7039a 7038a

7039b 7038b

Graphic Control

Diag'd. on diag. ch. No. 5908- 2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Graphic Control

Type of Survey ..... Topographic

Field No.	Office No.
HO-A-47	7038a
HO-B-47	7039b
HO-C-47	7038b
HO-D-47	7039a

LOCALITY

State ..... Oregon

General locality ..... Columbia River

Locality ..... Cathlamet Bay

194 7

CHIEF OF PARTY

E. H. Bernstein

LIBRARY & ARCHIVES

DATE ..... September 17, 1947

8-1879-1 (1)

7038a 7038b 7039a 7039b

Graphic Control

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

REGISTRY No. 7038 a

Field No. HO-A-47

Scale 1:5,000

State Oregon General locality Columbia River

Specific locality Cathlamet Bay

Dates: Survey began April 1947 Completed May 1947

Photography, Supplemented by ground surveys to

Project No. CS-329 Instructions dated 25 February 1947

Vessel / Party* or Hodgson Chief of party E. H. Bernstein

Field work by H.A. Conerly Office work by E. H. Bernstein

Final inking by E. H. Bernstein

Ground elevations / Treetop elevations in feet above { M. H. W. / or / -- (None)

Contours / Approximate contours / Form lines by { Planetable / Multiplex / ---- } Interval ____ ft.

REMARKS For graphic control point location and revision of shore line.

U. S. GOVERNMENT PRINTING OFFICE 16--88129-1

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

10386

REGISTRY No. ~~7040~~

Field No. HO-C-47

Scale 1:5,000

State Oregon General locality Columbia River

Specific locality Cathlamet Bay

Dates: Survey began April 1947 Completed May 1947

Photography, Supplemented by ground surveys to

Project No. CS-329 Instructions dated 25 February 1947

Vessel / Party } or Hodgson Chief of party E. H. Bernstein

Field work by H.A. Conerly Office work by E. H. Bernstein

Final inking by E. H. Bernstein

Ground elevations / Treetop elevations } in feet above { M. H. W. / or / -- (None)

Contours / Approximate contours / Form lines } by { Planetable / Multiplex / ---- } Interval ---- ft.

REMARKS For graphic control point location and revision of shore line.

U. S. GOVERNMENT PRINTING OFFICE 16—38129-1

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

7039 a

REGISTRY No. ~~7041~~

Field No. HO-D-47

Scale 1:10,000

State Oregon General locality Columbia River

Specific locality Cathlamet Bay

Dates: Survey began April 1947 Completed May 1947

Photography, Supplemented by ground surveys to

Project No. CS-329 Instructions dated 25 February 1947

Vessel / ~~Party~~ or Hodgson Chief of party E. H. Bernstein

Field work by H.A. Conerly Office work by E. H. Bernstein

Final inking by E. H. Bernstein

Ground elevations / Treetop elevations in feet above M. H. W. / or / -- (None)

Contours / Approximate contours / Form lines by Planetable / Multiplex / ---------- Interval ---------- ft.

REMARKS For graphic control point location and revision of shore line.

U. S. GOVERNMENT PRINTING OFFICE 16—38129-1

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

REGISTRY No. 7039 6

Field No. HO-B-47

Scale 1:5000

State Oregon General locality Columbia River

Specific locality Cathlamet Bay

Dates: Survey began April 1947 Completed May 1947

Photography, Supplemented by ground surveys to

Project No. CS-329 Instructions dated 25 February 1947

Vessel / ~~Party~~ or Hodgson Chief of party E. H. Bernstein

Field work by H.A. Conerly Office work by E. H. Bernstein

Final inking by E. H. Bernstein

Ground elevations / Treetop elevations in feet above { M. H. W. / or / -- } (None)

Contours / Approximate contours / Form lines by { Planetable / Multiplex / ---- } Interval ____ ft.

REMARKS For graphic control point location and revision of shore line.

