

11596

orig

Diag. Cht. No. 6450-2.

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-11596
LOCALITY	
State	Washington
	Saratoga Passage
General locality	Puget Sound
Locality	Oak Harbor
1960	
CHIEF OF PARTY	
Lorne G. Taylor and Fred Natella	
LIBRARY & ARCHIVES	
DATE	July 1964

USCOMM-DC 5087

11596

DESCRIPTIVE REPORT - DATA RECORD

T - 11596

Project No. (II): Ph-5905

Quadrangle Name (IV):

Field Office (II): Mt. Vernon, Washington

Chief of Party: Lorne G. Taylor

Sub Unit: John C. Lajoie & Wesley V.

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Lorne G. Taylor

Hull

& Fred Natella

Instructions dated (II) (III): 10 Feb. 1960 II
Supplement 1, 5 May 1960 II & III

Copy filed in Division of

Photogrammetry (IV)

Method of Compilation (III): Kelsh Stereoscopic Instrument

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6000

Kelsh Pantograph Scale: 1:10,000

Scale Factor (III): None

Date received in Washington Office (IV):

MAR 30 1961

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):

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

Reference Station (III): AMMO, 1951

Lat.: 48° 17' 59.016"

Long.: 122° 35' 26.647"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Washington Zone: North

Y= 478,988.30

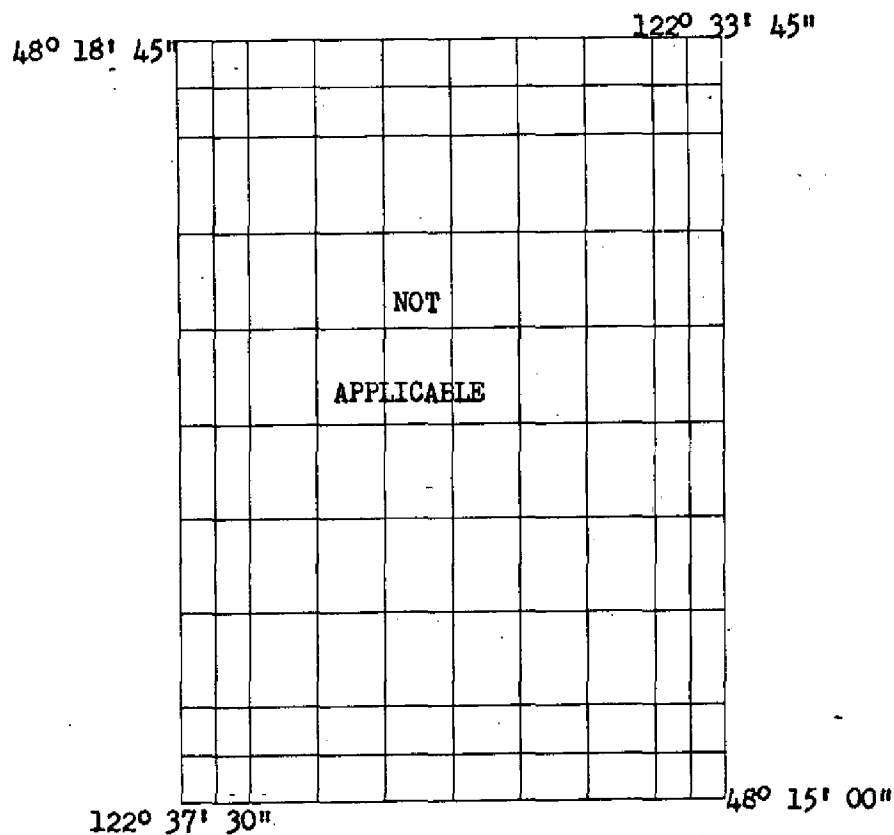
X= 1,572,273.80

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

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY



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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II):	Wesley V. Hull, Shoreline " " Interior	Date: 6-9-60 June 1960
Planetable contouring by (II):		Date:
Completion Surveys by (II):		Date:
Mean High Water Location (III) (State date and method of location): 6-9-60 by field inspection and Kelsh Instrument Compilation.		
Projection and Grids ruled by (IV):	J. Keefer	Date: 5-19-60
Projection and Grids checked by (IV):	Dempsey	Date: 5-31-60
Control plotted by (III):	J. E. Deal	Date: 6-14- & 22-60
Control checked by (III):	J. L. Harris	Date: 6-15 & 22-60
Radial Plot or Stereoscopic Control extension by (III):	C. A. Kuncis	Date: July 1960
Planimetry	D. N. Williams	Date: 9-26-60
Stereoscopic Instrument compilation (III):	Contours	Date:
Manuscript delineated by (III):	J. L. Harris, Scribing C. C. Harris, Stick-up	Date: 10-31-60 2-1-61
Photogrammetric Office Review by (III):	L. L. Graves, Rough Draft J. E. Deal, Advance	Date: 10-12-60 2-13-61
Elevations on Manuscript checked by (II) (III):		Date:

DESCRIPTIVE REPORT - DATA RECORD

5. U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Camera (kind or source) (III): U.S.C. & G.S. Single Lens - "S"

Number	Date	Time	Scale	Stage of Tide
60-S-2642 & 2643	4-26-60	10:22	1:30,000	0.3 ft. above M.L.L.W.
60-S-2719 thru 2721	"	11:25	"	-0.2 ft. below M.L.L.W.

