

5592

Diag. Cht. No. 6380.

Form 604

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-26 (47) Office No. T-5592

LOCALITY

State Washington

General locality San Juan Island

Locality Kanaka Bay

1949-54

CHIEF OF PARTY

C.W.Clark, Chief of Field Party

H.A.Paton, Baltimore Photo. Office

LIBRARY & ARCHIVES

DATE July 1, 1960

USCOMM-DC 5087

5592

DATA RECORD

T -5592

Project No. (II): Ph-26(47) Quadrangle Name (IV):

Field Office (II): Friday Harbor, Washington Chief of Party: Lt. Comdr. Charles W. Clark

Photogrammetric Office (III): Baltimore, Maryland. Officer-in-Charge: Hubert A. Paton

Instructions dated (II) (III): 31 August 1949
24 October 1949 Copy filed in Division of
Photogrammetry (IV)
Office Files

Method of Compilation (III): Air Photographic (Multiplex)

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III): 1:10,000

Scale Factor (III): 1.00

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

Applied to Chart No. Date: Date registered (IV): 3/19/59

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 1927 Vertical Datum (III):
Mean sea level except as follows: *Half-tide*
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): FORT, 1897

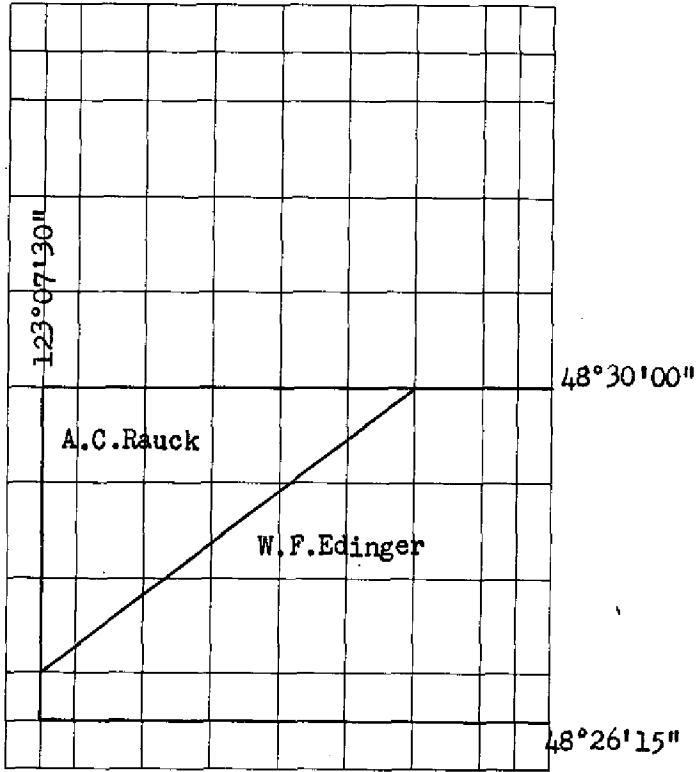
Lat.: 48° 27' 47.90" Long.: 123° 00' 51.87° Adjusted
~~1060, 1060~~

Plane Coordinates (IV): State: Washington Zone: North

Y= X=

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

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



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

123°00'00"

DATA RECORD

Field Inspection by (II): J.C. Lajoie and J.H. Winniford

Date: 22 September 1950

Planetable contouring by (II):

Date:

Completion Surveys by (II): *Ray H. Skelton II*

Date: *Sept. 1954*

Mean High Water Location (III) (State date and method of location):
June 1949 (Same as date of photography)

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

Date: Nov. 1950

Projection and Grids checked by (IV): H.D.W.

Date: Nov. 1950

Control plotted by (III): Albert C. Rauck, Jr.

Date: May 1951

Control checked by (III): Henry P. Eichert

Date: May 1951

Radial Plot or Stereoscopic

Control extension by (III): W. F. Edinger

Date:

April 1951

Stereoscopic Instrument compilation (III):

Planimetry { A.C. Rauck, Jr.
W.F. Edinger
Contours { A.C. Rauck, Jr.
W.F. Edinger

Date: June 1951

Date: June 1951

Manuscript delineated by (III): C. A. Lipscomb
(See Remarks)

Date: July 1951

Photogrammetric Office Review by (III): E. L. Rolle

Date: Sept. 1951

Elevations on Manuscript
checked by (II) (III):

E. L. Rolle

Date: Sept. 1951

Camera (kind or source) (III): USC&GS Type "O" 6" focal length

San Juan Strait of
Channel Juan de
Fuca

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide (above MLLW)	
		Time				
49-0-1106 thru 1110	6-4-49	1126		1:20,000	4.1	3.1
49-0-1033 "	1034 "	1024		"		3.7
49-0-1029 "	1033 "	1022		"	4.4	
49-0-1060 "	1065 "	1044		"	4.4	3.5
49-0-1035 "	1039 "	1030		"		3.6
49-0-1008 "	1014 "	1005		"		3.8

Tide (III)

Computed from table of tides

Reference Station: PORT TOWNSEND, WASH.
 Subordinate Station: FRIDAY HARBOR, SAN JUAN I.
 Subordinate Station: KANAKA BAY, SAN JUAN I.

