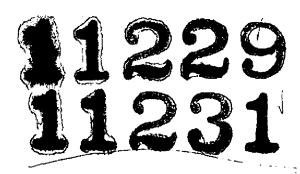
11228



ので (VC) (VC) (VC)

Diag. Cht. No. 6380.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of	SurveShoreline	(Photogrammetric
---------	----------------	------------------

Field No. Ph-98 Office No. T-11228 thru

LOCALITY

State Washington

General locality Fidalgo Island

Locality Anacortes

194 52-53

CHIEF OF PARTY

F. Natella, Chief of Party F. Natella, Portland Photo. Office

LIBRARY & ARCHIVES

DATE June 10, 1958

8-1870-1 (1)

T- 11228 thru 11231

Project No. (II): Ph-98

Quadrangle Name (IV):

Field Office (II): Anacortes, Washington

Chief of Party:

Fred Natella

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Fred Natella

Instructions dated (II) (III): 13 July 1953

Copy filed in Division of

Supplemental Instructions

Photogrammetry (IV)

C. S. 241 dated 3/11/53 and 5/8/53

Letter 731-mkl dated 7/23/53

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 27 Feb 1958

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water X Elevations shown as (5) refer to sounding datum 🗶 i.e., mean low water or mean lower low water

Reference Station (III):

See reverse side this page.

Lat.:

Long.:

Adjusted Unadjusted

Plane Coordinates (IV):

State:

Zone:

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.

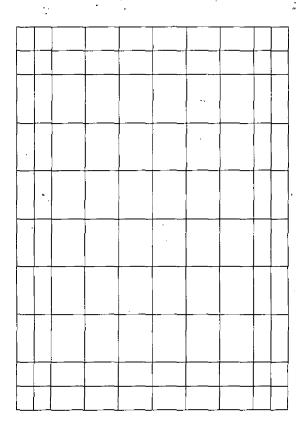
Form T- Page 1

M-2518-12(4)

T-11228

SHAN, 1940				- 10
•	48°	30 1	33.241"	1026.8 (826.5)
	122°	401	55.074"	1130.4 (101.1)
	•		Ís.	- · · · · · · · · · · · · · · · · · · ·
T-11229			2	
			·	* * * * * * * * * * * * * * * * * * * *
POINT, 1927	7			2
•	48°	31 1	44•963"	1388.9 (464.4)
*•	1220	341	25.547"	524.1 (706.9)
T-11230				· <u> </u>
ERIE, 1939				
דללד פטואם	480	271	43.317"	1338.0 (515.3)
	1220		19.036"	391.1 (841.5)
	IZK	27	19¢000	7711 (CHI.)
T-11231				.*
PEW, 1939				
•	48°	28*	25.271"	780.6 (1072.7)
	122°	321	27.746"	569.9 (662.4)

3.



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

Form T-Page 2

DATA RECORD

Field Inspection by (II): John H. Winniford Date: Sept. - Nov. 1953 William R. Kachel Planetable contouring by (II): Date: Completion Surveys by (II): Date: Mean High Water Location (III) (State date and method of location): Spot located on field photographs during Sept. Nov. 1953. Located on office photographs by stereoscopic study and then detailed on map manuscripts Projection and Grids ruled by (IV): Date: Projection and Grids checked by (IV): Date: Control plotted by (III): William R. Kachel Date: March 1954 Control checked by (III): J. E. Deal, J. L. Harris, & Date: March 1954 V. E. Serena Radial Plot or Stereoscopic J. L. Harris & J. E. Deal Date: May 14, 1954 Control extension by (III): Planimetry Date: Stereoscopic Instrument compilation (III): Contours Date: Manuscript delineated by (III): See reverse side this page Date: Photogrammetric Office Review by (III): See reverse side this page Date: Elevations on Manuscript Date: checked by (II) (III):

Form T-Page 3

M-2618-12(4)

• -	. Delineation	Date	Office Review .	Date	,	•
T-11228 T-11229 T-11230 T-11231	D. N. Williams D. N. Williams C. C. Wiebe C. C. Wiebe	6/30/54 9/15/54 7/6/54 10/1/54	J. L. Harris J. E. Deal J. L. Harris J. E. Deal	8/5/54 9/28/54 8/3/54 10/8/54		
	+ 1.		,	·		

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		PHOTOGRAPHS	(III)			
Number	Date	Time	Sca	ale	Stage of Tide	
, t	+ E	1	1	t .		
36352 thru 36360	5/12/52	10:26	1:10,000	0,2 ft.	below M.L.L.W.	-1.7
36362 thru 36368	5/12/52	10:33	1:10,000	0.2 st.	below M.L.L.W.	10 75
36377 thru 36380 -	5/12/52	10:42	1:10,000	0.2 ft.	below M.L.L.W.	1.9
36422 thru 36429	5/12/52	11:44,220	1:10,000	0.3 ft.	below M.L.L.W.	-2.5
36485 thru 36492.	5/12/52	12:39	1:10,000	0.3 ft.	below M.L.L.W.	-2.0
36538 thru 36541	5/12/52	13:35	1:10,000	0.2 ft.	. below M.L.L.W.	
36568 thru 36569 -	5/12/52	13:52	1:10,000	0.2 ft.	. below M.L.L.W.	-1.7
	• '			•		

5-12-52 hi.@ 2:44 = 7.2 Anacortes 60 @ 12:09 = -2.52

Tide (III)			[Ratio of Me	Diur ean Spring	
	MHHW.	MHW	Ranges Ra	nge Range	<u> </u>
Reference Station: Port Townsend, Washington		7.84/	5	1 8.3] .
Subordinate Station: Anacortes, Guemes Channel	8.20	7.40	0.9 1	8 8.2	7 4 0;30
Subordinate Station:					
Washington Office Review by (IV):			Date:		
Final Drafting by (IV):			Date:		
Drafting verified for reproduction by (IV):			Date:		
Proof Edit by (IV):			Date:		
Land Area (Sq. Statute Miles) (III): 40				-	
Shoreline (More than 200 meters to opposite shore) (III): 78					
Shoreline (Less than 200 meters to opposite shore) (III): 8					
Control Leveling - Miles (II):					
Number of Triangulation Stations searched for (II): 106	Recovered	i: 72	Identified	d: 34	
Number of BMs searched for (II): 29	Recovered		Identifie		
Number of Recoverable Photo Stations established (III):		~,			

Remarks: * B. M. locations were spotted on photographs

Number of Temporary Photo Hydro Stations established (III):

FIELD INSPECTION REPORT

FOR

QUARDANGLES T-11228, T-11229, and T-11230, and T-11231

Project Ph-98

1. Area Covered:

This report covers the entire area whithin the project limits and includes all or part of the following land areas:

1.	Allan Island	T-11130
2.	Burrows Island	7-11130
3.	Cypress Island	T-11228
4.	Dot Island	7-11229
5.	Fidalgo Island	7-11228-9-30-21
6.	Guemes Island	T- 11228 49
7.	Hat Island	T-11229
8.	Huckleberry Islan	
9.	Saddlebag Island	<i>"</i>
10.	Strawberry Island	
11.	Williamson Rocks	T-11130
12.	Young Island	7-11130

2. Areal Field Inspection:

(a) General description of the area.

All of the land covered by this report is surrounded by tidewater. In general the topography is quite rugged. The bulk of the area is covered by coniferous timber which gives way to numerous outcrops of bedrock here and there, adjacent to which a thin mantle of grass has established itself. The rock outcrops are rounded and scoured by glaciation. There is some cultivation in the flatter areas which have a deeper soil base.

Allan Island - See photographs 36358, 36359, and 36363.

In general the mean high water line fronts on a wave cut bluff of varying height. Above the bluffs rise slopes of moderate to very steep grades. At extreme low tides a rock ledge which parallels the rocky areas is exposed. There are occasional coves with beaches of sand and gravel. Burrows Island - See photographs 36357, 36359, 36364, and 36365

For general description see Allan Island. On the most westerly part of Burrows Island is a small Coast Guard base for the maintenance of Burrows Island Lighthouse. In a cove off the eastern shore of the island is a group of dolphins which have been used to moor logging rafts for small logging operations.

Cypress Island - See photographs 36367 and 36379

On the southeast side of this island, extending from Reef Point to triangulation station SPUR, the mean high water line fronts on a beach of sand, gravel, and boulders. This beach is about 30 feet wide and fronts on a steep wave cut bluff. In the offshore areas there are numerous rocks. These were indicated on the photographs when they could be identified. Numerous reference ties to the mean high water line were established by pacing. On the southwest side of the island, from Reef Point to Strawberry Bay, the mean high water line fronts on a narrow beach, 25 to 35 feet wide, consisting of boulders and gravel which in turn fronts on a steep wave cut bluff. Few rocks were observed in the offshore areas. The above also describes the shoreline of the remainder of the island except Secret Harbor. Here the banks are low, narrow beaches are of sand and gravel and the bay is shallow. There is a small settlement at the head of the bay which consists mostly of "Boys Home", a private school for wayward boys. There is considerable logging being done on this island.

Fidalgo Island

The interior areas with the exception of the City of Anacortes are generally hilly and covered by coniferous timber. Some of the area in the less rugged sections has been cleared and is being farmed. The peninsula, marked by March Point at its northern extremity, is mainly farm land with some wooded covering in the north and central portions.

The western shore is rugged with shore line along the base of near-vertical bluffs in many places. Numerous outcrops of bed rock extend into the water with occasional narrow sand and boulder beaches exposed at low tides. There are numerous rocks and as many of these as could be identified have been indicated on the photographs.

