

11586

Aug

Diag. Cht. No. 6380.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-5905 Office No. T-11586

LOCALITY

State Washington

General locality Fidalgo Island

Locality Swinomish Channel

1959-60

CHIEF OF PARTY

Lorne G. Taylor and Fred Natella

LIBRARY & ARCHIVES

DATE September 1964

USCOMM-DC 5087

11586

DESCRIPTIVE REPORT - DATA RECORD

T -11586

Project No. (II): Ph-5905 Quadrangle Name (IV):

Field Office (II): Mt. Vernon, Washington

Chief of Party: Lorne G. Taylor

Unit Chief: W. V. Hull

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Lorne G. Taylor
& Fred Natella

Instructions dated (II) (III): 10 Feb. 1960 II
5 May 1960 II & III

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (II): None

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): X

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

Reference Station (III): TRAP, 1934

Lat.: 48° 23' 32.493"

Long.: 122° 32' 08.451"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Washington Zone: North

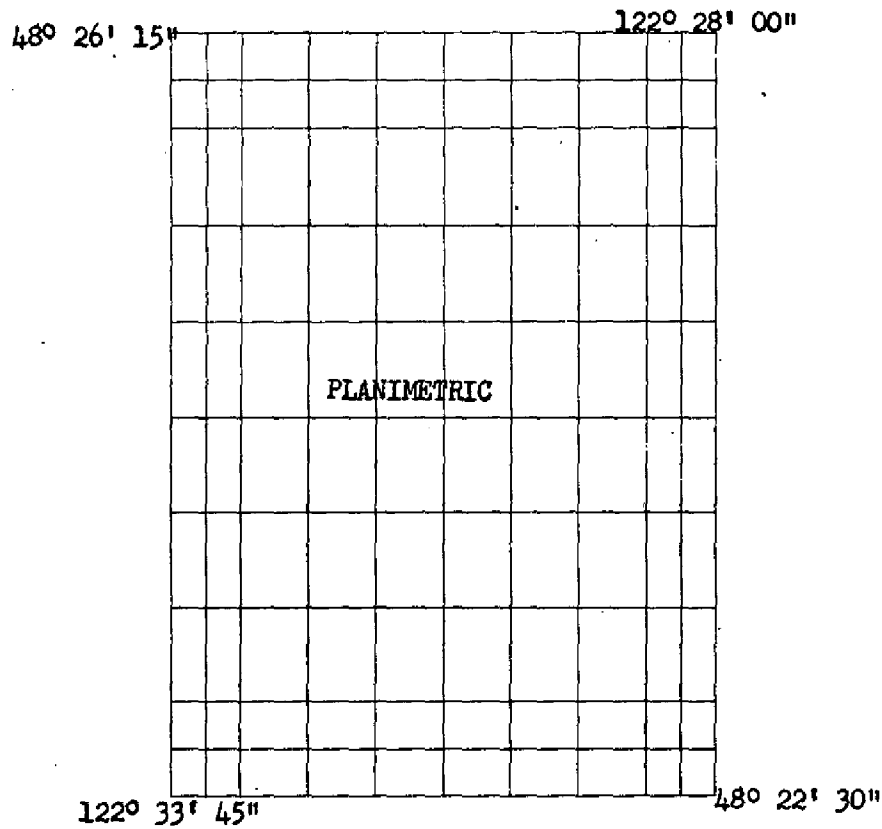
Y= 512,471.19

X= 1,586,418.49

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.

DESCRIPTIVE REPORT - DATA RECORD



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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): W. V. Hull & R. B. Melby Date: Apr., June & July 1960

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): 6-22-60, 6-23-60 and 7-5-60 by field inspection and parts by sextant fix. Compiled graphically by stereoscopic delineation.

Projection and Grids ruled by (IV): J. Keefer Date: 6-10-60

Projection and Grids checked by (IV): W. Souder, Date: 8-18-60

Control plotted by (III): C. C. Harris Date: 9-27-60

Control checked by (III): L. L. Graves Date: 10-7-60

Radial Plot or Stereoscopic Control extension by (III): J. L. Harris Date: 10-21-60

Stereoscopic Instrument compilation (III):
Planimetry Date:

Contours Date:

Manuscript delineated by (III):
J. L. Harris, Rough Draft Date: 7-17-61
C. H. Bishop, Scribing Date: 9-22-61
C. C. Harris, Stick-up Date: 11-16-61

Photogrammetric Office Review by (III):
C. C. Harris, Rough Draft Date: 7-20-61
J. E. Deal, Advance Date: 11-17-61

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

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS 9-lens, focal length 8.25 inches

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
60004 thru 60006	9-9-59	08:55	1:10,000	7.4' above M.L.L.W. (Ala Spit)
60078 and 60079	"	09:45	"	4.7' above M.L.L.W. (La Conner)
60081	"	09:46	"	" " "
60124 and 60125	"	10:13	"	4.8 " "

Note: 9-lens photo 60080 (Office print) was disregarded because of double fiducial marks.