Diurnal

Ratio of Ranges	Mean Range	Range
	5.1	8.3
0.9	4.5	7.7
0.8	3.9	7.0

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Mary E. Taylor

Date: 6/24/59

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 8
 Shoreline (More than 200 meters to opposite shore) (III): 11
 Shoreline (Less than 200 meters to opposite shore) (III): None
 Control Leveling - Miles (II): 7.2
 Number of Triangulation Stations searched for (II): 23 Recovered: 17 Identified: 9
 Number of BMs searched for (II): 4, Established: 16 Recovered: 20 Identified: 15
 Number of Recoverable Photo Stations established (III): 4
 Number of Temporary Photo Hydro Stations established (III): None

- Remarks: 1. Assembly and evaluation of data for Public Land Lines by Donald M. Brant
 2. Only 21 triangulation station recovery cards received - 16 Recovered
 9 Identified
 3. 20 BM Recovery Cards received. Of the 15 identified, 11 were on this quad. The remaining 4 are on T-5591.

Baltimore Photogrammetric Office.

Summary to Accompany Descriptive Report T-5592

Topographic map T-5592 is one of 13 similar maps of Project Ph-26. It covers the south portion of San Juan Island.

Project Ph-26 is a stereoscopic mapping project. Field work in advance of compilation included the establishment and recovery of horizontal and vertical control, field inspection of shoreline and interior features and the investigation of boundaries, land lines and geographic names. T-5592 is a multiplex compilation at scale 1:10,000 from 1949 single-lens photographs. The entire map was field-edited in 1954. The manuscript consists of two sheets, each 3-3/4' in latitude by 7-1/2' in longitude. All detail is included on the north half. The south half is water area within the United States and shows only the United States-Canada boundary line. With the addition of hydrographic data, the map is to be published by the Geological Survey at a scale of 1:24,000 as a standard topographic quadrangle.

Items registered under T-5592 will include one ~~cloth-mounted~~ ^{COLOR} print at a scale of 1:10000 for each half of the map manuscript, a cloth-mounted color print at a scale of 1:24000 of the published map and the descriptive report.

FIELD INSPECTION REPORT

The field inspection report covering Maps T-5588 to T-5592, inclusive, is filed as part of the Descriptive Report for T-5588.

PHOTOGRAMMETRIC PLOT REPORT

The photogrammetric plot report covering Maps
T-5588 to T-5592, inclusive, is filed as part of the
Descriptive Report for T-5588.

MAP T-5592

PROJECT NO. PH-26(47)

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

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)
TOM, 1897	G-5649 Pg. 708	N.A. 1927	48 29	48.070	1484.8	368.5					
			123 01	00.769	15.8	1216.0					
SAN JUAN, 1867	G-516 Pg. 57	"	48 27	36.909	1140.0	713.2					
			123 02	08.567	176.0	1056.7					
PILE POINT R M 1909	G-5503 Pg. 633	"	48 28	58.193	1797.5	55.8					
			123 05	35.415	727.2	504.9					
LOW POINT, 1897	G-5649 Pg. 698	"	48 29	03.974	122.8	1730.6					
			123 00	22.899	470.3	761.9					
FORT, 1897	Pg. 1264	"	48 27	47.90	1479.6	373.8					
			123 00	51.87	1065.6	167.0					
FLAGPOLE NEAR PICKETTS MON. 1943	G-5649 Pg. 710	"	48 27	47.97	1481.7	371.6					
			123 00	51.36	1055.1	177.5					
EDWARDS 2, 1942	G-5503 Pg. 625	"	48 29	56.637	1749.5	103.9					
			123 07	55.259	1134.4	97.3					
BOLDA, 1940	G-5649 Pg. 709	"	48 27	56.788	1754.1	99.2					
			122 59	47.337	972.4	260.1					
PICKETT'S MON. 1943	G-5649 Pg. 710	"	48 27	48.01	1483.0	370.4					
			123 00	51.04	1048.5	184.1					
PILE POINT, 1894	G-5503 P. 625	"	48 28	57.440	1774.3	79.1					
			123 05	36.629	731.7	500.5					

On T-5590.
east of map limits.

1 FT. = 3048006 METERS
COMPUTED BY: *Dr. W. M. ...*

DATE Jan. 31, 1951

CHECKED BY: *E. L. ...*

DATE Feb. 7, 1951

COMPILATION REPORT T-5592

Field Inspection Report and Photogrammetric Plot Report will be found incorporated with the descriptive report for Survey No. T-5588.

31. DELINEATION

Refer to item 31 of descriptive report for T-5588.

32. CONTROL

Refer to Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

Land Plats.

1- Township No. 34 North, Range No. 3 West, Willamette Meridian, Wash., dated April 15, 1875.

1- Township No. 35 North, Range No. 3 West, Willamette Meridian, Wash., dated April 15, 1875.

1- Plat of San Juan County, San Juan Island dated October 25, 1945

For a description of how these data were used, refer to item 41, Boundaries, of Descriptive Report for T-5584.