The city of Anacortes is built up along the shore with piers, canneries, and warehouses. On the eastern side of the city there is a large pulp mill, plywood plant and lumber mill with their accompanying log pens extending far out into Fidalgo Bay. These log pens are made up of rows of piles and dolphins with logs chained

between to form pens.

Capsante is a high, rugged, rock outcrop with sheer cliffs extending to the water surface. The lower end of Fidalgo Bay is an extensive mud flat that bares at low tide. The eastern portion of the project has mud flats that bare at low tide and several low sand and mud islets made up of spoil from the dredging of the channel to Swinomish Slough. These islets are constantly changing in size and shape due to the action of the elements and continual dredging operations.

Guemes Island - See photographs 36353, 36354, 36422, and 36423.

This island is much lower and flatter than the rest of the islands in this project. A considerable portion of it has been turned into fertile farms. It is covered by a well maintained road system. In the northeast and northwest portions of the island adjacent to the project limits, the mean high water line fronts on sandy beaches, and there are no high bluffs inshore. There are a number of tourist cabins throughout this area. On the southwest side of the island the mean high water line fronts on a beach which is variously sand, gravel, and boulders. The beach in turn fronts on a pronounced sandstone bluff. There are occasional rocks in the offshore areas. From the southwest corner of the island to Guemes ferry landing the beach is mostly sand and there are no high banks inshore. The occa- book sional piling in the offshore areas were located from photo sub points using triangulation for azimuth and stadia for distance. $e^{ho \cdot k}$ southeast point of the island, bluffs of varying height face the water. Beaches of gravel or boulders, are narrow or nonexistant at high tide. There are numerous rocks offshore; as many as possible were identified. The occasional piling in the area were located by azimuth and stadia distances from either photo sub points or triangulation stations. On the northeast side of the island save for the extreme northern part of the project, and except for occasional coves, the mean high water line fronts on a wave cut bluff, and at mean high. water beaches are virtually non-existant. A rugged, near vertical, bluff fronts the water immediately northwest of Ship Harbor.

Hat Island, Dot Island, Huckleberry Island, and Saddlebag Island - See photograph 36490

On all of these islands the mean high water line fronts on a wave cut bluff and at extreme low tides a wave cut rock ledge is exposed. On the south side of Huckleberry Island, low tide exposes a beach of large boulders. Strawberry Island - See photograph 36379.

On the west side of this small islet the mean high water line fronts on a near vertical rock bluff; the same holds true for the east side of the island and a rock ledge extends out from the mean high water line at low tide; a rock ledge extends well out from the south end of the island

Williamson Rocks - See photograph 36363.

7-11230

A group of bare rocks connected at low tide by boulder beaches.

Young Island - See photograph 36359. F-1/230

This island has a thin mantle of trees and brush. There is one cabin on the island. The mean highwater line fronts on a wave cut bluff with the associated rock ledge exposed at low tide. Rock ledges extend well out from both ends of the island.

(b) General notes on field inspection:

Field inspection was done in accordance with the project instructions and the topographic namual.

The photographs for this project were taken at an extremely low stage of the tide. Therefore, numerous rock ledges and reefs which would otherwise not be visible are shown on the photographs. However, at the time of field inspection, the tides remained quite high, generally, which made adequate field inspection of all features quite difficult. In many cases rocks were found by going into the area with a boat and using an oar for a sounding rod to locate and get the approximate height of the rock.

A few offlying rocks shown on USC&GS Naut. Chart #6376 could not be verified due to the high tides during daylight hours during the period of field inspection. These should be investigated by the hydrographer. A copy of USC&GS Naut. Chart #6376 with the rocks marked that could not be verified is enclosed with the field records for the project. (These notes were transferred to letter-size sections of the chart and attached to Notes for the Hydrographer for the 1955 season.) In

The shoreline was first field inspected then the field work checked with a stereoscope, and a second inspection trip was made to clarify details and doubtful points. In the areas where the mean high water line fronts on sandy beaches or gravel, numerous paced or taped reference ties have been made. Where the shoreline fronts on vertical rock bluffs and paced distances were impossible, the mean high water line can usually be distinguished on the photo by a faint

dark line with lighter areas both above and below it. The mean high water line has been delineated in red on the photos.

At the northern entrance to Swinomish Slough (see photo 36539) there are several small sand islands. These islands are formed by dredging operations along the channel. The mean high water line on these islands is subject to considerable change throughout the year. Numerous pilings and dolphins in this area were located by sextant fixes. The data for these fixes is recorded on the back of photo 36569.

The details on the photo were clear and the coverage adequate.

3. Horizontal Control

No supplimental control was needed and none was established. A systematic recovery of all triangulation in the project area was made but only those stations necessary for control of the plot were identified.

One station, BLAKE 1939, has been submitted with a doubtful identification. This station was set on a rock shelf on the side of a steeply sloping bluff. All ground details that could be seen checked the identification. However, a complete check of ground detail would not be possible without climbing gear.

4. Vertical Control:

Vertical control was not required for this project. However, most of the vertical control within the project limits, when easily recoverable, was spotted on the photographs to aid in later recovery. No attempt was made to identify the B.M.'s more accurately.

5. Contours and Drainage:

No contouring is being done. The very few drains noted have been shown on the photographs in blue.

6. Woodland Cover:

The bulk of the woodland is coniferous and is moderately heavy.

7. Shoreline and Alongshore Features:

- (a) The mean high water line: See paragraph 2, section b of this report.
- (b) The low water line: The low water line was not defined. There is some confusion by field inspectors between the symbolization of apparent shoreline and the low water line, and the short dash in the apparent shoreline symbol has dwindled to a dot in many cases. Now-ever, no low water line was delineated on this project and all such symbolization is apparent shoreline.
- (c) The Foreshore: Numerous rock ledges show on the photographs that are usually covered due to the fact the photos were taken at a minus tide. All prominent rocks that were visible at time of field inspection were noted on the photos along with time, date, and height. Where the boulders and rocks were too numerous to note individually a generalized note was made.
- (d) Bluffs and Cliffs: In most cases where bluffs or cliffs extend to the waters edge the mean high water line is at the base of the bluff except where noted otherwise.
- (e) Docks, Wharves, Piers, Landings, Etc.: In the city of Anacortes there are many piers and buildings alongshore and the mean high water line could not be shown. The outline of the piers were accentuated in red where it was not clear on the photographs. Notes were made on the photos on any items under this heading. Excepting Guemes Island and Fidalgo Island, there is very little development and consequently very few of the above features. There is a small pier in Secret Harbor on Cypress Island and the Guemes Island Anacortes Ferry Slip is on Guemes Island. Guemes Island is the only one which is connected to the mainland with regularly scheduled ferry runs.
 - (f) Submarine Cables: There are four submarine cables in the area covered by this report. One leads west from Sunset Beach to the San "" Juan Islands, two connect the City of Anacortes with Guemes Island to the north and the fourth crosses the Swinomish Slough just south of the vertical lift bridge on State Highway No. 1
 - (g) Other Shoreline Structures: Several of the piers and buildings shown on USC&GS Naut. Chart No. 6376 along the northern edge of Fidalgo Island west of Anacortes have fallen to ruin and in many cases only a few pile ruins remain to mark the area. Notes were made on the photographs where applicable.

8. Offshore Features:

See section No. 2, part b.

9. Land marks and Aids:

List of landmarks will be submitted on form No. 567. Fixed navigation aids are reported on form No. 567. Floating aids were not located. (attached)

10. Boundaries, Monuments and Lines:

Not applicable.

11. Other Control:

All recoverable topographic stations within the project limits were searched for. Station Rel was not recovered. Stations Sine, Tik, U.S.E. B3+20.8, and Wep were considered lost. The following were recovered and all except U.S.E. B62+38.8 were identified on the photographs to be located in the new plot: Swit, U.S.E. B53+03.6, U.S.E. B62+38.8, Ram, Gret, Nor, Spart, and Pont. The following new topographic stations were established by the party: Capsante Range Rear Light, Capsante Range Front Light, Tank, and Stack.

12. Other Interior Features:

The few roads in the area were classified as either double dash lines or double solid lines.

Buildings were noted on the photographs in the immediate vicinity of the shoreline. Outbuildings and others not to be compiled were deleted with green ink.

The cable crossing areas were noted on the photos.

A new Railroad swing bridge has been constructed over the tentrance to the Swinomish Slough by the Great Northern Railway. This bridge was constructed since the photos were taken and is in the same general area as the bridge shown on the photo but is longer than the old bridge. New vertical and horizontal clearances were noted on photograph No. 36569 along with the position and length of the new swing span.

Clearances were measured and noted on photograph No. 36569 for the vertical lift highway bridge over the mouth of the Swinomish Shough. Channel (sec Goog. Names)

13. Geographic Names:

Not applicable.

14. Special Reports and Supplimental Data:

Single copies only of recovery notes for Triangulation and Topographic Stations were prepared. No recovery cards were submitted for the Bench Marks as these were only spotted on the photographs as an aid in finding them at a later date. The descriptions of the B.M.'s were checked for errors or changes but since most of these were written in 1952 no changes or additions were found necessary.

Approved and forwarded:

Respectfully submitted:

William R. Kachel

Fred Natella Comdr., USC&GS Chief of Party William R. Kachel Lt. (j.g.), USC&GS

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscripts No. T-11228 thru T-11231

Project Ph-98

21. Area Covered:

This radial plot embraces an area in the vicinity of Anacortes, Washington between latitudes 48° 28' 15" to 48° 33' 45" and between longitudes 122° 30' to 122° 45'. It covers the shorelines and adjacent planimetry within the neat lines of map manuscripts T-11228 thru T-11231.