U. S. GOVERNMENT PRINTING OFFICE 16--88129-1

TOPOGRAPHIC POSITIONS

Sheet Ho-A-47 T-7038 a

Station	Latitude	D. M. (m)	Longitude	D. P. (m)	
ACE	46° 12'	1450 (403)	123° 45'	479 (812)	476.4 -(809.7)
BAG	46° 12'	1330 (522.5)	123° 45'	508 (778)	
BOX	46° 12'	1113 (739)	123° 45'	596 (690)	
CAT	46° 12'	975 (879)	123° 45'	621 (665)	
CON	46° 12'	849.5 (1003)	123° 45'	688 (598)	
DUO	46° 12'	777 (1075)	123° 45'	741 (545)	
DOG	46° 12'	677.5 (1175)	123° 45'	645 (641)	
DIX	46° 12'	687.5 (1165)	123° 45'	67 (1219)	
END	46° 12'	629.5 (1223)	123° 44'	1027 (259)	
EAR	46° 12'	422 (1431)	123° 45'	571 (715)	
FRY	46° 12'	347 (1506)	123° 45'	112 (1174)	
FEW	46° 12'	348.5 (1504)	123° 44'	1019 (265)	
FAR	46° 12'	261 (1592)	123° 45'	519 (767)	
GAL	46° 12'	102 (1751)	123° 45'	468 (818)	
FAT	46° 12'	14 (1839)	123° 44'	1266 (20)	
HAT	46° 11'	1795 (57.5)	123° 45'	416 (870)	
GAG	46° 11'	1823 (30)	123° 44'	1227 (59)	

Descriptive Report

to accompany

Field Sheets HO-A-47, HO-B-47, HO-C-47, HO-D-47

Cathlamet Bay, Columbia River, Oregon

Project CS-329

March 19, 1947 to June 26, 1947

AUTHORITY:

Instructions, Project CS-329 dated 25 February, 1947.

LIMITS:

The area covered by the topographic sheets by that part of Cathlamet Bay, Columbia River, Chart 6151. Three aluminum sheets T-7038a HO-A-47, T-7039b HO-B-47 and T-7038b HO-C-47, scale of 1:5000 and one similar sheet T-7039a HO-D-47, scale 1:10000.

PURPOSE:

These four sheets were for the establishment of graphic control, revision of shoreline where necessary, and the location of landmarks.

CONTROL:

Only stations BEAR 1905 and MILEPOST 95, 1934, were available for triangulation control, therefore, supplemental triangulation was done to insure strong and adequate triangulation control for all four sheets.

SURVEY METHODS:

Standard planetable methods were used. No traverses were run and all objects were located by graphic triangulation. Sheet T-7038a HO-A-47, the new high water line of the new spoil bank, Lat. 46° 12', Long.,

123° 46.5', was located by set-ups at control stations and one traverse station. The piers and bulkheads at U.S. Naval Station shown on this sheet were delineated from plots furnished by the Public Works Officer. (Drawing Nos. D.P.W. 46-131, 27 May 1946 Bp. 43120 and D.P.W. 46-32, 28 February 1947, Thirteenth Naval District), Bp. 43121 based upon the common points furnished by our topographic stations erected on the northeast corners of seven of the eight piers.

On all of these sheets high water line immediately adjacent to to set-ups at control stations was accurately rodded in, as well as permanent physical features of value in spotting stations on air photographs.

Magnetic azimuths by declinatoire No. 186 were determined at two stations for every sheet. Declinatoire No. 186 was standardized at Magnetic Station Colwood, Portland, Oregon on 20, June 1946.

RECOVERABLE TOPOGRAPHIC STATIONS:

A list of recoverable topographic stations is attached hereto on Form *524. Typed list of scaled positions of control stations common to sheets of different scale are attached to this report. *Not found in files

AIDS TO NAVIGATION:

All aids to navigation were established by triangulation.

LANDMARKS FOR CHARTS:

Lists for "Landmarks for Charts" as well as "Floating" and "Nonfloating aids to Navigation" was furnished with the Hydrographic sheets H-7178, H-7179, and H-7180.