34. CONTOURS AND DRAINAGE

a. The area has a few small spreads of heavy timber which caused some difficulty in contouring. Extensive use was made of the stereoscope and contact prints to enable a better interpretation of detail.

b. The diapositives used in this quadrangle were a little "fuzzy" causing some difficulty in drawing the map detail.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate with one exception. There seemed to be a few prominent rock ledges which were not identified in the field. All said apparent rock ledge detail was delineated from office interpretation.

The MLWL at False Bay was delineated from field inspection.

See §64

36. OFFSHORE DETAILS

Refer to paragraph 49.

37. LANDMARKS AND AIDS

All data are complete. Refer to Forms 567, appended.

38. CONTROL FOR FUTURE SURVEYS

Four 524 forms have been submitted with this report. Paragraph 11 of the Field Inspection Report calls for only three of these forms. The fourth 524 form submitted and not listed under paragraph 11 was for station MART, 1950; this is classified as a landmark. The positions of these four stations were established by the multiplex.

A list of recoverable topographic stations has been prepared and included in paragraph 49.

39. JUNCTIONS

Junctions were made to the north with Survey T-5591; to the east there is no contemporary survey; to the west* and south is water.

* Junctions with T-5590 (extension zone) *CTR*

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to Photogrammetric Plot Report *See § 66*

41. BOUNDARIES

Public Land Lines -

Refer to Special Report, Land Lines - Project Ph-26(47) and item 10 of field inspection report.

For the details of land line delineation, refer to the Descriptive Report of T-5584 under item 41 entitled Boundaries. (*Discusses compilation procedure*) *CTR*

The graphically enlarged copy of the land plats of townships used in this quadrangle, is submitted with this report.

46. COMPARISON WITH EXISTING MAPS

There were no reliable maps covering this area available for comparison. *See § 62*

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 6380, scale 1:80,000, published March 1947 (8th edition)
(3/3/47).

Items to be applied to nautical charts immediately:
None.


See §65

Items to be carried forward:
None.

Respectfully submitted
14 September 1951


Edward L. Rolle
Cartographic Photo. Aid


Approved and forwarded


Hubert A. Paton
Comdr., C&GS
Officer in Charge

FIELD EDIT REPORT

Map Manuscript T-5592

Project Ph-26(47)

51. Methods:

No new or unusual methods have been used in the field edit of this sheet. All planimetric detail was compared with the map by inspection from a truck or by walking. Topography was resketched where necessary using the plane table.

A legend showing the colored inks and symbols used is shown on Field Edit Sheet No. 1. Field Edit corrections have been shown on Field Edit Sheets numbered 1 to 3, and on five photographs numbered 1010, 1062 - 1064 inc., and 1106. The Field Edit Sheets are cross-referenced to the photographs.

52. Adequacy of Compilation:

The compilation is in general quite good. There were very few omissions. The initial field inspection seemed good and the compiler made a faithful transcription of the field inspection notes. There is a weakness in horizontal position at the west end of the sheet discussed under the "Map Accuracy" heading.

53. Map Accuracy:

A weakness in horizontal position appeared in the vicinity of EDWARDS 2 1942 in the northwest corner of the sheet. The maximum error seemed about 35 feet. The trouble did not seem clear-cut and since the error did not exceed the 1.22 mm. maximum at this scale the matter was not pursued further. Detail in the immediate vicinity of the station checked reasonably, but positions carried into the station from a half mile distant by plane table would not check. This plane table traverse closed back on itself with a 10-foot closure and the azimuth from the vicinity of EDWARDS 2 to PILE POINT R M checked quite well, so it becomes difficult to say just what the trouble may be. EDWARDS 2 has been identified on Photo 1010 and an identification card is submitted with this report. Since the error seems not excessive I recommend no further investigation.

The vertical accuracy of the sheet appears generally good. Eighteen miles of test profile were run. The lines are too extensive to list here, but their routes are shown with red lines on the accompany-

ing plat.

The contouring was generally good except in the northwest corner of the sheet where about a square mile was resketched. The error seemed about a half interval. It seemed unrelated to woodland. The extent of error into the sheet northward indicates a possible model warp, but there is too much woodland to the north to be certain. It is in the same area as the position difficulty. Possibly it is due to a vacuum failure in the camera.

Eighty-one per cent of all shots on the sheet were within a half interval of true elevation and only seven shots were in error over a half interval. When field edit corrections are applied the sheet should comply with National Map Accuracy Standards.

The only criticism of contouring on this sheet might be that the operator seems not to show just how steep the banks along the south shore of the island really are. The field editor has drawn the twenty foot contour closer to mean high water in a number of places.

54. Recommendations:

No recommendations are submitted at this time.

55. Examination of Proof Copy:

Mr. Hays Rehm, County Engineer, County of San Juan, Friday Harbor, Washington has agreed to examine proof copy of the sheet for any obvious errors or omissions.

The spelling of the name Jenson Bay appearing on the sheet should be corrected to JENSEN Bay. The field inspector states that the spelling was checked with records in the County Assessor's office against the name of the man who homesteaded the site. Since the name is common in the area and is always spelled JENSEN the Jenson spelling appeared doubtful. JENSEN is verified by county records, and the field inspector was in error. See also 1897 description of station LOW POINT.

The proper application of the name KANAKA BAY is shown on Field Edit Sheet No. 3. Space is limited but it is misleading as placed at this time.