Tide (III)

Reference Station: Seattle, Washington
Subordinate Station: Coupeville, Penn Cove, Washington
Subordinate Station:

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
	7.6	11.3
	7.8	11.5

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): 4
Shoreline (More than 200 meters to opposite shore) (III): 5
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 12 Recovered: 10 Identified: 4*
Number of BMs searched for (II): 4** Recovered: 4 Identified: 2
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): 4

Remarks:

* Two were aids to navigation identified as photo-hydro stations.

** Tidal Bench Marks.

FIELD INSPECTION REPORT

Map Manuscript T-11596

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 T-11584

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-11596

Project Ph-5905

Refer to the combined Photogrammetric Plot Report (Stereoplanigraph Bridge) for Strips 1, 3, 4, 5, 6, 7, 8, 9, 10 and 11 by Willard A. Kuncis, July 1960.

Filed with Desc. Report T-11584

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T. 11596

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 FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
AMMO, 1951	Wash.N. Pg.274	N.A. 1927	478,988.30	3988.30	(1011.70)		1215.6	(308.4)		
	Wash. Office Comp.	"	1,572,273.80	2273.80	(2726.20)		693.1	(830.9)		
Sub Station	Wash.N. Pg.274	"	478,957.3	3957.3	(1042.7)		1206.2	(317.8)		
	Wash. Office Comp.	"	1,572,226.7	2226.7	(2773.3)		678.7	(845.3)		
CONTROL, 1951	Wash.N. Pg.273	"	472,947.91	2947.91	(2052.09)		898.5	(625.5)		
	"	"	1,564,750.15	4750.15	(249.85)		1447.8	(76.2)		
CRES, 1951	Wash.N. Pg.274	"	475,043.03	43.03	(4956.97)		13.1	(1510.9)		
	Field Comp.	"	1,578,505.73	3505.73	(1494.27)		1068.5	(455.5)		
WHIDBEY ISLAND N.A.S. ROTATING AERO BEACON, 1960	Wash.N. Pg.276	"	472,958.34	2958.34	(2041.66)		901.7	(622.3)		
	Field Comp.	"	1,564,747.32	4747.32	(252.68)		1447.0	(77.0)		
RNG, NAVY WHIDBEY RADIO NUM, 1954	Wash.N. Pg.276	"	478,446	3446.	(1554.)		1050.3	(473.7)		
	Field Comp.	"	1,566,325	1325.	(3675.)		403.9	(1120.1)		
CRESCENT HARBOR LIGHT 1960	Wash.N. Pg.276	"	478,890.36	3890.36	(1109.64)		1185.8	(338.2)		
	Field Comp.	"	1,572,452.82	2452.82	(2547.18)		747.6	(776.4)		
FORBES POINT LIGHT, 1960	Wash.N. Pg.276	"	468,248.17	3248.17	(1751.83)		990.0	(534.0)		
	Field Comp.	"	1,564,177.01	877.01	(22.99)		1273.2	(250.8)		
PROP, 1951	Wash.N. Pg.274	"	482,219.68	2219.68	(2780.32)		676.6	(847.4)		
	Field Comp.	"	1,565,221.18	221.18	(4778.82)		67.4	(1456.6)		
WHIDBEY ISLAND NAS CRESCENT HARBOR CONTROL TOWER CHIMNEY, 1951	Wash.N. Pg.276	"	472,921.27	2921.27	(2078.73)		890.4	(633.6)		
	Field Comp.	"	1,564,732.22	4732.22	(267.78)		1442.4	(81.6)		
LINE 1951	Wash.N. Pg.274	"	481,728.57	1728.57	(3271.43)		526.9	(997.1)		
	Field Comp.	"	1,573,133.77	3133.77	(1866.23)		955.2	(568.8)		

1 FT. = 3048006 METER

COMPUTED BY

J.E.D.

J.L.H.

DATE

(1-22-40)

(1-22-40)

CHECKED BY

J.E.D.

J.L.H.

DATE

(1-22-40)

(1-22-40)

CONRAD-57043

COMPILATION REPORT

Map Manuscript T-11596

Project Ph-5905

Items 31 and 32:

Refer to Descriptive Report for T-11597 (1960).

33. Supplemental Data:

Map of Island County, Washington, Scale 1 inch = 1 mile,
compiled by Island County Engineer, March 1958.

Map of U. S. Naval Aid Station, Whidbey Island, Washington,
dated 1 Dec. 1953, Scale: 1 inch = 1000 feet.