Nine lens photographs taken in May 1952 were used. Corrections to radials for paper distortion and transforming errors were made by use of Master Templet No. 36269 during the process of drawing the templets. The templets were oriented directly on the four map manuscripts which had been joined together by matching neat lines and then fastened with cellophane tape.

No difficulties were encountered in orienting the templets to the identified horizontal control stations and in the final radial plot result good intersections of radials were obtained.

The assembled plot was turned face down and the locations of photogrammetric points were pricked and circled on the reverse sides of the four map manuscripts.

23. Adequacy of Control:

An adequate number of horizontal control stations was identified by the field inspection party and these were transferred to the office photographs without difficulty.

24. Supplemental data:

There was no supplemental data.

25. Photography:

The photography was adequate for the compilation of shoreline map manuscripts and the required planimetry for the city of Anacortes, Washington.

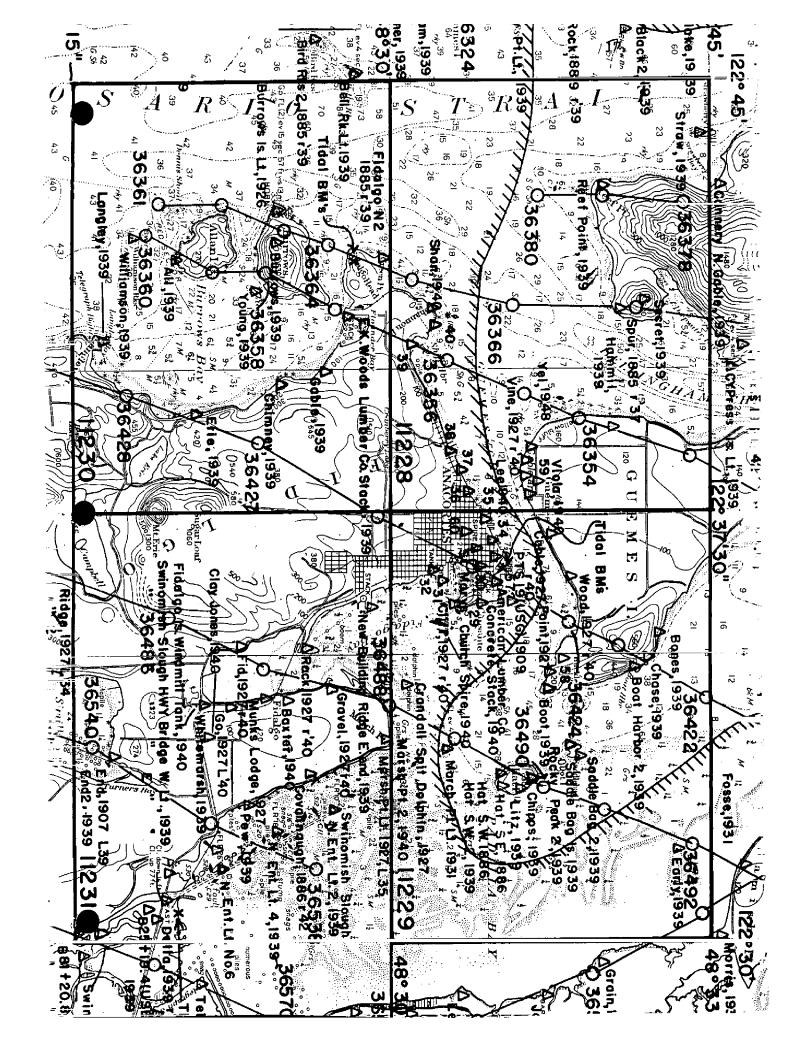
Approved and forwarded:

Fred Natella

Comdr., USC&G Survey Officer-in-Charge Respectfully submitted:

J. Edward Deal, Jr.

Cartographer



Photogrammetry	B
•	

STATION	MAP T-11228		PROJE	PROJECT NO	Ph-98	တ္တ	SCALE OF MAP 1:10,000	0000	SCALE FACTOR.	JR None
1339 0 5455 N.A. 148 33 41,408 1279.0 (574.3) 1339 2,666 1927 122 46 09,212 203.2 (1027.0) 1339 2,666 1,22 40 01,090 22.3 (1207.8) 1339 2,665 1,8 32 38,996 22.3 (1207.8) 1330 2,665 1,8 32 38,996 22.3 (1207.8) 1330 2,665 1,8 30 1,9224 22.3 (1169.1) 1330 2,665 1,8 32 32,477 321.1 (909.6) 1439 2,665 1,8 32 35,477 321.1 (909.6) 1439 2,665 1,8 32 35,477 322.6 (97.9) 1439 2,665 1,8 32 35,577 32.1 (101.1) 1439 2,665 1,8 32 35,577 32.2 (16.1) 1439 2,665 1,8 32 35,577 32.2 (16.1) 1439 2,665 1,8 32 35,577 32.2 (16.1) 1439 2,665 1,8 32 35,577 32.2 (16.1) 1439 2,665 1,8 31 35,527 32.2 (16.1) 1440 2,665 1,8 31 35,522 32.2 (16.1) 1440 2,665 1,8 31 35,522 32.2 (16.1) 1440 2,665 1,8 31 35,522 32.2 (16.1) 1440 2,665 1,8 31 35,522 32.2 (16.1) 1440 2,665 1,8 31 35,522 32.2 (16.1) 1440 2,665 1,8 31 35,522 32.2 (16.1) 1440 2,665 1,8 31 35,522 32.2 (16.1) 1440 2,665 1,8 31 35,522 32.2 (16.1) 1440 2,665 1,8 31 35,522 32.2 (16.1) 1440 2,665 1,8 31 35,522 32.2 (16.1) 1440 3,665 1,8 3,665	STATION	SOURCE OF INFORMATION (INDEX)		LATITU	IDE OR V-C	OORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK)
1939 p.666 " 122 46 09.912 2 203.2 (1027.0) 1939 p.668 " 122 40 01.090 2 2 2 3 18.71		G 5455	N.A.	877	33	41.408			~	West of T-11228
1939 G 5665 H	BLAKE, 1939	909*0	1927	122	94	09,912			C	
1939 9,668 122 40 01,090	Cypress Island	G 5605		84	33	58,959	record to hald			North of T-1122
1939 G 5605 I.	Light, 1939	999°d	=	122	01	01.090			크	
1939 1, 10, 10, 10, 10, 10, 10, 10, 10, 10,		G 5605		84	32	38,996	v v			
940 G 5665 48 30 49.924 . 1542.1 (311.2) 13W 1939 G 5455 48 32 27.87h 861.0 (992.3) 1493 9,666 122 43 15,653 1837.2 (16.1) 1493 9,665 1 122 41 13.292 27.87h 1940 9,772 1 122 41 13.292 113.292 16.1) 1940 9,465 48 30 33.241 7.712 102.8 (826.5) 1940 9,465 48 30 33.241 7.712 1122.4 (10.1) 1939 9,465 48 32 36,570 1122.6 (1084.8) 1122.4 (103.1) 1940 0.5465 48 31 36,531 1122.4 (103.4) 1122.4 (103.4) 1940 0.5665 48 31 36,531 71,43.9 1122.4) 1940 0.5665 48 31 36,531 71,43.9 1122.4) 1940 0.5665 <t< td=""><td></td><td>599°d</td><td>2</td><td>122</td><td>39</td><td>08,778</td><td></td><td></td><td></td><td></td></t<>		599°d	2	122	39	08,778				
940 P. 712 38 03.034 62.3 (1169.1) 1187 122 38 03.034 861.0 (992.3) 1187 122 43 15.653 321.1 (999.4) 1189 126 43 15.653 1837.2 (16.1) 140 122 41 13.292 16.10 240 122 41 13.292 16.10 340 122 41 13.292 16.10 340 122 40 55.074 1123.4 (101.1) 885 122 40 55.074 1123.4 (101.1) 1939 6 5665 48 32 36.570 1122.6 (101.1) 1939 122 41 06.255 1145.9 (102.0) 1939 122 44 06.255 1102.0 1940 122 44 06.255 1102.0 1940 122 44 06.255 1102.0 1940 122 44 06.255 122.4 <		G 5665		84	30	49.924	ī		1542,1 (311,2)	
1939 6 545 48 32 27.874 861.0 (992.3) 1122 4.3 15.653 122 4.3 15.653 122 2.7.874 1837.2 (16.1) 16.1 1		P,712	=	122	38	03,034			(1.6911) (2.79)	
1939 p.606 122 43 15,653 1837.2 (16.1) 1939 p.665 48 32 59,477 1837.2 (16.1) 940 p. 712 41 13,292 272.6 (957.9) 940 p. 712 40 55.074 133.24 1026.8 (826.5) 940 p. 712 40 55.074 1130.4 1130.4 (101.1) 1940 0. 712 41 07.112 . . 1129.6 (723.7) 927 6 5665 48 31 35.917 . . 1130.4 (74.3.9) 927 6 5665 48 31 35.917 . . 1129.6 (724.9) 927 0. 5665 48 31 36.531 . . 122.4 . 1940 0. 712 122 38 33.405 . 122.7 . . . 1940 p. 712 18 31		G 5455		87	32	27.874			`	
999 G 5605 48 32 59,477 1837.2 (16.1) 940 G 5665 48 30 33,247 7 1026.8 (826.5) 940 p. 712 48 30 33,241 1026.8 (826.5) 1026.8 (826.5) 885 p. 712 48 32 36,570 " " 1130.4 (101.1) 7 1939 p. 606 48 32 35,217 " 1129.6 (723.7) 1122.0 14 16 31 36,531 " 1126.4 (101.1) 1126.9 1126.3 (102.0) 1126.4 (723.7) 1126.4 (723.7) 1126.4 (723.7) 1126.4 (723.7) 1126.4 (723.7) 1126.3 (1102.0	REEF POINT 1939	909°d		122	43	15,653				
1939 p.665 " 122 41 13,292 272.6 (957.9) 940 p. 712 48 30 33,241 1026,8 (826.5) 885 p. 712 48 32 36,570 " 1130.4 (101.1) 1939 6 5455 48 33 35,217 " 1129.6 (723.7) 1939 6 5465 48 31 36,531 " 1128.4 (724.9) 927 6 5665 48 31 36,531 " 128.3 (1102.0) 927 6 5665 48 31 36,531 " 685.4 (724.9) 1940 6-5665 48 31 36,531 " 128.4 (724.9) 1940 6-5665 48 31 36,531 " 685.4 (726.1) 1940 6-5665 48 31 35,522 122,43 122,43 1940 6-5665 48 24,919 24,919 212,3 (1102.0)		5095 5		87	32	59.477			`	
940 G 5665 48 30 33,24,1 1026,8 (826,5) 885 9,712 48 32 36,570 " 1130,4 (101,1) 1939 6 5655 48 32 36,570 " 1122,6 (723,7) 1939 6 5455 48 33 35,917 " 1109,4 (743,9) 927 6 5665 48 31 36,531 " 1128,4 (743,9) 1940 6-5665 48 31 36,531 " 685,4 (745,7) 1940 6-5665 48 31 35,522 1097,2 (756,1) 1940 6-5665 48 31 35,522 1097,2 (756,1) 1940 9,712 38 24,919 511,3 (719,8)	- 1	p.665	=	122	17	13,292			-	
9440 p. 712 " 152 40 55,074 " 1130-4 (101,1) " 885 G 5665 " 48 32 36,570 " 1159-6 (723,7) " 1939 P. 606 " 122 44 06,255 " 1109-4 (743,9) 927 P. 715 " 48 31 36,531 " 128,1 (724,9) 1940 G-5665 " 48 31 35,522 1097.2 756,1) 1940 G-5665 " 48 31 35,522 1097.2 756,1) 1940 P. 712 122 38 24,919 511.3 719,8)		G 5665		84	30	33,241			`	
685 48 32 36,570 " " 1129,6 (723,7) 1939 6 5455 48 33 35,917 " 1109,4 (743,9) 927 6 5665 48 31 36,531 " 128,3 (1102,0) 1940 6-5665 48 31 35,522 1097,2 (756,1) 1940 6-5665 48 31 35,522 1097,2 (756,1) 1940 6-7665 48 31 35,522 1097,2 (756,1)	SHAN, 1940	p. 712	=	122	07	55.074		ī		,
667 p. 712 48 33 35,917 " 115.9 (1084.8) 1939 p. 606 122 44 06,255 128.3 (1102.0) 927 p. 715 48 31 36,531 1128.4 (724.9) 1940 G-5665 48 31 35,522 1097.2 (756.1) 1940 p. 712 38 24,919 1097.2 (756.1) 1940 p. 712 38 24,919 119.8	dirds	G 5665	:	84	32	36,570	, 19			
1939 G 5455 " 48 33 35,917 " " 1109,4 (743,9) 927 p. 666 48 31 36,531 1128,4 (724,9) 927 p. 715 48 31 36,531 685,4 (724,9) 1940 G-5665 48 31 35,522 1097,2 756,1) 1940 p. 712 38 24,919 511,3 719,8)	orun, 1002	p. 712	=	122	177	07,112				
1940 G-5665 " 48 31 35.522 128.3 (1102.0) 1940 G-5665 " 48 31 35.522 1097.2 (756.1)	COOL SEADER	G 5455	:	84	33	35,917				
1927 G 5665 " 48 31 36.531 1128.4 (724.9) 19.715 " 122 38 33.405 685.4 (545.7) 1940 p. 712 38 24.919 511.3 (719.8)	SIRAW, 1939	909 •	=	122	1717	06.255				
1940 G-5665 " 48 31 35,522 685,4 (545,7) 1940 p. 712 38 24,919 511,3 (719,8)	VINE 1000	G 5665		87	3	36,531			l	
G-5665 " 48 31 35.522 1097.2 (ואלד פינוחוד י	p. 715	=	122	38	33,405				18.
p. 712 122 38 24.919 511.3 (מיסני אַ זַּחַלַעַ	G-5665		977	3	35,522			•	
	TOTAL TATO		= [122	38	24,919			\ 	
				A) E	DA1E		CHECKED BY: 0 + D + D + D +	, T	DATE 21	47.74

