7026 7027 7028
7029 7030
a&b

Graphic [redacted]

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Graphic [redacted]

Type of Survey Topographic

Field No. WE-D-46, WE-E-46, WE-F-46, WE-G-46, WE-H-46, WE-I-46, WE-J-46, WE-K-46, HO-E-47

Office No. T-7026b, T-7027a, T-7027b, T-7028a, T-7028b, T-7029a, T-7029b, T-7030a, T-7030b

LOCALITY

State Oregon & Washington

General locality Columbia River

Locality Vancouver, Washington to Bonneville, Oregon

194 6 & 47

CHIEF OF PARTY

E. H. Bernstein

LIBRARY & ARCHIVES

DATE APR 30 1948

B-1870-1 (1)

7026-7027-7028-7029-7030 a&b

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T7026b
Graphic Control

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. T-7026b

Field No. WE-D-46

Scale 1:10000

State Oregon - Washington General locality Columbia River

Specific locality Troutdale, Oregon

Dates: Survey began June 26, 1946 Completed July 1, 1946

Photography _____, Supplemented by ground surveys to _____

Project No. CS-325 Instructions dated May 14, 1946

Vessel / ~~Party~~ } ~~or~~ Ship WESTDAHL Chief of party E. H. Bernstein

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

Final inking by E. H. Bernstein and A. M. Legako

Ground elevations / Treetop elevations } in feet above { M. H. W. or _____

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

REMARKS This graphic control survey has been compared with the contemporary Hydrographic Survey. No further review by the Hydrographic Surveys Section is necessary at this time.

5/25/51 [illegible]

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.

REG. NO. - 7027a GRAPHIC CONTROL

REGISTRY No. T-7027a

Field No. WE-E-46

Scale 1:10000

State Oregon -Washington General locality Columbia River

Specific locality Ellsworth, Washington

Dates: Survey began June 26, 1946 Completed July 1, 1946

Photography, Supplemented by ground surveys to

Project No. CS-325 Instructions dated May 14, 1946

Vessel / ~~Party~~ or Ship WESTDAHL M. E. Wennermark Chief of party E. H. Bernstein

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

Final inking by E. H. Bernstein and A. M. Legako

Ground elevations / Treetop elevations in feet above M. H. W. or

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

REMARKS Compared on [illegible] 30 by [illegible] 5/25/51

Compared with H-7129 (1946-48) [illegible] 3/3/53

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

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

REG. NO. 7027b GRAPHIC CONTROL

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. T-7027b

Field No. WE-F-46

Scale 1:10000

State Oregon - Washington General locality Columbia River

Specific locality East of Vancouver, Washington

Dates: Survey began Aug. 1, 1946 Completed Aug. 31, 1946

Photography _____, Supplemented by ground surveys to _____

Project No. CS-325 Instructions dated May 14, 1946

Vessel ~~Party~~ ~~ex~~ Ship HODGSON Chief of party E. H. Bernstein

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

Final inking by E. H. Bernstein and A. M. Legako

Ground elevations / Treetop elevations in feet above M. H. W. or _____

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

REMARKS Compared with H-7129 (1946-48) [illegible] 3-3-53

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

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T7028a
Graphic Control

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. T-7028a

Field No. WE-G-46

Scale 1:10000

State Oregon-Washington General locality Columbia River

Specific locality Washougal, Washington

Dates: Survey began Sept. 6, 1946 Completed Sept. 17, 1946

Photography _____, Supplemented by ground surveys to _____

Project No. CS-325 Instructions dated May 14, 1946

Vessel / ~~Party~~ } ~~or~~ Ship WESTWIND Chief of party E. H. Bernstein

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

Final inking by E. H. Bernstein and A. L. Legako

Ground elevations / Treetop elevations } in feet above { M. H. W. / or / _____

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

REMARKS Compared with H-7131 (1946) JAD 6-25-51

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T7028 b
Graphic Control

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. T-7028b

Field No. WE-H-46

Scale 1:10000

State Oregon - Washington General locality Columbia River

Specific locality Reed Island, Washington

Dates: Survey began Aug. 20, 1946 Completed September 17, 1946

Photography, Supplemented by ground surveys to

Project No. CS-325 Instructions dated May 14, 1946

Vessel ~~or~~ Ship WESTDAHL Chief of party E. H. Bernstein

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

Final inking by E. H. Bernstein and A. M. Legako

Ground elevations / Treetop elevations in feet above M. H. W. or

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

REMARKS Compared with H-7132 (1947). JAD 5-23-51
" " H-7131 (1946) JAD 6-25-51

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

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

T7029a

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. T-7029a

Field No. WE-1-46

Scale 1:10000

State Oregon - Washington General locality Columbia River

Specific locality Cape Horn, Washington

Dates: Survey began Dec. 1, 1946 Completed Dec. 31, 1946

Photography _____, Supplemented by ground surveys to _____

Project No. CS-325 Instructions dated May 14, 1946

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

Field work by M. E. Wennermark Office work by Field party

Final inking by E. H. Bernstein and A. M. Legako

Ground elevations / Treetop elevations in feet above M. H. W. or _____

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

REMARKS Compared with T-7122(1947). No further review necessary. J. A. Dinsmore 5-23-51