The 330 hill in the northeast part of Section 34 has no name.

56. Shoreline:

Since the date of Field Inspection and prior to the Field Edit the Ship LESTER JONES has conducted hydrographic surveys all along the

shoreline of this sheet. There are some discrepancies between the topographic and the hydrographic surveys, but we have been assured by *See 564* correspondence with the Washington Office that these discrepancies can be resolved by the photogrammetric and hydrographic reviewers. Accordingly, very limited attention has been given the foreshore during the field edit. Some ledge was added along the south shore to make a more consistent presentation.

57. Boundaries:

There are no local subdivisions to be mapped in this sheet. San Juan County is divided into election precincts which are not mapped.

The south half of the quad is all water, and I do not know whether a manuscript sheet was prepared for it. At any rate, please note that a portion of the international boundary falls within the neat limits of this sheet. (*Boundary added during this review*)^{ENR} *See 567*

Triangulation station PILE POINT REFERENCE MARK was not established as a Reference Mark to station PILE POINT of this Bureau, although its *position* may have been established by this Bureau. At any rate, PILE POINT REFERENCE MARK is a reference mark to points on the international boundary and it happens to have been situated on File Point and taken the name. I am not sure whether a witness to the international boundary should receive a special symbol or not, but this should be checked. It is a cast concrete monument about six feet high and about three feet square at the base.

Approved and forwarded:

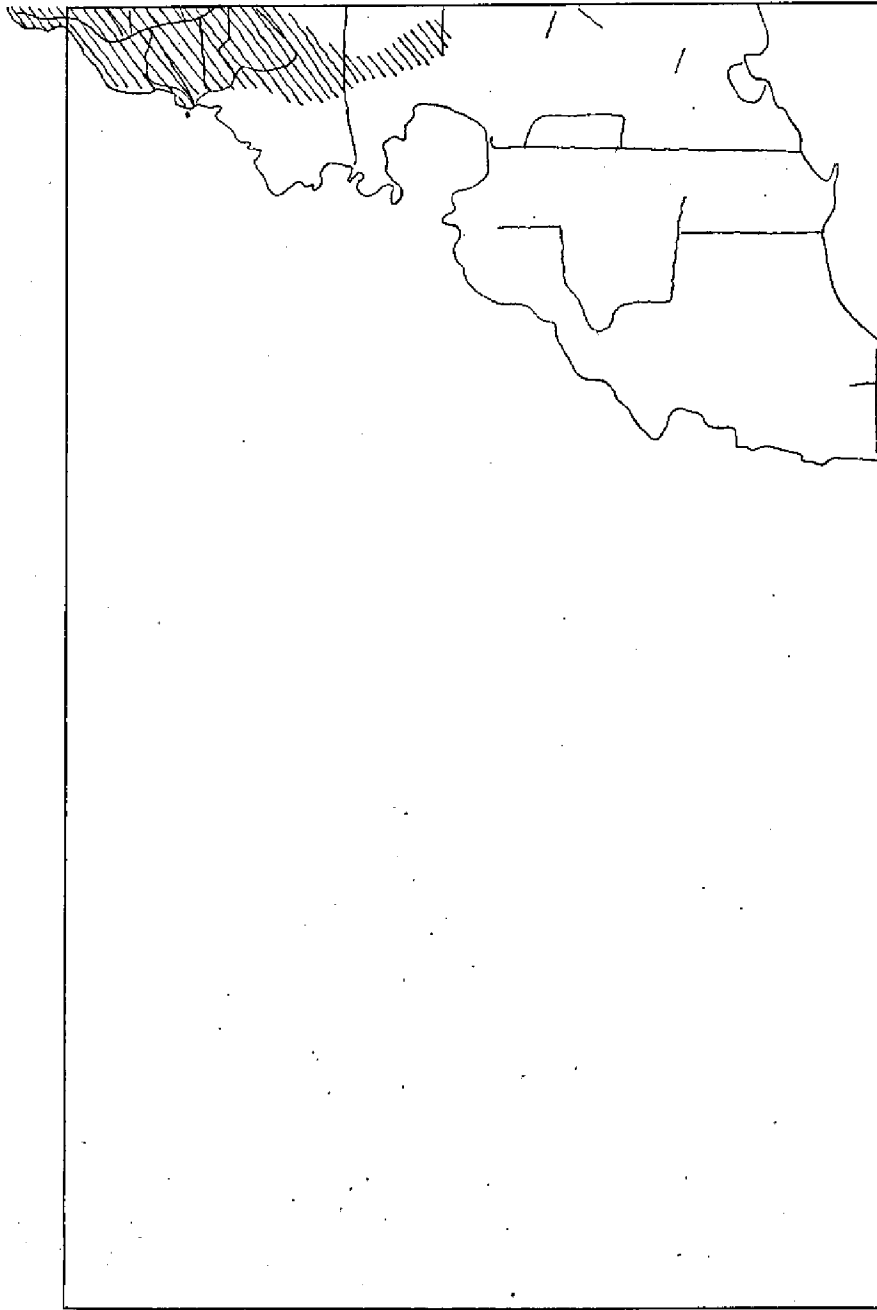


Fred Natella
Comdr., USC&GS
Chief of Party

Respectfully submitted:

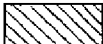


Ray M. Skelton II
Photogrammetric Engineer
USC&GS



T-5592

— Profile for vertical accuracy testing, 18 mis.