34. Contours and Drainage:

Contours are not applicable. Drainage shown on the manuscript was field inspected. "Eerkes Spr." a final geographic name refers to a short drain shown on the U.S.G.S. 15 minute Deception Pass quadrangle at Lat. $48^{\circ} 17.75'$ and Long. $122^{\circ} 37.25'$. *Deleted* It was not field inspected and could not be office identified from minute stereoscopic examination of the photographs. The name is shown on the manuscript but it is recommended that the name be deleted since the spring is not shown. There is an indication that roads in this vicinity have been slightly changed and the drain diverted but this cannot be definitely ascertained in the office, because of the large scale difference between the manuscript and quadrangle.

Items 35 and 36:

Refer to Descriptive Report for T-11597 (1960).

37. Landmarks and Aids:

Form 567 is submitted for two landmarks, one located by traverse and the other by Kelsh Instrument. Form 567 is submitted for two aids to navigation located by triangulation methods. Form 567 is submitted for one of the landmarks which is also an aeronautical aid.

38. Control for Future Surveys:*Three*

Four photo-hydro stations were located, by Kelsh Instrument and one by
They are listed in Item 49, Notes to the Hydrographer. *Theodolite*

39. Junctions:

Satisfactory junctions were made with T-11589 on the north,
T-11595 on the west, T-11597 on the east and T-11604 on the south.

40. Horizontal and Vertical Accuracy:

Refer to Descriptive Report for T-11597 (1960).

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 15 minute Deception Pass,
Washington quadrangle, Scale 1:62,500, edition of 1951.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6404, Scale
1:10,000, 1st edition Aug. 1943, corrected through Sept. 26,
1959, and with Nautical Chart No. 6450, Scale 1:80,000, 11th
edition, corrected 7-27-59.

Items to be Applied to Nautical Charts Immediately.

None.

Items to be Carried Forward.

None.

Approved:

Fred Natella

Fred Natella
CAPT, C&GS
Portland District Officer

By JED.

Respectfully submitted:

J. Edward Deal

J. Edward Deal
Cartographer
C&GS

49. Notes to the Hydrographer:

Four photo-hydro stations were located ^{Three} by Kelsh Instrument ^{and one by} ~~and one by~~ ^{Theodolite}.

<u>Number</u>	<u>Description</u>	<u>Field Photo. No.</u>
9601	North gable of largest white house on point	60-S-2721
9602	2" x 4" stake driven into top of dike on centerline of 36" drain pipe. Projects 18" and is 24 ft. south of south edge of 8' x 8' well with wood top flagged with signal cloth.	Theodolite 3 point fix.
9603	First dark object on dike east of 36 inch concrete pipe outlet	60-S-2643
9604	Tall lone tree in cultivated field	60-S-2770 (contact)

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11596

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads X 28. Buildings X 29. Railroads None 30. Other cultural features X

BOUNDARIES

31. Boundary lines None 32. Public land lines None

MISCELLANEOUS

33. Geographic names X 34. Junctions X 35. Legibility of the manuscript X 36. Discrepancy overlay None 37. Descriptive Report X 38. Field inspection photographs X 39. Forms X 40. L. L. Graves J. 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:

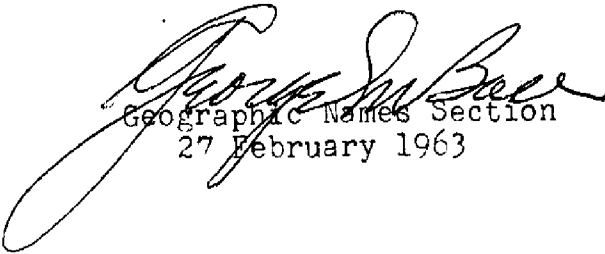
48. Geographic Names:

Crescent Harbor

Forbes Point

Saratoga Passage

Whidbey Island


Geographic Names Section
27 February 1963

Review Report
Shoreline Surveys
T-11594 through T-11600
April 1964

61. General Statement

These are seven (7) 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-1253	1:10,000	1871
T-2011	1:20,000	1888
T-2156	1:20,000	1889
T-6685a	1:10,000	1939
T-6768	1:10,000	1940
T-6769	1:10,000	1940

Cultural and shoreline changes have been continuous with extensive cultural changes in Oak and Crescent Harbors on Whidbey Island. These maps are to supersede the above surveys of common area for nautical charting.

63. Comparison with Maps of Other Agencies

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

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

64. Comparison with Contemporary Hydrographic Surveys

H-8542	1:10,000	1960
H-8543	1:10,000	1960

Shoreline and control of the subject surveys was furnished prior to the hydrographic surveys and apparently no differences exist.

65. Comparison with Nautical Charts

6404	1:10,000	1952 revised to Mar. 1961
6450	1:80,000	1961 revised to Oct. 1963
184 S.C.	1:80,000	1963

There are no differences of importance between the charts and the manuscripts.

66. Accuracy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the required accuracy for nautical charting.

Reviewed by:

L. C. Lande
L. C. Lande

Approved by:

Charles J. Henn
Chief, Photogrammetric Branch

J. E. Waugh
Chief, Photogrammetry Division
7/10/64