Photogrammetry

5

Pg. 1 of 3

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS M · 2388 - 12 (BACK) 19 FORWARD None SCALE FACTOR FROM GRID OR PROJECTION LINE IN METERS 252.0) 435.5 (1417.8) 353.3 (877.9) 1108,4 (744,9) 860.4) (4.7.4) (1817,7)145.8) (BACK) 955.4) 392.9) (1426.5)626.7) 447.8) 955.9) 573.9 (1279.4) 168.1) 877.7) 522,2) (267.2)(1.01/2) 455,8 1193,6 (37,6) (116,7) (1402.4)N.A. 1927 - DATUM DISTANCE 897.9 35.7 FORWARD 775.4 1085.5 450.9 1685,2 837.7 426.B 275.2 991.3 ויועצ 58411 603.7 1601,3 1405.5 353,3 1114,3 1586.1 1331,1 DATUM SCALE OF MAP 1:10,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET, (BACK) FORWARD 01,154 14,100 17.216 18.079 29,068 28.458 40,843 13,818 51,842 1,3,093 LONGITUDE OR x-COORDINATE 35.883 52.893 54.557 51,350 14,598 58.168 54,313 29,441 48,302 37,786 18,580 17,221 LATITUDE OR y. COORDINATE MAP T. 11229 PROJECT NO Ph-98 32 炽 9 S 3 36 36 36 얾 34 33 33 37 32 8 3 3 34 El El 썱 젊 33 줘 띪 84 8 84 221 122 87 122 122 84 122 87 122 48 122 84 8 122 8 122 9 84 122 122 122 DATUM N.A. 1927 = = = = = = = = = = = SOURCE OF 716 5665 717 p, 716 p. 716 p. 669 713 G 5665 p. 663 p. 716 5665 7176 5665 699 G 5665 Anacortes, St. Mary sG 5665 6-5605 G 5605 G 5665 G 5665 G 5605 G 5665 715 7 (INDEX) 4 Ġ þ ¢ Ġ ۵ Concrete Stack, 1940 Anacortes, Morrison Will Co., Elevated Anacortes, American Anacortes, Morrison Church, Spire, 1940 BOAT HARBOR 2,1939 HAT SOUTHEAST, 1886 HAT SOUTHWEST, 1939 1, 1927 Brick Stack, 1940 Steel Tank, 1940 umber & Box Co. BONES, 1939 BOAT, 1939 Mill Company, STATION CHIPS, 1939 CLIFF, 1927 CABLE R.M.

DATE 1/25/54

CHECKED BY: J.E.D.

4

DATE 2/5/54

Photogrammetry

of 3 N Pg.

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS (BACK) 20 None FORWARD SCALE FACTOR DISTANCE FROM GRID OR PROJECTION LINE 0,8) 82,5) 329,3) 82.7) 1388.9 (464.4) 970.6) (9.889 549-2) 841.0) 40.5 (1812.8) 471.9 (759.8) 1207.4 (645.9) 448.4 (783.0) 524.1 (706.9) 230,3 (1623,0) (665.4) (1419.5)987,0) (1355.3)(101.9)497,2 (1541.5)(1721.4)(1340.1)N.A. 1927 - DATUM IN METERS 565.5 733.9 FORWARD 1770.6 311.8 260,2 1148,7 513.2 90a.9 433.8 680.5 1012,3 1230,1 0.864 131.9 542.7 1751.4 243.8 CORRECTION SCALE OF MAP 1:10,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) FORWARD 12,686 21,848 26a446 01,312 22,986 59,962 14,044 55.978 16,615 43,952 04.270 56.700 33,203 35,766 39,090 57,322 44,963 25.547 27,566 10,096 16,122 32,771 07.457 11,887 LONGITUDE OR x-COORDINATE LATITUDE OR y-COORDINATE PROJECT NO. Ph-98 36 37 36 껆 8 33 8 33 37 34 33 2 33 S 33 35 阳 3 겂 점 31 R 8 84 84 87 122 84 122 81 122 84 122 9 122 122 122 87 8 122 122 122 8 122 122 87 DATUM N.A. 1927 = = = Ξ . = = = = = = SOURCE OF p. 663 G 5605 5665 712 G 5665 699 713 713 p. 662 699 °a G 5605 G 5665 p. 715 G 5605 G 5665 G 5665 G 5605 G 5605 p. 713 p. 713 G 5665 p. 663 Field Comp. (NDEX) å ტ MARCH POINT 2,1939 1939 SADDLE BAG 2, 1939 TIDE POINT, 1886 MAP T. 11229 O'BRIEN, 1886 લ 1939 ISLAND, 1939 STATION Light, 1950 March Point POINT, 1927 1940 ROCKY PEAK WARE, 1940 SADDLE BAG LITZ, 1939 ς, HUMP, JACK

COMPUTED BY: W.R.K. 1 FT. = 3048006 METER

DATE

1/26/54

J.E.D. CHECKED BY:....

