSITION 157 157 157 158 15. 157 157 157 157 ı 0 ı D. M. METERS ditto ditto ditto - 16.8 16.91 19,3 17.2 19.7 17.7 18.7 LATITUDE 위 1 1 21-16 ı 1 2 21 2 ผ 2 짆 얺 2 0 BIGNAL DESCRIPTION Flagstaff on Building Target Shack WATTER TOWER W. TRIPOD FIAGSTAFF Flagstaff CHARTING NAME Cupola TOWER TOWER HOUSE FIAG STATE

aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given. 16-51696-1 p. s. sovenament relating DFPRE Positions of charted landmarks and nonfloating This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

BTRIKE OUT ONE WOX BEX DECETED TO BE CHARTED

Pacific District Headquarters

December 31, 19 47

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

The positions given have been checked after listing by

L. C. Wilder

										Ö	Chief of Party.
STATE				4	POSITION			METHOD		i	
			LATE	LATITUDE	LONGITUDE	TUDE		LOCATION	DATE	45 SE	CHARTS
CHARTING	DESCRIPTION	SIGNAL	-	D.M.METERS	-	D. P. METERS	DATUM	BURVEY No.	LOCATION		
	A - Recommended charting on 4110				-						
*AERO, OD	one to four flashes		81-18	48.4"	158-04 16 6"	וא או	MoM	, c			
*AERO, FI	FI Gest Field Aero Beacon		21-20	21.88	157-57	28.41	USE T	Tono		-	4 133 A
*TOWER & HI	*TOWER & SPIRE Hicken Field Water Tower		21-20	45,611	157-57			Triang.			
*AERO FL R	R West Lock Water Tank		21-21	19,972	159-00	29,885		Triang.	1932		
*AERO, on	one to four flashes Kaneobe NAS Aero Beacon		21-27	04.11	157-45	34.55	Nevy	Topo.			A
*CHX	Kahúku M111 Chy.		21-40	55.523	157-57	099.60			1927		A
*CHIX	Waielus Mill Chy.		21-34	36.919	158-07	158-07 40,304	1		1927		*
*CHY	Walsnae Mill Chy.		21-26	51,257	i	158-11 23,226		Triang.	1927		A
*CHTS	Ewa Mill Chys.		21-20	38,592	158-02	17,659					4133 A
CHYS	Waipahu Mill Chys.		21-23	22.072	158-00	35,438					4133 A
					;						

Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. individual field survey sheets. Information under each column heading should be given.

1 October 1947

To: Lt. Comdr. L. C. Wilder
U. S. Coast and Geodetic Survey
P. O. Box 3887
Honolulu 12, T. H.

Subject: Field edit of photogrammetric manuscripts C.S. 402 to C.S. 406 inclusive - Ahua Point to Kapoho Point

- l. The subject manuscripts together with the aerial photographs are being forwarded to you for field verification to determine their adequacy for nautical chart revisions. Enclosed with this letter is a layout showing both the manuscripts and aerial photographs from which they were compiled. You will please make a field examination of these manuscripts and return them to this office with a report and notes made directly on the manuscripts showing additions and changes necessary in order that the manuscripts will be complete and adequate for revision of nautical charts 4109, 4110, 4131, and 4132.
- 2. Your field inspection of these manuscripts shall be made in accordance with instructions contained in this letter and in accordance with the following paragraphs of Field Edit Instructions, dated August 24, 1945, a copy of which is enclosed: 1, 3, 9, 10, 15, 16, 17, 25, 28, 31, and 47.
- 3. The reference manuscripts were compiled in the Washington Office from serial photographs taken by the Navy and furnished by you. The manuscripts have been compiled without the benefit of field identification of control points or the benefit of field clarification of photographic details. Therefore, they are subject to errors and omissions due to faulty office interpretation, and must be field inspected and subsequently revised before they can be considered as adequate for revising the nautical charts. These manuscripts when completed will be permanently filed as topographic surveys in the Bureau archives, but they will not be published as planimetric maps. Therefore,

your field examination and the subsequent revision of the manuscripts may be confined to physical and cultural features of significance to the nautical charts, but need not include details which are not of significance to nautical charts.

- 4. The limits of detailing on the manuscripts have been controlled by the coverage of the photographs and do not extend over the entire area covered by the charts listed above. The most important manuscripts are numbers 402 and 403, scale 1:5,000, which will be applied to chart 409. These will require a more detailed examination than the smaller scale manuscripts 404 to 406 inclusive. A copy of the office report covering the compilation of each manuscript will also be furnished to you for your information.
- 5. Landmarks. Landmarks within the area covered by the manuscripts shall be inspected and reported on according to instructions in the Hydrographic Manual.
- 6. Shoreline. Shoreline and water front structures within the harborkareas covered by manuscripts 402 and 403 shall be inspected in detail and required corrections indicated. The shoreline covered by manuscripts 404 to 406 along the open coast shall be inspected generally as regards the accuracy of office interpretation.
- The state of the s
 - will please indicate that fact by a note on a print of the manuscript. If a feature is to be added and is visible on a photograph, the note should carry a reference to the particular photograph. Where you recommend that a feature be added but is not visible on the photographs, it will be necessary that you plot the feature in position on a print of the manuscript.