 Resketched topography, about 1 sq. mi.

San Juan Island

Test Elev.	Map Elev.	Error	Error after shift	Remarks	Test Elev.	Map Elev.	Error after shift	Remarks
Vicinity of	BM H 237				101	99	-2	0
143	141	-2	0		88	88	0	0
160	159	-1	0		81	82	+1	0
165	165	0	0		72	75	-3	0
167	162	-5	0		53	55	-2	0
Half mile east of	BM H 237				29	32	-3	+1
23	21	-2	-2		11	7	+4	+2
28	23	-5	-5		From T-road east southwest then northwest			
80	65	-15	-12		to BM I. 237			
42	39	-3	-2		222	220	+2	-2
62	42	-20	-20		201	205	-4	+2
From TM 13 east to Jensen Bay					216	218	-2	0
259	250	-9	-9		207	203	+4	-3
184	184	0	0		188	182	+6	-4
177	177	0	0		179	177	+2	-1
155	155	0	0		164	162	+2	-1
147	146	-1	0		165	165	0	0
136	136	0	0		168	165	+3	-3
126	126	0	0		177	170	+7	-7
72	73	-1	0		194	175	+19	-19
50	53	-3	0		163	145	+18	-16
28	28	0	0		95	95	0	0
15	8	+7	+3		72	66	+6	-5
From T-road east 800 feet south of					83	79	+4	-3
BM J 237 east to Griffin Bay.					93	90	+3	-3
219	212	-7	-6		104	104	0	0
221	219	-2	-1		107	107	0	0
219 ^b	210	-9	-9		122	118	+4	-2
220	221	-1	+1		121	121	0	0
208	210	-2	0					
162	162	0	0					
144	123	-21	-20	Missed top.				
92	86	-6	-5					
95	98	-3	+1					
102	101	-1	-1					

Test Elev.	Map Elev.	Error	Remarks	Error after shift	Remarks	Test Elev.	Map Elev.	Error	Error after shift	Remarks
From American Camp			east to sheet edge			227	227	0	0	
thence north and south			along sheet			184	184	0	0	
edge.						175	184	+ 9	+ 7	
202	185	-17		-17		177	172	- 5	- 3	
146	154	+ 8		+ 7		158	165	+ 7	+ 4	
122	133	+ 11		+ 10		132	155	+ 23	+ 19	
113	125	+ 12	Depression	+ 12		105	112	+ 7	+ 3	
124	124	0		0		86	98	+ 12	+ 10	
110	105	- 5		- 4		71	78	+ 7	+ 5	
90	88	- 2		0		48	48	0	0	
72	68	- 4		0		East to west along loop to north of				
50n	48	- 2		0		line preceding.				
10	16	+ 6		+ 5		211	216	+ 5	+ 2	
126	105	- 21		- 20		248	248	0	0	
121	111	- 10		- 9		257	263	+ 6	+ 3	
88	82	- 6		- 5		319	322	+ 3	+ 1	
77	78	+ 1		0		331	325	- 6	- 3	
56	56	0		0		327	323	- 4	- 2	
35	35	0		0		243	281	+ 38	+ 32	
20	20	0		0		240	240	0	0	
From TBM 13 to TBM				17.		249	261	+ 12	+ 9	
195	195	0		0		223	236	+ 13	+ 10	
197	201	+ 4		+ 4		236	245	+ 9	+ 7	
177	181	+ 4		+ 4		237	242	+ 5	+ 3	
178	185	+ 7		+ 7		249	250	+ 1	+ 1	
179	189	+ 10		+ 10		224	222	- 2	0	
157	157	0		0		212	222	+ 10	+ 6	
191	191	0		0		200	202	+ 2	0	
238	243	+ 5		+ 2		198	184	- 14	- 6	
262	265	+ 3		0		170	172	+ 2	0	
280	281	+ 1		+ 1		170	162	- 8	- 6	
305	301	- 4		- 2		140	140	0	0	
257	262	+ 5		+ 5		129	122	- 7	- 4	
221	221	0		0						
253	243	- 10		- 10						