Respectfully submitted,

E.H. Bernstein
Chief of Party

TOPOGRAPHIC POSITIONS

T-7039 9

SHEET HO-D-47

NAME	LATITUDE / LONGITUDE	METERS	NAME	LATITUDE / LONGITUDE	METERS
LUG	46° 13'	782 (1070.5)	LIZ	46° 11'	--- (1087)
	123° 42'	1022 (264.5)		123° 43'	497.5 (789)
PUP	46° 12'	372.5 (1480)	LAD	46° 11'	--- (788)
	123° 39'	--- (150)		123° 43'	628 (658.5)
PIT	46° 12'	703.5 (1149)	KED	46° 11'	--- (288.5)
	123° 40'	304 (982.5)		123° 43'	916 (370.5)
OUT	46° 12'	540.5 (1312)	JOB	46° 11'	--- (121.5)
	123° 41'	181.5 (1105)		123° 43'	1027.5 (259)
OAK	46° 12'	793.0 (1059.5)	MOP	46° 11'	--- (929)
	123° 41'	803.5 (483.0)		123° 43'	1077.5 (209)
NUT	46° 12'	893.5 (959(	KIM	46° 11'	--- (655.5)
	123° 42'	203.5 (1083)		123° 43'	1227 (59.5)
NEO	46° 12'	1056.5 (796)	JUG	46° 11'	--- (390)
	123° 42'	694 (592.5)		123° 44'	81 (---)
MAL	46° 12'	1222 (630.5)	JOY	46° 11'	--- (257)
	123° 42'	907 (379.5)		123° 44'	153.5 (---
JIM	46° 12'	32.5 (1820)			
	123° 43'	1167.5 (119)			
IRK	46° 12'	144 (1708.5)			
	123° 43'	1237.5 (49(			
IVY	46° 12'	216 (1636.5)			
	123° 43'	1248.5 (38)			
JAY	46° 12'	164 (1688.5)			
	123° 44'	40.5 (---)			
ION	46° 12'	5 (1847.5)			
	123° 44'	303 (-----)			
OWL	46° 11'	---- (133)			
	123° 40'	698 (588.5)			
QUO	46° 11'	--- (504)			
	123° 40'	53 (1233.5)			
NIG	46° 11'	--- (491)			
	123° 41'	1105 (181.5)			
MAW	46° 11'	--- (218)			
	123° 42'	660.5 (626)			

RECOVERABLE TOPOGRAPHIC STATIONS

T-7038a

Sheet HO-A-47

NAME	DESCRIPTION	LATITUDE	D.M.(m)		LONGITUDE		D.P. (m)	
LOG	Railway Sign	46° 11'	-----	(1027.0)	123° 45'		312.0	(974.0)
END	Northern most of row of pilings	46° 12'	629.5	(1223.)	125° 44'		1027.	(259)
GEM	White Pile	46° 11'	1705.0	(147.5)	123° 44'		-----	(699.0)
HOP	Pile	46° 11'	1436.5	(416.0)	123° 44'		-----	(849.5)

RECOVERABLE TOPOGRAPHIC STATIONS

T-7038b

Sheet HO-C-47

Name	Description	Latitude	D.M.	(m)	Longitude	D.P.	(m)
RUB	Pile Cluster	46° 10'	743	(1110)	123° 42'	194.5	(1092.5)
RIG	Pile Cluster	46° 10'	731	(1121)	123° 41'	1211	(76)
RAT	Pile Cluster	46° 10'	723	(1130)	123° 41'	956	(332)
SAD	Pile Cluster	46° 10'	729	(1123)	123° 41'	690	(597)
SKY	Pile Cluster	46° 10'	647.5	(1205.0)	123° 41'	478	(809)
SAM	Pile Cluster	46° 10'	855.5	(997.0)	123° 41'	429	(858)
SOW	Pile Cluster	46° 10'	923.0	(930.0)	123° 41'	214	(1073)