The above tide data for La Conner applies only during low levels of the slough which usually occur in midsummer.

Tide (III)

Reference Station: Seattle, Washington
Subordinate Station: La Conner, Swinomish Slough
Subordinate Station: Ala Spit

Ratio of Ranges	Mean Range	Diurnal
		Spring Range
	7.6	11.3
	4.7	6.5
	6.9	10.5

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): 15
Shoreline (More than 200 meters to opposite shore) (III): 13
Shoreline (Less than 200 meters to opposite shore) (III): 3
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 41 Recovered: 22** Identified: 6
Number of BMs searched for (II): 10 Recovered: 9 Identified: 5*
Number of Recoverable Photo Stations established (III): 3
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

* 2 were north of project and are not shown on manuscript.

** Several were north of the project and are not shown on manuscript.

FIELD INSPECTION REPORT

Map Manuscript T-11586

Project Ph-5905

Refer to the Field Inspection Report for the entire Project
Ph-5905 by Wesley V. Hull, February 1960 to September 1960.

Filed with Desc. Report T11584

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-11586

Project Ph-5905

Refer to the combined radial plot report for T-11584 thru T-11586 and T-11589 thru T-11593 which is included in the Descriptive Report for T-11584 (1960).

MAP T. 11586

PROJECT NO. Ph-5905

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR U. COORDINATE LONGITUDE OR X-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
La Conner, Pioneers Monument, 1939	Pg. 295	N.A. 1927	512,255.89	2255.89	(2744.11)		687.6	(836.4)	
			1,598,649.29	3649.29	(1350.71)		1112.3	(411.7)	
La Conner Range Rear Light, 1960	Office Comp.	"	520,205.56	205.56	(4794.44)		62.7	(1461.3)	
			1,596,435.57	1435.57	(3564.43)		437.6	(1086.4)	
B 109 f 89 (USE) 1939	Pg. 294	"	526,238.74	1238.74	(3761.26)		377.6	(1146.4)	
			1,596,374.84	1374.84	(3625.15)		419.1	(1104.9)	
Sub Station A DO	Office Comp.	"	527,007.56	2007.56	(2992.44)		611.9	(912.1)	
			1,596,245.99	1245.99	(3754.01)		379.8	(1144.2)	
Sub Station B DO	"	"	527,355.32	2355.32	(2644.68)		717.9	(806.1)	
			1,597,756.45	2756.45	(2243.55)		840.2	(683.8)	
GRAP, 1934	Pg. 293	"	512,471.19	2471.19	(2528.81)		753.2	(770.8)	
			1,586,418.49	1418.49	(3581.51)		432.4	(1091.6)	
DO	Office Comp.	"	510,690.05	690.05	(4309.95)		210.3	(1313.7)	
			1,583,664.71	3664.71	(1335.29)		1117.0	(407.0)	
Swinomish Channel Range Rear Light 11, 1960	"	"	523,584.74	3584.74	(1415.26)		1092.6	(431.4)	
			1,594,989.07	4989.07	(10.93)		1520.7	(3.3)	
Swinomish Channel Range Front Light 11, 1960	"	"	523,866.06	3866.06	(1133.94)		1178.4	(345.6)	
			1,595,103.54	103.54	(4896.46)		31.6	(1492.4)	
PAT, 1939	Pg. 294	"	519,601.23	4601.23	(398.77)		1402.5	(121.5)	
			1,602,551.64	2551.64	(2448.36)		777.7	(746.3)	
ARMSTRONG, 1939	Pg. 294	"	512,399.62	2399.62	(2600.38)		731.4	(792.6)	
			1,602,383.41	2383.41	(2616.59)		726.5	(797.5)	
IAC, 1939	Pg. 294	"	511,691.77	1691.77	(3308.23)		515.7	(1008.3)	
			1,597,012.39	2012.39	(2987.61)		613.4	(910.6)	

1 FT. = 30480 METERS
COMPUTED BY: C.H.B. DATE: 9/1/60
CHECKED BY: J.L.H. DATE: 9-15-60
COMM. DC-57843

MAP T. 11585

PROJECT NO. Ph-5905

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y -COORDINATE LONGITUDE OR x -COORDINATE		DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
			FORWARD	(BACK)	FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
)FFSET, 1939	Pg. 294	N.A.	506,999.42		1999.42	(3000.58)		609.4	(914.6)		
			1,593,578.63		3578.63	(1421.37)		1090.8	(433.2)		
			527,052.82		2052.82	(2947.18)		625.7	(898.3)		
PERTH, 1939	Pg. 294	"	1,600,160.83		160.83	(4839.17)		49.0	(1475.0)		
			509,325.66		4325.66	(674.34)		1318.5	(205.5)		
TONKON, 1907	Pg. 299	"	1,584,884.14		4884.14	(115.86)		1488.7	(35.3)		

COMPILATION REPORT

Map Manuscript T-11586

Project Ph-5905

31. Delineation:

Graphic methods and nine-lens photographs were used for the compilation of planimetry.