San Juan Island

Test Elev.	Map Elev.	Error	Error after shift	Remarks	Test Elev.	Map Elev.	Error	Error after shift	Remarks
Along north edge of sheet east of					108	97	-11	-10	
EM N 237					102	85	-17	-16	
20	23	+3	+3		83	75	-8	-5	
18	21	+3	+3		40	42	+2	+2	
26	34	+8	+6		57	53	-4	-4	
65	76	+11	+7		61	61	0	0	
96	97	+1	0		51	54	+3	+2	
67	77	+10	+5		49	48	-1	0	
67	67	0	0		29	29	0	0	
31	42	+11	+10		Southeast of EM P 237				
33	41	+8	+7		214	200	-14	-12	
63	78	+15	+13		175	169	-6	-2	
87	90	+3	+2		165	163	-2	-1	
114	105	-9	-9		164	154	-10	-9	
120	104	-16	-16		164	150	-14	-13	
94	101	+7	+6		164	161	-3	-3	
103	102	-1	-1		162	150	-12	-11	
102	99	-3	-3		164	152	-12	-10	
104	104	0	0		168	168	0	0	
123	123	0	0		181	174	-7	-7	
112	118	+6	+5		164	154	-10	-4	
110	99	-11	-11		177	147	-30	-24	
115	99	-16	-16		173	147	-26	-22	
99	99	0	0		Vicinity Barney Mordhorst residence				
110	108	-2	-2		26	14	-12	-11	
126	126	0	0		19	16	-3	-3	
124	124	0	0		35	22	-13	-13	Knoll
148	142	-6	-6		29	22	-7	-7	
147	142	-5	-4		128	122	-6	-4	
From EM P 237 south to Kanaka Bay					135	126	-9	-7	
204	199	-5	-4		141	135	-6	-4	
207	195	-12	-10		147	142	-5	-4	
193	185	-8	-6		154	146	-8	-7	
131	121	-10	-9		167	143	-24	-23	
120	112	-8	-7		143	132	-11	-8	

San Juan Island

Test Elev.	Map Elev.	Error	Error after shift	Remarks	Test Elev.	Map Elev.	Error	Error after shift	Remarks
From BM G 237 south, then north and east to BM.					From Sec. cor. 30, 29, 31, 32 west to MHW				
151	154	+3	0		60	52	-8	-4	
186	182	-4	-4		57	48	-9	-5	
191	182	-9	-8		68	55	-13	-9	
201	183	-18	-18		81	65	-16	-15	
187	187	0	0		94	78	-16	-15	
169	172	+3	+1		102	82	-20	-20	
164	159	-5	-3		105	82	-23	-23	
156	147	-9	-6		42	19	-23	-11	
127	128	+1	0		35	20	-15	-4	
118	118	0	0		From T-road south 1400 feet west of BM				
111	98	-13	-11		Q 237 west along highway to sheet edge.				
91	84	-7	-5		172	170	-2	-2	
85	75	-10	-5		190	185	-5	-4	
62	52	-10	-3		212	202	-10	-8	
65	56	-9	-5		235	230	-5	-4	
75	57	-18	-13		261	251	-10	-6	
78	63	-15	-8		191	193	+2	+2	
106	88	-18	-12		105	96	-9	-8	
102	82	-20	-18		93	88	-5	-4	
136	126	-10	-9		North of West Side Road				
164	156	-8	-5		188	183	-5	-4	
171	170	-1	0		186	190	+4	+4	
171	172	+1	0		185	188	+3	+3	
174	174	0	0		278	250	-28	-18	
Southeast of BM Q 237					3161	298	-13	0	
115	107	-8	-7		323	308	-15	0	
100	92	-8	-7		387	368	-19	-15	
79	72	-7	-6		402	368	-34	-32	
60	59	-1	-1		3000 feet west of BM Q 237 and south of West Side Road				
87	81	-6	-6		188	177	-11	-8	
102	88	-14	-11	Rock outcrop	169	166	-3	0	
126	106	-20	-20	Missed top.	151	137	-14	-12	

TOPOGRAPHIC MAPPING

Summary & Abstract of Vertical Accuracy Test

Project No. ph-26(47) Quad. No. T-5592 Quad. Name _____
 Method of Testing Plane table profiling
 Tested by R.H.S.II Date September 1954 Evaluated by R.H.S.II
 Contour interval 20 ft. 1.22 M.M. allowable shift at 1/10,000
 map or manuscript scale.

- 267 Total number of points tested
81 % of points within $\frac{1}{2}$ contour interval or better
216 Test points correct within $\frac{1}{2}$ contour interval
44 Test points in error between $\frac{1}{2}$ and full contour interval
7 Test points in error over full contour interval

Test Elev.	Map Elev.	Error	Error after shift	Remarks	Test Elev.	Map Elev.	Error	Error after shift	Remarks
113	101	-12	- 8						
From BM R 237 southeast to MHW and return									
231	221	-10	- 4						
223	200	-23	-18						
160	162	+ 2	0						
120	110	-10	0						
76	59	-27	- 8						
93	78	-15	- 5						
49	30	-19	-14						
22	5	-17	-15						
34	11	-25	-16						
59	34	-25	-21						
105	92	-13	0						
110	90	-20	-12						
220	203	-17	- 9						
East from triangulation station EDWARDS 2.									
69	56	-13	- 8						
77	65	-12	-12						
52	30	-22	-13						
70	54	-16	-11						
73	55	-18	-14						
68	44	-24	-20						
71	51	-20	-10						
69	49	-20	-11						
47	42	- 5	0						
28	12	-12	- 8						

C O P Y

78-aal

To: Comdr. Fred Natella
U. S. Coast and Geodetic Survey
405 Custom House
Portland 9, Oregon

Subject: Project Ph-26, Shoreline, T-5592

A reasonably careful inspection of the unverified hydrographic survey smooth sheet H-8085 and a comparison of it with T-5592 does not disclose any discrepancies which cannot be resolved by the hydrographic verifier and the topographic map reviewer. It is true, as you state, that there are some apparent discrepancies between the two surveys and careful attention will be given to them, both during the hydrographic verification and the topographic review. The hydrographic review will be completed in the near future and if any major discrepancies are found which need field investigation, you will be so informed.