DATE 2/5/54

Pg. 3.of 3

M-2388-12 DISTANCE FACTOR DISTANCE FROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS North of T-11229 (BACK) 21 None FORWARD SCALE FACTOR 28.6) (1800.6)(548.8) (599.7) (BACK) N.A. 1927-DATUM 631.2 1824.8 FORWARD 64629 52.7 DATUM SCALE OF MAP 1:10,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET, (BACK) FORWARD MAP T. 1229 PROJECT NO. Ph-98 33,173 01,706 30,766 59.075 LONGITUDE OR x-COORDINATE LATITUDE OR V-COORDINATE 36 32 33 8 87 122 87 122 DATUM N. A. p. 668 1927 = SOURCE OF INFORMATION (INDEX) G :5605 D. 713 G 5665 COMPUTED BY. W.R.K. 1 FT.=.3048006 METER William Point STATION Light, 1939 WOOD, 1927

Photogrammetry 7

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2/5/54 DATE....

1/26/54

DATE

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pg. l of 2

MAP T. 11230		PROJECT NO. Ph-98	ON TO	Ph-98		SCALE OF MAP 1:10,000	000 0	SCALE FACTOR	R None
	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUE	LATITUDE OR y-COORD	LATITUDE OR V-COORDINATE ONGITUDE OR X-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
	G 5455	N.A.	847	27	30,74			949,5 (903,8)	•
	609 °a	1927	122	17	53.38			1096,7 (136,0)	
	G 5455	1	84	29	35,366			1092,4 (760.9)	
\dashv	p. 610	=	122	45	05,087			10% (1127.5)	
4 4 F	ŗ	=	847	53	05.928			183.1 (1670.2)	
`	p. 605		122	4.5	40.312			827,8 (404,3)	
	G 5678		84	77	30,547			943.5 (909.8)	
\neg	p. 727		122	38	37,041			761,7 (472,2)	
	G 5455	=	84	28	38,802			1198.6 (654.7)	
一	D. 605		122	42	12,142	,		249.3 (982.9)	`
	G 5455		87	28	41,197		ĺ	1272.5 (580.8)	
	p. 610	:	122	42	44,175			907.2 (325.0)	
	G 5455	=	877	88	42.47	,		1311.9 (541.4)	
\neg	D. 610		122	39	47.61			977.8 (254.4)	
K. Woods Lumber	G 5455	E	84	53	30.716			948.8 (904.5)	
1939	609 °d		122	04	55,632		Î	1142.2 (89.7)	
	G 5455		84	27	43.317			1338.0 (515.3)	
	p. 608	:	122	39	19,036			391,1 (841,5)	
700	G 5455	=	84	53	56,079			1732,2 (121,13	
	Do 605		122	42	800.00			0,2 (1231.5)	
	G-5455	=	84	56	37,761			1166.4 (686.9)	
7	p. 608		122	077	33,756			693.8 (539.3)	
WITTIAMSON 1030	G 5455	=	87	36	58.673			1812,3 (41,0)	
\Box	p. 608		122	42	15.740			323.4 (41.0)	22
74	1 FT. = 3048006 METER COMPUTED BY. W.R.K.	V O	DATE 14	1/26/54		CHECKED BY: JAED.	E.D.	DATE 2/5/54	***************************************

Photogrammetry

N.A. 1927 - DATUM

BISTANCE
FROM GRID OR PROJECTION LINE
FROM GRID OR PROJECTION LINE
IN METERS 23 ×2.888:12 (BACK) FORWARD SCALE FACTOR None DATE 2/5/54 (923.0) 922,5) (BACK) 930,3 309.8 FORWARD DATUM SCALE OF MAP 1:10,000 J.E.D. DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS (BACK) CHECKED BY FORWARD 30,119 15,084 LONGITUDE OR x-COORDINATE LATITUDE OR y-COORDINATE 1/26/54 MAP T. 11230 PROJECT NO. Ph-98 28 4 87 122 DATE DATUM N.A. 1927 SOURCE OF INFORMATION (INDEX) p. 608 G 5455 COMPUTED BYMARAK.A. 1 FT. - . 3048006 METER STATION YOUNG, 1939

Pg. 1 of 2

TOR None	FACTOR DISTANCE INE FROM GRID OR PROJECTION LIN IN METERS () FORWARD (BACK)	D) East of T-11231	2)	17	6)	(6	2)	3)	5)	7)	9)	2)	(2)	6) South of I-11231	2)	5)	2)	7.	(1)	3)	2)	2)	7)	(5	24	M-2388-12
SCALE FACTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	1011.3 (842.0)	1108,7 (123.2)	275.2 (1578,1)	1005,2 (226,9)	1732,3 (121.0)	964.5 (268.0)	551.5 (1301.8)	572,3 (660,5)	1351.6 (501.7)	250,1 (982,9)	470,1 (1383,2)	100,2 (1132,2)	118,7 (1734,6)	767.1 (466.2)	499.7 (1353.6)	743.8 (488.2)	780.6 (1072.7)	569.9 (662.4)	1699.0 (154.3)	127.1 (1105.0)	1051.1 (802.2)	342,4 (890,7)	631.7 (1221.6)	964.4 (268.4)	DATE 2/8/54
1:10,000	DATUM S CORRECTION																									٦. تا.
SCALE OF MAP	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)						-																			
60	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	32,741	53,998	08,910	48,953	56,083	46.955	17.856	27,854	43,759	12,172	15,220	04.877	03.843	37.320	16,178	36,222	25.271	27,746	55,005	06.190	34,030	16,660	20,450	46.936	/51,
PROJECT NO. Ph-98	TUDE OR V	29	88	59	32	27	34	27	30	56	33	58	35	26	34	29	34	28	32	28	35	56	30	27	30	1/26/51.
ECT NO		84	122	87	122	84	122	87	122	84	122	84	122	847	122	84	122	87	122	84	122	84	122	84	122	DATE
PROJ	DATUM	N.A.	1927	=		=		=		.		=		=		=		=		.		=		th _i		: !
	SOURCE OF INFORMATION (INDEX)	G 5605	D. 663	G 5605	p. 663	G 5665	p. 714	G 5605	p. 663	G 5678	p. 729	G 5665	Do 714	G 5678	D. 729	G 5665	p. 714	unknown	p. 673	G 5665	p. 714	unknown	Da 675	wy. unkn	39p.675	, K
MAP T. 11231	STATION	BAYVTEW 1939	/// 6	CAVANAUGH, 1886		CLAY JONES 1940		PELL 8 1020	1771 (Viene)	FAM C 1030	ווון לאלקשיים	FID. 1927		GTB. 1907		GRAVEL, 1927		PEW, 1939		BOCK 1927	12/= function	Swinomish Slough	Beacon No.16,1939	Swinomish Slough, Hwy. unknown	Bridge, East Lt., 1939p. 675	1 FT. = .3048006 METER COMPLITED BY. W. P. K.

Photogrammetry

pg. 2 of 2

MAP T. 11231		PROJECT NO	CT NO.	Ph-98	89	SCALE OF MAP 1:10,000	10,000	SCALE FACTOR)R none
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUI	DE OR y-C	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LIN IN METERS FORWARD (BACK)
Swinomish Slough,	uriknown	N.A.	817	27	20,761	-		(1212,0)	
West Light, 1939	p. 675	1927	122	30	48,658			999,8 (233,0)	
Swinomish Shough North Entrance	Field	=	87	88	18,697				
Light 10, 1950	Comp	:	122	32	17,189				
Swinomish Slough North Entrance	Field		84	, 88	39.554				
Light 18, 1950	Comp		122	31	46,775			960.6 (271.6)	į
Swinomish Slough North Entrance	Field	=	84	28	02,898				
Light 26, 1950	Comp	2	122	31	17,389			357.2 (875.3)	
LITTORY DOT	unknown	=	847	27	54,210				
UCUFAT TUM	p.673	:	122	31	47,728				
WHITTNEY, 1939	unknown	=	84	, %	55,589			1	East of T-11231
	p. 671		122	28	21,557			(6,687) 0,544	
					•				
,									
,									
		•							
			,				·		
		-							25•
1 FT.= 3048006 METER COMPUTED BY. W.R.K.	Ж	Va	DATE 1/26/54	726/54	***************************************	CHECKED BY: J.E.D.	D.	DATE 2/8/54	м.2388-12

COMPILATION REPORT

Map Manuscripts No. T-11228 thru T-11231

Project Ph-98

31. Delineation:

Graphic methods were used for the compilation of these map manuscripts.

In the city of Anacortes all streets have been compiled. All buildings along the waterfront have been detailed and in the interior of the city only public buildings have been shown. Planimetry throughout the remaining areas of the map manuscripts consists of a narrow strip of land adjacent to the mean high-water line and alongshore features.

The field inspection was satisfactory and the map manuscripts are believed to be complete shoreline surveys.

32. Control:

The horizontal control stations were adequate both as to identification and density.

33. Supplemental data:

Sextant fix locations were furnished by the field inspection party for numerous dolphins and piling. These were plotted on the map manuscripts according to data entered on the reverse side of several field inspection photographs.

34. Contours and Drainage:

Contours are not applicable. Drainage was shown as indicated by field inspection. Existing topographic maps of the area do not show any additional drainage.