Photography was adequate.

Photograph No. 60080 showed double fiducial marks and because it was not actually needed for the compilation, this photograph was disregarded.

Little or no field inspection was made of the numerous dikes or levees east of Swinomish Channel and around Sullivan Slough. Comparison was made with the U.S.G.S. La Conner quadrangle and where these features appeared on the quadrangle they were stereoscopically delineated and compiled on the manuscript.

Numerous rocks that bare at M.L.L.W. which are located just offshore from the west shoreline of Fidalgo Island and appearing on Nautical Chart No. 6376 were not field inspected. Because photography was considerably above M.L.L.W. they could not be delineated during compilation. On 6-23-60 at the time of field inspection there was a minus tide. Verification of existence, accurate locations and heights should have been obtained for these rocks.

32. Control:

Horizontal control was adequate. Several stations used to control the photography lie north of the project limits and do not appear on the advance manuscript.

33. Supplemental Data:

None.

34. Contours and Drainage:

Some drainage was field inspected. Drainage not field inspected was delineated by use of the stereoscope and reference to the U.S.G.S. La Conner quadrangle.

35. Shoreline and Alongshore Details:

Except as stated in Item 31, these features were adequately field inspected. Where the mean high-water line was obscured by dense shadows it was located by the field inspector who made numerous sextant fix locations at points along the mean high-water line.

Low-water and shoal lines could not be delineated since there was no low-water photography available.

The character of the foreshore is indicated by numerous notes shown along the mean high-water line.

36. Offshore Details:

A foul area is shown in Skagit Bay offshore from Tosi Point. Numerous piling and dolphins are found just offshore in Swinomish Channel and in the other water areas falling within the manuscript limits. Refer to Item 31 relative to rocks which bare at M.L.L.W.

37. Landmarks and Aids:

There are no landmarks.

Forms 567 are submitted for six fixed aids to navigation.

38. Control for Future Surveys:

None.

39. Junctions:

Satisfactory junctions were made with T-11585 on the west, T-11590 and T-11591 on the south. There are no contemporary surveys to the north and east.

40. Horizontal and Vertical Accuracy:

Vertical accuracy is not applicable.

There are no areas believed to be of sub-normal horizontal accuracy.

41. Bridge and Cable Clearances:

Clearances for these features located in Swinomish Channel are indicated on Nautical Chart No. 6376. Project instructions did not require verification.

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 15 minute, Deception Pass, Wash. quadrangle, Scale 1:62,500, Edition of 1951 and with U.S.G.S. 7½ minute La Conner, Wash. quadrangle, Scale 1:24,000, Edition of 1956.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart 6376, Scale 1:25,000, 1st Edition 5-5-45, revised 6-27-60, hand corrected 7-9-60.

The water and marsh area on the west side of Swinomish Channel just north of the south entrance has changed considerably.

McGlenn Island is no longer separated from the mainland by a marsh area. A strip of fast land now makes the island a part of the mainland.

Items to be Applied to Nautical Charts Immediately:

In Skagit Bay just north of Deadman Island a line of piling with woven wire fencing extends approximately 1000 meters offshore from the M.H.W.L. There is also a building on piles at the end of this row of piling.


A similar line of piling and building is located 1000 meters offshore and 800 meters southwest of Little Deadman Island.

These features may be a danger to small boat navigation at high tide.


Items to be Carried Forward:

None.

Approved:


Fred Natella, CAPT, C&GS
Portland District Officer

Respectfully submitted:


J. Edward Deal
Cartographer

49. Notes to the Hydrographer:

None.