You may, therefore, omit a detailed field edit of the fore-shore except for details which may have been changed since the date of the hydrographic survey.

s/ L. W. Swanson

L. W. Swanson, Chief,

Division of Photogrammetry

cc: Skelton

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

~~TO BE CHARTED~~ } STRIKE OUT ONE
~~TO BE DELETED~~

Friday Harbor, Washington 19 54

I recommend that the following objects which ~~HAVE~~ (have not) 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 by Ray E. Shelton III

Fred Catalia

Chief of Party.

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE *		LONGITUDE *		DATUM							
				°	'	°	'								
LEW.	Washington	HYDROGRAPHIC SURVEY MONUMENT 1943, a stone monument 6 feet high. Elevation top of monument above MLLW, 203 feet.		48	27	143	00	1927	LA	1943				0300	
		Note: This object has been charted previously on the edition of chart 6300. It is submitted again at the specific request of the Hydrographic Bureau in view of the discrepancy on the discrepancy overlay for topographic monument 1943.													

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

PHOTOGRAMMETRIC OFFICE REVIEW

T-5592

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

- 27. Roads EP
- 28. Buildings EP
- 29. Railroads _____
- 30. Other cultural features EP

BOUNDARIES

- 31. Boundary lines _____
- 32. Public land lines EP

MISCELLANEOUS

- 33. Geographic names EP
- 34. Junctions EP
- 35. Legibility of the manuscript EP
- 36. Discrepancy overlay _____
- 37. Descriptive Report EP
- 38. Field inspection photographs EP
- 39. Forms EP
- 40. Edward D. Kelle Nancy P. Eichen
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.

Bernice Wilson Nancy P. Eichen
Compiler Supervisor

43. Remarks:

Review Report
Topographic Map T-5592
22 August 1955

62. Comparison with Registered Topographic Surveys:

T-2300	1:10000	1897
T-2301	"	"

There are some differences in the mapping of alongshore rocks between these prior surveys and T-5592. These prior surveys show a considerable amount of bluff which was not mapped on T-5592 except by contours. Alongshore bluff seems typical of practically all shoreline in this area. Except for the possible retention of bluffs, T-5592 ~~should~~^{will} supersede these prior surveys for nautical charting purposes for the area it encompasses.

63. Comparison with Maps of Other Agencies:

False Bay, Washington (C. of E. Road Net Map), 1:62500, 1941

Numerous differences.

64. Comparison with Contemporary Hydrographic Surveys:

H-8084	1:10000	1953
H-8085	"	"

All discrepancies in common features between these surveys and T-5592 were reconciled during this review.

65. Comparison with Nautical Charts:

6380	1:80000	1947, corrected to 52-7/14
------	---------	----------------------------

JENSON BAY on chart should be JENSEN BAY. Chart does not show alongshore rocks in as much detail as is shown on T-5592 and the hydrographic surveys referred to under Item 64.

66. Adequacy of Results and Future Surveys:

This map complies with National Map Accuracy Standards and Bureau requirements.

67. Boundaries:

The Canada-United States boundary was compiled in accordance with IBC Report "Survey and Demarcation of the Boundary between the United States and Canada from the Western Terminus of the Land Boundary along the Forty-Ninth Parallel on the West Side of Point Roberts, Through Georgia, Haro, and Juan De Fuca Straits, to the Pacific Ocean," 1921.

Reviewed by:

Everett H. Ramey
Everett H. Ramey

APPROVED:

L. C. Landy
Chief, Review Section
Photogrammetry Division

Max Brudette
Chief, Nautical Chart Branch
Charts Division

Lee Swanson
Chief, Photogrammetry Division
25 May 62

J. Bowie
Chief, Coastal Surveys Division

48. GEOGRAPHIC NAME LIST

American Camp (Historic Site) ✓

Cattle Point Road ✓

Eagle Cove ✓

Eagle Point ✓

False Bay ✓

False Bay Road ✓

Griffin Bay. ✓

Haro Strait

Jensen Bay ✓ 8-24-51 a.j.w.

Kanaka Bay ✓

Low Point ✓

Mulno Cove ✓

Pile Point ✓

San Juan Island ✓

(Also San Juan Co. ^{state})

West Side Road ✓

United States

Canada

Washington } etc

Names underlined in red are approved, on basis Project Names Report. 4-18-52 L. Heck

Checked & approved

8-24-51

a.j.w.

49. NOTES FOR THE HYDROGRAPHER

The following is a list of recoverable topographic stations within this quadrangle:

~~BEST~~ ^{GABLE ENR}, 1950

FISH, 1950

LASS, (KANAKA BAY TIDAL B.M.1) 1950

~~MART~~ ^{ENR} ^{CHY}, 1950

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NON-FLOATING HARBOUR LANDMARKS FOR CHARTS

TO BE CHARTED ~~TO BE RE-CHARTED~~ STRIKE OUT ONE Baltimore, Maryland 14 Sept. 1951.