35. Shoreline and Alongshore Details:

The location of the mean high-water line was satisfactorily indicated by field inspection. By stereoscopic examination a refinement of the field determined location was drawn on the office

photographs and then compiled. The line could be clearly seen because the photographs were taken at about mean lower low-water.

The alongshore features which bare at low-water were clearly visible on the photographs and they have been compiled. The low-water line shown at the offshore limits of mud or sand flats has been shown as an approximate low-water line but it should be quite accurate if the predicted tide at the time of photography was affirmed.

Rocks were thoroughly field inspected and appropriate data furnished to refer them to the proper vertical datum. Computation and verification of this data was made at the compilation office and entered on the map manuscripts.

36. Offshore Details:

There are no offshore features.

37. Landmarks and Aids:

Forms 567 have been submitted for landmarks and aids falling within these four map manuscripts.

38. Control for Future Surveys:

Forms 524 are submitted for eleven recoverable topographic stations listed under item 49.

39. Junctions:

Complete and satisfactory junctions have been made between these four map manuscripts.

40. Horizontal and Vertical Accuracy:

There are no areas on these map manuscripts that are considered to be of sub-normal horizontal accuracy.

41. Compliance With Paragraph 11 of Instructions:

These map manuscripts are being forwarded to the Washington Office because it is believed that changed conditions and assignments have voided the shipping requirements contained in Paragraph 11 of the instructions.

46. Comparison With Existing Maps

A visual comparison was made with the following:

U.S.G.S. 15 min. quadrangle, ANACORTES, WASHINGTON, Scale 1:62,500, edition of 1943.
U.S.G.S. 15 min. quadrangle, DECEPTION PASS, WASHINGTON, Scale 1:62,500, edition 1951.

47. Comparison With Nautical Charts:

Comaprison was made with Nautical Charts as follows:

No. 6376, Scale 1:25,000, edition of May 1945, corrected 4/14/52
No. 6378, Scale 1:40,000, edition of June 1935, corrected 5/5/52

"Items to be Applied to Nautical Charts Immediately"

None

"Items to be Carried Forward"

None.

48. Geographic Names:

The geographic names shown on these four map manuscripts were obtained from the two nautical charts listed under Item 47.

Approved and Forwarded:

Fred Natella

Comdr., USC&G Survey Officer-in-Charge Respectfully submitted:

J. Edward Deal, Jr.

Cartographer

49. Notes for the Hydrographer:

Forms 524, "Recoverable Topographic Station" are submitted for the following:

Area of Map Manuscript T-11228

TANK, 1953 STACK, 1953

Area of Map Manuscript T-11229

CAPSANTE RANGE FRONT LIGHT, 1953 CAPSANTE RANGE REAR LIGHT, 1953

Area of Map Manuscript T-11231

U.S.E. B 53/03.6, 1939 SWIT, 1939 SPARK, 1939 RAM, 1939 PONT, 1939 NOR, 1939 GRET, 1939

There are two landmarks listed on Form 567 for which Forms 524 are not submitted. These are of photo-hydro station accuracy and are shown on T-11231. They are:

STACK, Anacortes Plywood Co., black steel stack, easterly of two.

STACK, Anacortes Plywood Co., black steel stack, westerly of two.

Review Report T-11228 thru T-11231 Shoreline Maps February, 1955

61. General:

The reference datum for rocks was changed in many instances during review, because the mean range of tide value (4.8 ft.) seems to have been used rather than the MHW level (7.4 ft. for sub-station Anacortes). The date, hour, and rock elevation had been recorded by the inspector and this information was used to reference the rocks to MLLW in most cases.

62. Comparison with Registered Surveys:

			<u> Manuscripts</u>
T-462	1:10,000	1854	T-11228
T-1667	ti .	1885	T-11230
T-1746	ti	1886	T-11228, T-11229, T-11231
T-1746a	tī	1913	ft 11 H
T-1747	ń	1 <i>8</i> 86	T-11231
T-1748	u	' 11	T-11228
T-2111	1:4,800	1892	T-1123 1
T-2112	Ü	II	T-11228, T-11229
T-2113	lt .	n	T-11228, T-11230
T-4317	1:5,000	1927	T-11228, T-11230
T-4318	it	B†	T-11229, T-11231
T-4319	tl	11	T-11231
T-6690	tt	193 9	T-11231
T-6692	n	11	T-11231
T-6736	1:10,000	1940	T-11230
T-6802	n T	1939-40	T-11228, T-11230

Differences in MHWL between the previous surveys and the manuscripts are not great because these islands have rock shores with few sand and gravel beaches subject to wave action. However, there are numerous cultural changes and a greater amount of off-shore information on the new surveys, so that, except for contours and the bluff symbol on the north shore of Fidalgo Island, the maps in this project supersede the older surveys for charting purposes.

63. Comparison with Maps of Other Agencies:

USGS Anacortes, Washington 1:62,500 1951 USGS Deception Pass, Washington 1:62,500 1951

So far as difference in scale permits comparison, there seems reasonable agreement between the quadrangles and the manuscripts.

64. Comparison with Contemporary Hydrographic Surveys:

Except for Field Examination No. 4, 1953, north of March Point (T-11229) 48° 30.25'-30.6'/122° 33.5'-34.2', H-4738, 1927 is the most recent survey.

Comparison with Nautical Charts:

6376 ed. May 1945, corr. January 1947 1:25,000 ed. June 1935, corr. September 1949 6378 1:40,000

Differences between the charts and the manuscripts are, for the most part, due to cultural changes, piling and dolphin additions or deletions, and greater rock information along-shore on the manuscripts.

Notes to the Hydrographer, accompanying this report, lists items which need clarification or proof.

66. Accuracy:

These maps comply with project instructions and meet the National Standards of Accuracy.

Reviewed by:

APPROVED:

Photogrammetry Division

Photogrammetry Division

Chief, Nautical Chart Branch Charts Division

Chief, Coastal Surveys Division

Summary to Accompany T-11228 thru T-11231

Instructions for Ph-98 were issued 13 July 1953 for photogrammetric field surveys and graphic control surveys in the vicinity of Anacortes, Washington, in support of hydrographic surveys under project CS-241, San Juan, Archipelago and Georgia Strait.

The four 1:10,000-scale shoreline surveys in this project lie between latitude 48° 26½1-33-3/41, longitude 122° 301-451. Field inspection consisted of location of shoreline, near-shore rocks, piling and dolphins; and along-shore culture.

No hydrography was accomplished in the area included in Ph-98, except for a small area north of March Point (48° 30.25'-30.6'/ 122° 33.5'-34.2'). This survey is attached to its descriptive report and is filed under FE No. 4, 1953. Hydrographic work is to be resumed in 1955.

No new control was established in the area, except six recoverable topographic stations located by radial plot. These are listed in Section 49 of the Compilation Report.

After final review, a cloth-mounted copy of each map and the original Review Report will be registered and filed in the map Archives.

Notes for the Hydrographer

T-11228:

"City of Seattle Rocks" were not searched for by the 1953 field party.

- 4 Dolphins and a pile charted in Ship Harbor were not noted by the field inspector, nor were they visible on photo 36356, etc.
- 2 Rocks south of Reef Point labeled "awash MLLW" on the manuscript appear to be only two of several prominences on a probable sunken ledge, upon which kelp grows. The notation "awash MLLW" was retained during review because the rocks were visible on photographs taken at -1.9-ft. tide but they were not visible when inspection was made at 12:55, October 5, 1953, at 5.3-ft. tide.

Triangulation station Ship Harbor, 1887, r. 1939, is charted as a bare rock islet, but 1953 field inspection says it is 6 feet above MLLW (MHW Anacortes = 7.4 feet). The 1939 recovery note says it is "6 feet above the mean level of low water", which probably corroborates the 1953 information.

T-11229:

Rocks referred to High Tide by the field inspector have been changed to islets and referenced to H.W. on the manuscript because this inspector referred to other rocks in the immediate vicinity to MHW, indicating that there was a clear distinction in terms. In no case was an elevation given, so that it was not possible to translate them to MHW terms. Hydrography may be able to supply these elevations during the 1955 season.

The approximate LIWL added to the manuscript in the Capsante area is from photo 36425 which was taken at about -2.4-ft. tide.

T-11230 and T-11231:

Sections of chart 6373, with copy of notes made by the field inspector in 1953, are attached.

Geographic Names:

T-11228

- Rosario Strait
- Strawberry Island
- Strawberry Bay
- Cypress Island
- Reef Point
- Secret Harbor
- ✓ Deepwater Bay
- ~ Bellingham Channel
- ✓ Yellow Bluff
- " Guemes Island
- √ Guemes Channel
- ✓ Anacortes
- Fidalgo Island
- / Ship Harbor
- Bhannon Point
- ✓ Sunset Beach
- Great Northern Railway

Names approved 2-8-55 $L_{\bullet}H_{\Theta}ck$

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Geographic Names:
                          T-11229
√ Padilla Bay
March Point

✓ Hat Island

✓ Dot Island

✓ Saddlebag Island

✓ Huckleberry Island

√ Guemes Island

√ Boat Harbor
                   (this is a very old name, on earliest survey sheet.
                     USGS quad has Square Harybor, but use approved name
√ Guemes:
                     pending BGN action)
√ Guemes Channel
  Anacortes
Capsante
              ( a section of Anacortes)
  depeccapae
Capsante Waterway
✓ Fidalgo Bay
  Fidalgo Island
 Great Nrthern Railway
Anacortes G.School
v Anacortes High School
                                              Names approved 2-8-55

✓ Columbian Jr. High School

                                                   L. Heck
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/ Wash. No. 1

T-11230

Fidalgo Island

Rosario Strait

Telegraphe Bight

Langley Point

Langley Bay

Burrows Bay

Alexander Beach

Flounder Bay

Geen Point

Washington Park

Fidalgo Head

Short Bay

Burrows Island

Young Island

Allan Island

Williamson Rocks

Great N rthern Railway

Names approved 2-8-55. L.Heck. Geographic Names:

T-11231.