T-11586

COMPILATION RECORD	COMPLETION DATE	REMARKS
<i>4. Interior Details added Compilation complete</i>	<i>11-16-61</i>	

PHOTOGRAMMETRIC OFFICE REVIEW

T-11586

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

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) 7. Photo hydro stations none 8. Bench marks
9. Plotting of sextant fixes 10. Photogrammetric plot report 11. Detail points

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline 13. Low-water line none 14. Rocks, shoals, etc. 15. Bridges 16. Aids to navigation 17. Landmarks none 18. Other alongshore physical features 19. Other along-shore cultural features

PHYSICAL FEATURES

20. Water features 21. Natural ground cover 22. Planetable contours none 23. Stereoscopic instrument contours none 24. Contours in general none 25. Spot elevations none 26. Other physical features

CULTURAL FEATURES

27. Roads 28. Buildings 29. Railroads none 30. Other cultural features

BOUNDARIES

31. Boundary lines none 32. Public land lines none

MISCELLANEOUS

33. Geographic names 34. Junctions 35. Legibility of the manuscript 36. Discrepancy overlay none 37. Descriptive Report 38. Field inspection photographs 39. Forms
40. Leavita L. Harris Edward Deal
Reviewer Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

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

 Compiler

 Supervisor

43. Remarks:

T-11586

48. Geographic Names:

Deadman Island

Fidalgo Island

Hope Island

Hunot Point

Kiket Island

La Conner

Little Deadman Island

McGlinn Island

Similk Bay

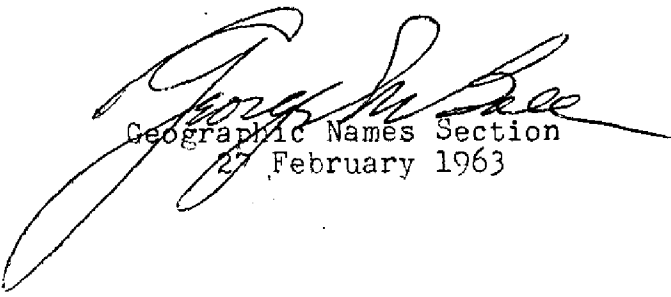
Skagit Bay

Snee-oosh Beach

Sullivan Slough

Swinomish Channel

Tosi Point


Geographic Names Section
27 February 1963

Review Report
Shoreline Surveys
T-11584 thru T-11593
May 1964

61. General Statement

These are ten (10) shoreline maps of project PH-5905, Puget Sound, Washington. These maps were prepared primarily to provide basic maps, including the location of all non floating aids and landmarks for use in revising our nautical charts and for control of proposed hydrographic surveys.

62. Comparison with Registered Topographic Surveys

T-1252	1:10,000	1871
T-2156	1:20,000	1889
T-2856	1:20,000	1908
T-6684b	1:10,000	1939
T-6685a&b	1:10,000	1939
T-6686	1:10,000	1939
T-6687	1:5,000	1939
T-6689	1:5,000	1939
T-6769	1:10,000	1940

Agreement with the above surveys is in general fair. There are many differences most of which are due to natural changes, but the general picture presented by the above surveys are reasonably similar to that of the present surveys. The above surveys are to be superseded for the common area.

63. Comparison with Maps of Other Agencies

Deception Pass	1:62,500	1951
Utsalady	1:24,000	1956
Conway	1:24,000	1956

There are small cultural and shoreline differences but in general the agreement is good.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

See item 47.

66. Accuracy of Results and Future Surveys

These surveys comply with instructions and meet the National Standard of Map Accuracy.

Reviewed by:

L. C. Lande
L. C. Lande

Approved by:

Charles Thun
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

J. E. Waugh 7/27/64
Chief, Photogrammetry Division

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11586

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.

CHART	DATE	CARTOGRAPHER	REMARKS
6300	8-17-65	E.R. Johnson	Full Part Before After <u>Verification</u> Review Inspection Signed Via Drawing No.
18427	3-24-80	J.M. Hill	Full Part Before <u>After</u> <u>Verification</u> <u>Review</u> <u>Inspection</u> Signed Via Drawing No. 25
		3-26-80 RCS	
18423B	1-30-81	G. Jamel	Full Part Before <u>After</u> <u>Verification</u> <u>Review</u> <u>Inspection</u> Signed Via Drawing No. X Dtg 21
Inset 3		2-6-81 RCS	
18423A	1-30-81	G. Jamel	Full Part Before <u>After</u> <u>Verification</u> <u>Review</u> <u>Inspection</u> Signed Via Drawing No. X Dtg 21
		2-6-81 RCS	
18421	1-30-81	G. Jamel	Full Part Before <u>After</u> <u>Verification</u> <u>Review</u> <u>Inspection</u> Signed Via Drawing No. 47
		2-6-81 RCS	
			Full Part Before <u>After</u> <u>Verification</u> <u>Review</u> <u>Inspection</u> Signed Via Drawing No.
			Full Part Before <u>After</u> <u>Verification</u> <u>Review</u> <u>Inspection</u> Signed Via Drawing No.
			Full Part Before <u>After</u> <u>Verification</u> <u>Review</u> <u>Inspection</u> Signed Via Drawing No.
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