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

The positions given have been checked after listing by Edward L. Rolle
Edward L. Rolle

Hubert A. Paton Chief of Party

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
				LATITUDE		LONGITUDE								DATUM
				°	'	°	'							
CHY	Washington	Chimney white house (Chart letter 975(1950))	MART	48 28	1141	123 03	882	N.A. 1927	1950	X		6380		

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating landmarks should be considered for the charts of the area and not for

LIST OF DIRECTIONS

Station Fort, 1897-1950 State Washington

Chief of party C.H. Clark Date 6/26/50

Computed by J.C.L.

Observer J.C. Lajoie Instrument Kern P-36563

Checked by C.H.C.

OBSERVED STATION	Observed direction	Eccentric reduction	Sea level reduction*	Corrected direction with zero initial	Adjusted direction*
	° ' "	' "	"	° ' "	' "
San Juan, 1867	0 00 00.00			0 00 00.00	
R.M. No. 2, 13.579 meters 44.55 feet	26 44 25				
R.M. No. 1, 28.62 meters 93.90 feet	131 27 10				
Flagpole near Picketts Monument, 1943 10.616 meters 34.83 feet	181 42 34				
Picketts Monument, 1943 17.261 meters	*				
* Picketts Monument obstructed by 6-inch diameter flagpole. Direction to Picketts Monument is nearly the same as direction to Flagpole near Picketts Monument.					

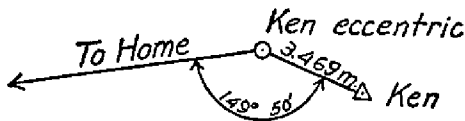
* These columns are for office use and should be left blank in the field.

Station: Ken
 Chief of party: C. V. H.
 Observer: C. V. H.

State: Maryland
 Date: 1917
 Instrument: No. 168

Computed by: O. P. S.
 Checked by: W. F. R.

OBSERVED STATION	Observed direction			Eccentric reduction	Sea level reduction	Corrected direction with zero initial			Adjusted direction
	°	'	"			°	'	"	
Chey	0	00	00.00	-	7.31	0	00	00.00	
Tank west of Δ Dulce	29	03	37.0	-1	09.8	29	02	34.5	
Ken (center), 3.469 meters	176	42							
Forest Glen standpipe	313	24	53.0	+3	01.2	313	28	01.5	
Home	326	31	30.21	+	31.93	326	32	09.45	
Bureau of Standards, wireless pole	352	17	20.8	+	5.7	352	17	33.8	
Reno	357	28	48.63	-	1.16	357	28	54.78	
Reference mark, 16.32 m	358	31	20						



This form, with the first three and fifth columns properly filled out and checked, must be furnished by field parties. To be acceptable it must contain every direction observed at the station.

It should be used for observations with both repeating and direction theodolites.

The directions at only one station should be placed on a page.

If a repeating theodolite is used, do not abstract the angles in tertiary triangulation. The local adjustment corrections (to close horizon only) are to be written in the Horizontal Angle Record, and the List of Directions is to be made from that record directly.

Choose as an initial for Form 24A some station involved in the local adjustment, and preferably one which has been used as an initial for a round of directions on objects not in the main scheme. Use but one initial at a station. Call the direction of the initial 0° 00' 00." 00, and by applying the corrected angles to this, fill in opposite each station its direction reckoned clockwise around the whole circumference regardless of the direction of graduation of the instrument. The clockwise reckoning is necessary for uniformity and to make the directions comparable with azimuths.

If a station has been occupied eccentrically, reduce to the center and enter in this form, in ink, the resulting corrections to the observed directions in the column provided for them. If an eccentric reduction is necessary, but not made in the field, leave the column blank. If the station was occupied centrally, and no eccentric reduction is required, put dashes in the column to show that no corrections are necessary.

Directions in the main scheme should be entered to hundredths of seconds in first-order triangulation; otherwise to tenths only. Points observed upon but once, direct and reverse, should be carried to tenths in first-order and second-order triangulation, and to even seconds only in third-order triangulation. In general, but two uncertain figures should be given.

It is recommended that the following simple plan of observing be used with a repeating instrument: Measure each single angle in the scheme at each station and the outside angle necessary to close the horizon. Measure no sum angles. Follow each measurement of every angle immediately by a measurement of its supplement. Six repetitions are to constitute a measurement. The local adjustment will consist simply of the distribution of the error of closure of the horizon.

History of Hydrographic Information for T-5592

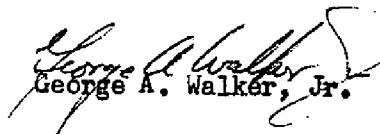
Hydrography was added to the map manuscript in accordance with the Photogrammetry Division General Specifications of 18 May 1949.

Depth curves and soundings are in feet at Mean Lower Low Water datum and originate with the following Coast and Geodetic Survey hydrographic surveys:

<u>Number</u>	<u>Scale</u>	<u>Date of Survey</u>
H-6653	1:40,000	1940-43
6746	1:10,000	1941-43
6818	1:20,000	1942-43
8084	1:10,000	1953
8085	1:10,000	1953

Comparison of hydrography was made to Coast and Geodetic Survey Nautical Chart 6380 corrected to 25 July 1955.

Hydrography was compiled by G. A. Walker, Jr. on 21 October 1955 and verified by O. Svendsen on 28 October 1955.


George A. Walker, Jr.