RECOVERABLE TOPOGRAPHIC STATIONS
Sheet HO-D-47
T-7039a

Name	Description	Latitude	DM	(m)	Longitude	D.P.	(m)
ION	Single Pile	46° 12'	5	(1847.5)	123° 44'	303	(---)
JOY	Single Pile	46° 11'	---	(257)	123° 44'	153.5	(---)
JUG	Single Pile	46° 11'	---	(390)	123° 44'	81	(---)
KIM	Single Pile	46° 11'	---	(655.5)	123° 43'	1227	(59.5)
MOP	Single Pile	46° 11'	---	(929)	123° 43'	1077.5	(209)
LUG	Pile (tall lone pile)	46° 13'	782	(1070.5)	123° 42'	1022	(264.5)
MAL	Pile	46° 12'	1222	(630.5)	123° 42'	907	(379.5)
NEO	Pile	46° 12'	1056.5	(796)	123° 42'	694	(592.5)
NUT	Pile triangular Target	46° 12'	893.5	(959(	123° 42'	203.5	(1083)
OAK	Pile target facing West.	46° 12'	793	(1059,5)	123° 41'	803.5	(483)
ROT	Pile Cluster	46° 15'	87	(---)	123° 40'	974.5	(312)

RECOVERABLE TOPOGRAPHIC STATIONS

T-7039 b

Sheet Ho-B-47

Name	Description	Latitude	D.M.	(m)	Longitude	D.P.	(m)
LEO	Sign, railway draw span	46° 10'	1731	(122)	123° 44'	856.5	(431)
LIP	Stop sign end of R.R. bridge	46° 10'	1662	(190)	123° 44'	684.5	(603)
PUG	R.R. Sign	46° 10'	410	(1442)	123° 43'	542	(745.5)
PAW	Pile Cluster	46° 10'	815	(1038)	123° 42'	956.5	(331)
RAG	Pile Cluster	46° 10'	780	(1073)	123° 42'	722	(565)
RAM	Pile Cluster	46° 10'	762	(1090)	123° 42'	---	(827.5)

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

T-7038a & b
REGISTRY NO. T-7039a & b

FIELD NO. HO-A,B,C,D-47

Oregon, Columbia River, Cathlamet Bay
Surveyed in April and May, 1947

Scale 1:5,000
1:10,000(T-7039a)

Project No. CS-329

Graphic Control

Aluminum Mounted

Chief of Party - E. H. Bernstein
Surveyed by - H. A. Conerly
Inked by - E. H. Bernstein
Reviewed by - G. F. Jordan, October 14, 1948
Inspected by - R. H. Carstens

1. These graphic control surveys provided signal control for contemporary hydrographic surveys executed by the same chief of party. The control is adequately described in the Descriptive Report.

2. Piles, shoreline and some structures are shown where revisions of the plane table surveys of 1935, T-6387a and T-6387b, were necessary. These revisions included the newly formed spoil bank named Mott Island on H-7038a and the piers to the westward which were delineated from drawings furnished by the Public Works Officer of the U. S. Naval Station (Bps. 43120, 43121).

3. These surveys have been compared with T-6387a and T-6387b of 1935 and with Charts 6151 and 6152. Topographic features are considered in detail in the reviews of H-7178, H-7179 and 7180 (1947) and require no further consideration in this review.

4. The magnetic azimuths determined at nine points in the area by a declinatoire which was standardized in 1946 vary from 1° 20' less to 1° more than the charted value. These observed values indicate the absence of any large local magnetic disturbances.

NAUTICAL CHARTS BRANCH

T 7038a, T 70386

SURVEY NO. T 7039a, T 70396

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
10/9/47	6151	L.A. McGann	~~Before After~~ ~~Verification and Review~~ U.S.C. Survey completely applied.
6/10/48	6152	Pisegari	~~Before After~~ ~~Verification and Review~~ completely applied T.70386
6/10/48	6152	Pisegari	" " T.7039a
			Before After Verification and Review
7/10/50	6002	Goodrich	~~Before~~ After Verification and Review Examined — no correction
7/25/50	"	Wittmann	applied thru 6151
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.