9. Establishment and identification of additional control points. - The descriptive report for each manuscript contains a summary of the control available and the probable accuracy of the compilation. In general, the manuscripts are believed to be of sufficient accuracy for chart revisions, with the exception of possibly the western edge of manuscript 403 and all of manuscript 402. In the latter area, sufficient control could not be identified in the office, and it is necessary that control points be established and identified by you. These will then be used to test the manuscripts and to recompile manuscript 402 and part of manuscript 403 if necessary.

O.Triangulation and traverse stations for which positions were available in this office are plotted on manuscripts 402 and 403. Not all of these stations could be identified in the office to control the radial plot, but it is believed that these stations can be used by you to locate additional identifiable control points by three-point-fix, by intersection, or by distance and direction. Therefore, you will please endeavor to provide additional control points in places indicated approximately by red circles on one set of the prints of manuscripts 40% and 403 being forwarded to you.

- ll. The objects located by additional control shall be indicated approximately on the field edit sheet returned to this office and shall be indicated exactly on the clearest photograph.
- 12. Upon completion of this field examination, you will please return one set of the prints of manuscripts 402 to 406 with notes thereon indicating the desirable additions and changes. These shall be accompanied by one field edit report covering all six manuscripts and stating your conclusions as regards the revisions necessary and final adequacy of the maps for chart compilation. This report should also state any change in this procedure which you recommend for future projects of this kind.
- 13. You will please not hesitate to request clarification or amendment of this letter if you consider such to be desirable to accomplish the purpose indicated herein.

Director.

REVIEW REPORT T-9034 and T-9035 Shoreline Manuscripts 4 February 1952

62. Comparison with Registered Surveys:

T-3156	1:20,000	1910-11
T-4138	1:5,000	1925
T-4150	, π	f1
T-4180	17	17
T-4181	77	ff

63. Comparison with Maps of Other Agencies:

None

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

4110	1:80,000	Oahu Id.	ed. Aug.	1944, rev. Apr. 1951
4132	1:20,000		ed. July	1950, rev. Jan. 1951
4109	1:5,000	Hono lu lu	Har. ed.	Mar. 1949, rev.
				Feb. 1951

T-9034 and T-9035 were applied to charts 4109 and 4132 prior to review. No revisions of significance to charts were made during review.

66. Control:

The degree of accuracy of the control established in 1947 for the purpose of making a new radial plot is not known. No field records or computations were furnished the Washington Office. The stations are delineated on the map manuscripts by triangles, though they may be of only fourth order accuracy (G-6039, geographic positions p.2). Acopy of the list station by Comdr. Wilder (Chart Letter No. 764, 1947) is attached to this report. Geodesy was informed that these control stations had been established and they have made note of the above facts in their card file.

67. Aids to Navigation:

Four aids, which were visible on the photographs, were added to T-9035 during review:

Kewalo Basin Lighted Buoy 8 Honolulu Channel Range Front Honolulu Channel Range Rear Honolulu Fort Street

The range lights for Kewalo Basin entrance have been rebuilt since T-9035 was delineated. The charts have them plotted in the new positions.

Triangulation Kapalama Basin Light No. 1, 1940 (USE) has been removed from the map manuscript T-9035 because this light no longer exists.

68. Mean High Water Line:

Because only the year of photography is known, the stage of tide recorded on the photographs cannot be accurately determined. Heading 30 of the Compilation Report says the shoreline was drawn at the level of water appearing on the photographs.

An examination of the photographs discloses that the stage of tide was probably at the lower high water, or near mean low water. This situation would place the MHW line farther inland. However, the shoreline in the area of T-9034 has little navigational significance, and the shoreline in the area of T-9035 is almost wholly seawall or bulkhead, so that the stage of tide does not affect the horizontal position of the MHW line.

No effort was made to a djust the shoreline during review.

69. Accuracy:

The shoreline and near-shore features are adequate for charting purposes.

In the interior, roads include the sidewalks, thus making buildings appear in contact with the road. Buildings are drawn too large and not always in true relationship. This inaccuracy of interior detail is largely due to the large scale of the photographs.

Reviewed by:

Lena T. Stevens

Approved:

Chief Review Section / Div. of Photogrammetry

Chief, Nautical Chart Branch Division of Charts er

Chief, Div. Photogrammetry Chief, Div. Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. <u>9034</u>

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1/6/49	4132	J9 Melsam	Before After Verification and Review
10/23/57	4110	m. Rogen	Bottally office. After Verification and Review
//-//-G/	4109	G.R. Johnson	Before After Verification and Review Applica
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A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

NAUTICAL CHARTS BRANCH

SURVEY NO. 7 9035

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
8/24/48	4109	Po ma Jann	Before After Verification and Review
/ //			Reconstruction of Chart 4109
10/22/57	4118	m. doger	Reconstruction of Chart 4109. Examined Before After Verification and Review (Att March) The care.
		V	0
11-11-61	4109	G.R. Johnson	Before After Verification and Review Applied during
	1.00		revision of limits
8-15-63	Twet	DE Wellroch	Defense After Verification and Review Added 5 light
			Structures & dolphin to Inset 4109.
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