- √ Swinomish Channel (BGN decision in 1954 over Slough)
- √ Padilla Bay
- ✓ Whitmersh Junction
- / Fidalgo Island
- √ March Point
- √ Fidalgo Bay
- Crandall Spit
- ✓ Weaverling Spit
- √ Fidalgo
- ✓ Deans Corner
- √ Anacortes
- √ S.S. Church of Christ
- / Pilgrim Cong'l Church
- Similk Bay
- V Similk Beach
- Turners Bay
- ✓ Great Northern Railway
- ✓ Wash. No. 1 (highway)

Names approved 2-8-55 L.Heck DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Form 567 April 1945

PHOTOGRAMMETRIC REVIEW SECTION

Jamary 1954

NONFLOATING AIDS UNITARINATION FOR CHARTS

I recommend that the following objects which trace not) been inspected from seaward to determine their value as landmarks be Portland, Oregon STRIKE OUT ONE TO BE CHARTED TOMESTIC STREET

W. Glover The positions given have been checked after listing by charted on xistocacconact the charts indicated.

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	WAShirty tors		LAT	LATITUDE *	LONG	LONGITUDE *		LOCATION	DATE OF	IS 3E	CHARTS	8T3
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LIGHT	March Point Light, 1939 Fr1950	7-11234	08 30	39.090	122 33	21.848	N.A. 1927	Triang-	1939		6376	9 0
	Swinomish Slough North Entrance	1 1	İ	18,697		17:189		Triang-		<u> </u>	6376	
LIGHT	Light 10 (Light 2, 1939), 1950	7-11 231	62 84	577.5	122 32	353.0		ulation	1939		6380	Ġ
	Swinomish Slough Worth Entrance	•		•		46.775		Triang-			6376	_
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M-2836-3 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.

* TABULATE SECONDS AND METERS

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

NOOMEROAMINGTANDEROR LANDMARKS FOR CHARTS

STRIKE OUT ONE TO BE CHARTED MONTHER DECIDENCE OF

Form 567 April 1945

Portland, Oregon

1954 Jamary

I recommend that the following objects which the most (have not) been inspected from seaward to determine their value as landmarks be charted on fairbrackant the charts indicated.

The positions given have been checked after listing by W. Glover

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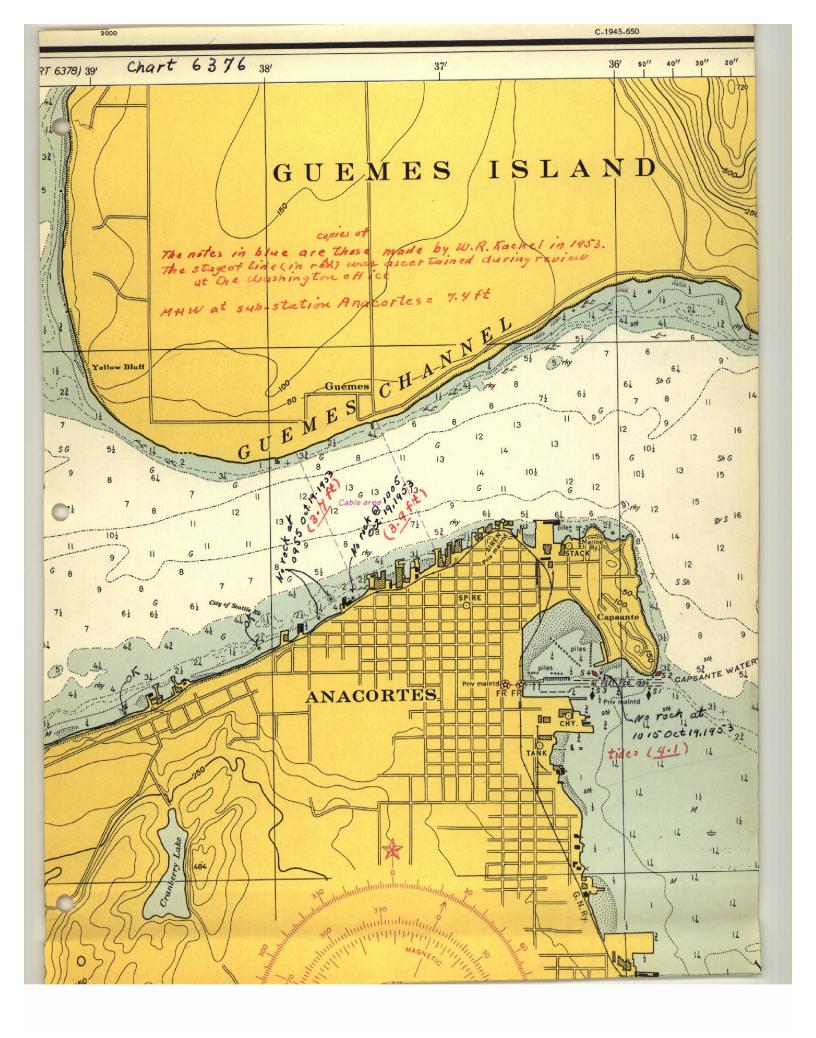
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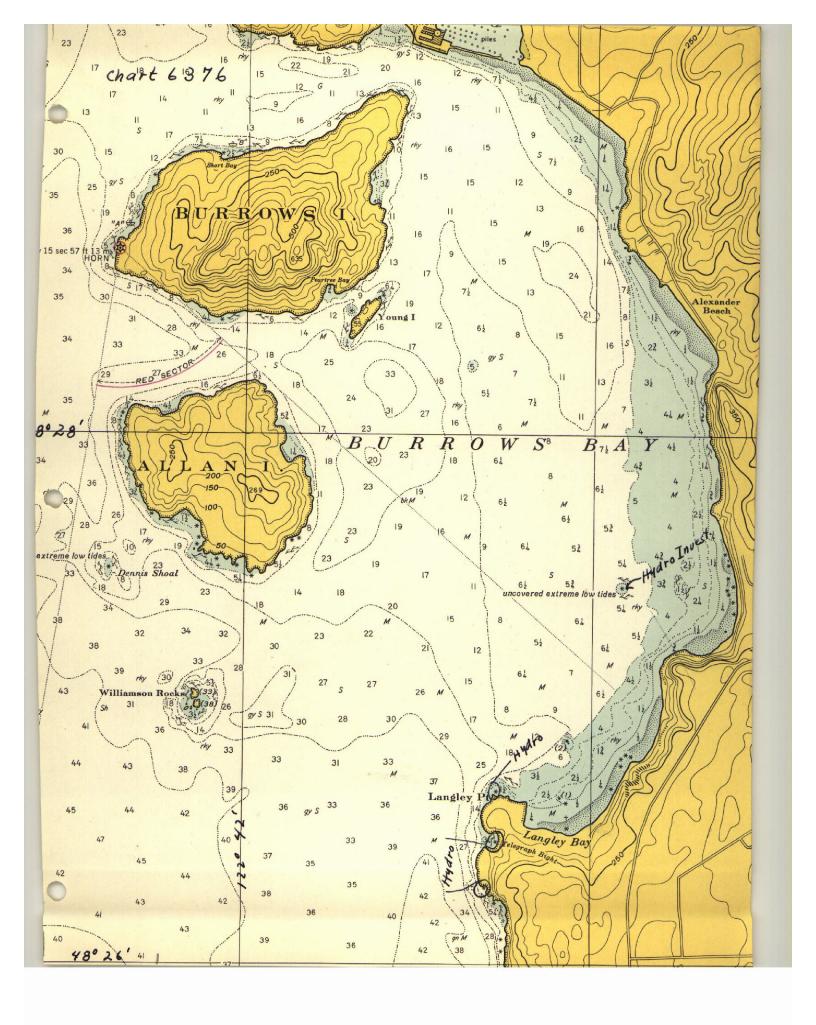
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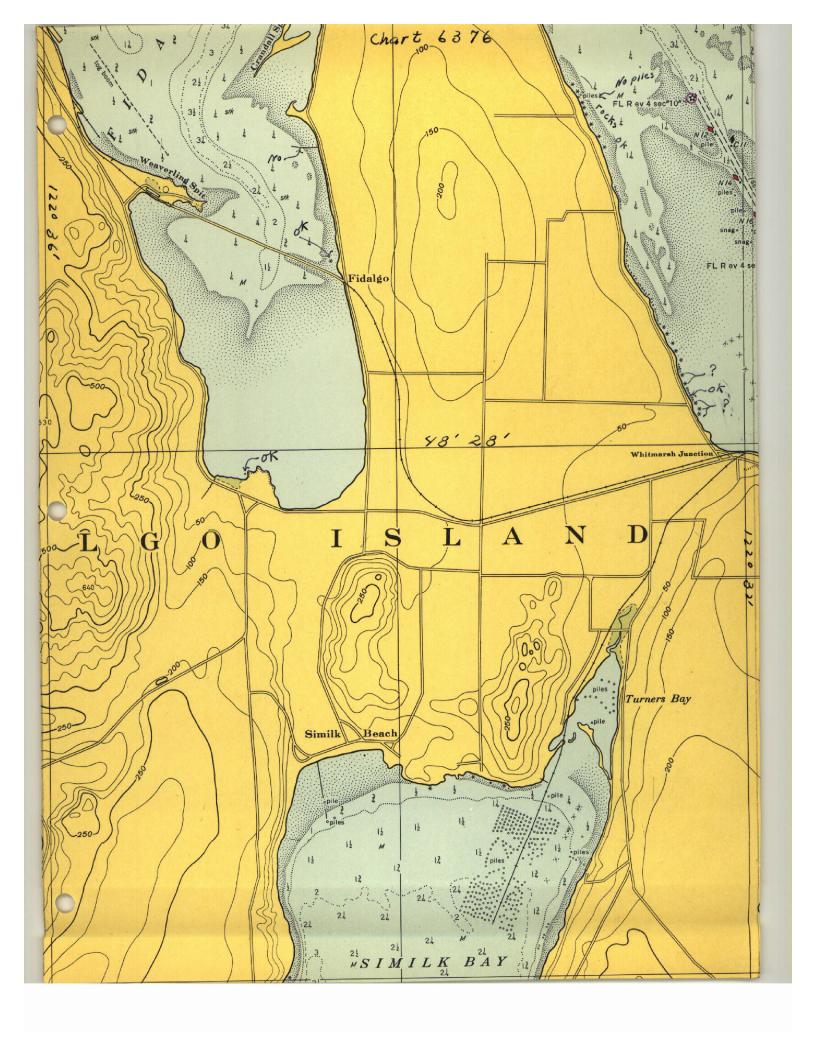
PHOTOGRAMMETRIC OFFICE REVIEW

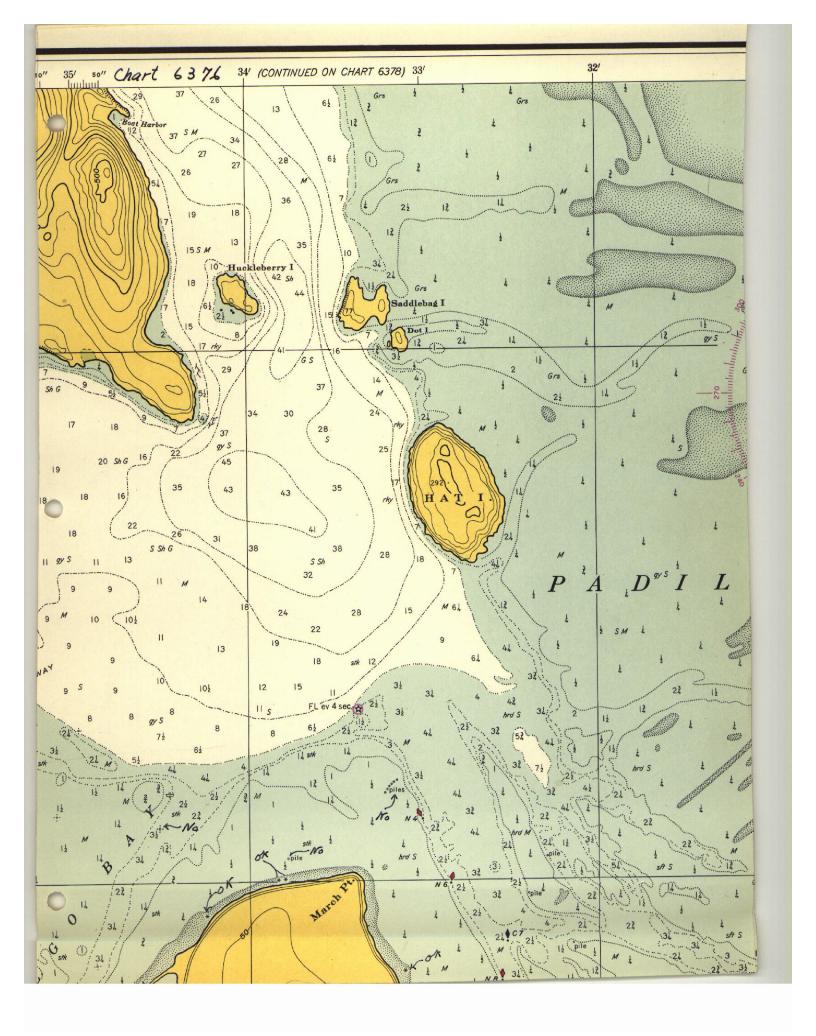
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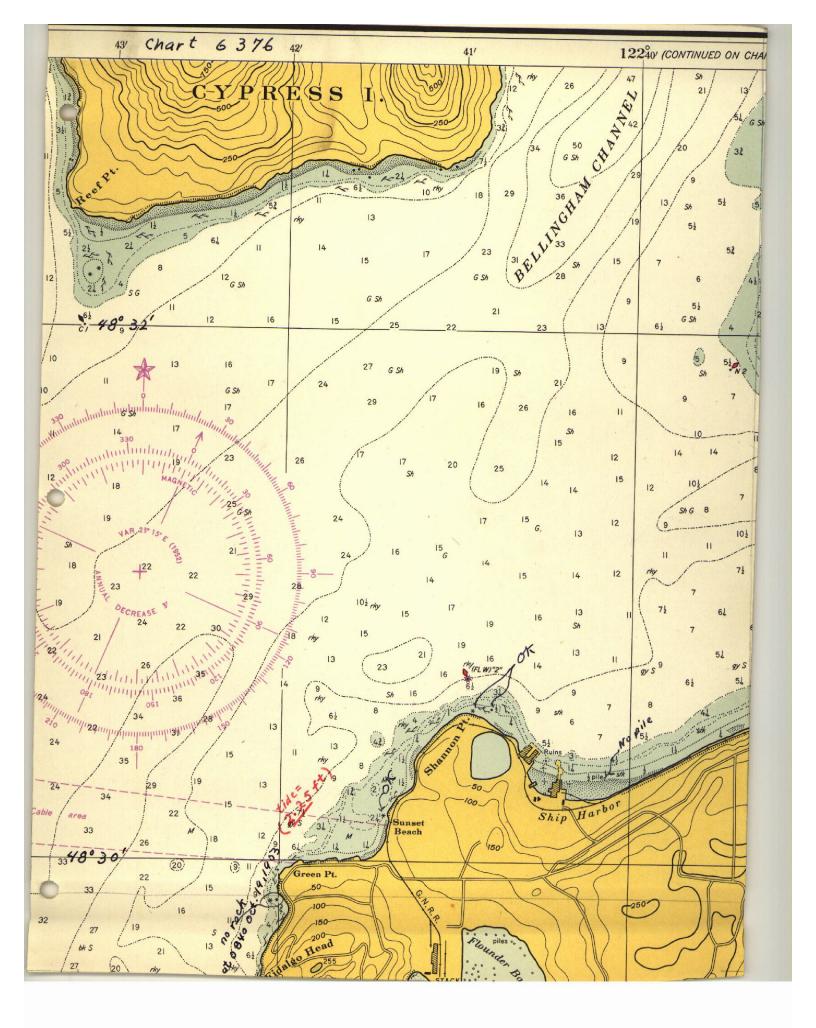
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FIELD COMPLETION ADDITIONS	AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field o	completion survey have been applied to the manuscript. The
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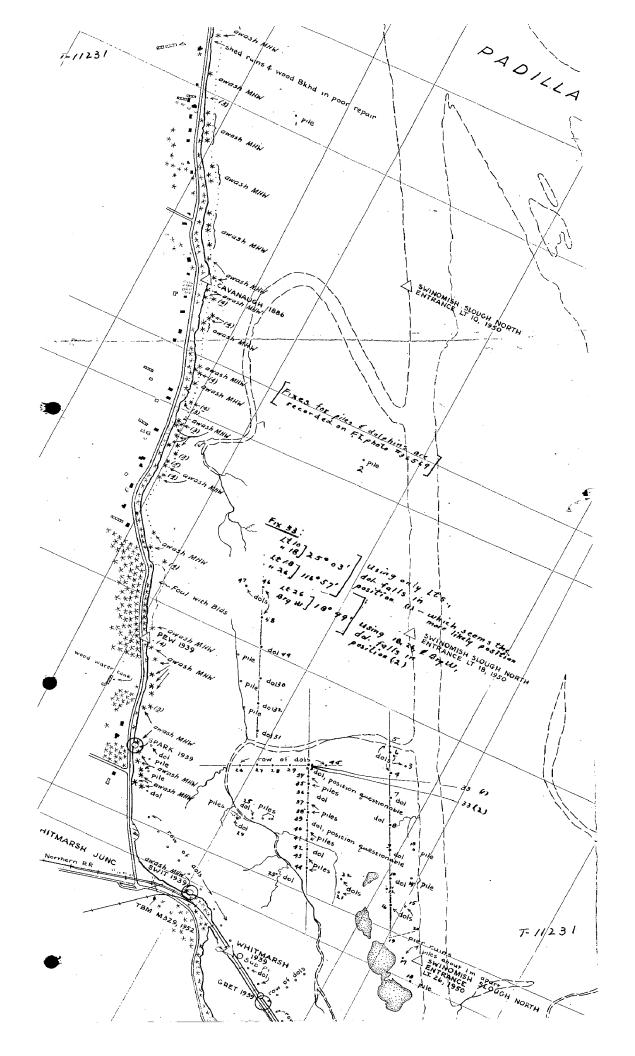












RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

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FORM CAGS-8352 SUPERSEDES ALL EDITIONS OF FORM CAGS-975.

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NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

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(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

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(3-25-53)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

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