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T7029 b

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. T-7029b

Field No. WE-J-46

Scale 1:10000

State Oregon - Washington General locality Columbia River

Specific locality Oneonta, Washington

Dates: Survey began Dec. 6, 1946 ~~Aug. 14, 1947~~ Completed Dec. 7, 1946 ~~Aug. 15, 1947~~

Photography, Supplemented by ground surveys to

Project No. CS-325 Instructions dated ~~May 14, 1946~~

Vessel / ~~Party~~ } ~~or~~ Ship HODGSON / M. E. Wennermark Chief of party E. H. Bernstein

Field work by R. M. Stone Office work by ~~R. M. Stone and field party~~

Final inking by ~~R. M. Stone and field party~~

Ground elevations / Treetop elevations } in feet above { M. H. W. / or / ----

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

REMARKS Compared with H-7132 (1947). No further review necessary. J.A. Dinsmore 5-23-51

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T7030a

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. T-7030

Field No. WE-K-46

Scale 1:10000

State Oregon - Washington General locality Columbia River

Specific locality Warrendale, Oregon

Dates: Survey began Aug. 15, 1947 Completed Aug. 21, 1947

Photography _____, Supplemented by ground surveys to _____

Project No. CS-325 Instructions dated May 14, 1946

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

Field work by R. M. Stone Office work by R. M. Stone and field party

Final inking by R. M. Stone and field party

Ground elevations / Treetop elevations in feet above M. H. W. or _____

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

REMARKS _____

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

Form 537a
Ed. Nov. 1929

T7030 b

REG. NO.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. Ho-E-47

7030

REGISTER NO.

State Oregon-Washington

General locality Columbia River

Locality Bonneville

Scale 1/5000 Date of survey , 1947

Vessel HODGSON

Chief of party E.H.Bernstein

Surveyed by R.M.Stone

Inked by R.M.Stone

Heights in feet above ' to ground " to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated CS 325 22/MEK S-1-WE 14 May , 1946

Remarks:

GPO

Descriptive Report

to accompany Topographic Sheets

(WE-D-46) - T-7026b
(WE-E-46) - T-7027a
(WE-F-46) - T-7027b
(WE-G-46) - T-7028a
(WE-H-46) - T-7028b
(WE-I-46) - T-7029a
(WE-J-46) - T-7029b
(WE-K-46) - T-7030
(HO-E-47) - ~~T-7052 (should be~~ T-7030b)

VAD 5-23-51

Columbia River,
Vancouver, Washington to Bonneville, Oregon

Project CS-325

24 June 1946 to 14 October 1947

AUTHORITY:

Instructions, Project CS-325, Ref. 22/MEK S-1-WE dated 14 May 1946.

LIMITS:

All of the sheets covered by this report are on the scale of 1:10000 except HO-E-47 (T 7030 b ~~T-7052~~), which is to the scale of 1:5000.

Sheet No.	Lat.	Long.
WE-F-46	45°34!7 to 45° 37!9	122°33!3 to 122°41!3
WE-E-46	45°33!3 to 45° 36!4	122°28!0 to 122°33!6
WE-D-46	45°32!7 to 45° 35!8	122°23!1 to 122°29!0
WE-G-46	45°31!9 to 45° 35!1	122°18!8 to 122°24!6
WE-H-46	45°32!3 to 45° 35!5	122°13!1 to 122°19!0
WE-I-46	45°32!9 to 45° 36!0	122°07!0 to 122°13!5
WE-J-46	45°34!6 to 45° 37!6	122°01!9 to 122°07.8
WE-K-46	45°35!9 to 45° 39!1	121°56!4 to 122°02!3
HO-E-47	45°37!7 to 45° 39!3	121°55!0 to 121°57!9

PURPOSE:

These topographic sheets are for the establishment of graphic control, location of landmarks, and aids to navigation.

CONTROL:

Sheets WE-D-46, E, and F were partially controlled by photogrammetric positions furnished by the Portland Photogrammetric Office, these being

insufficient for hydrographic control additional points were located. No photogrammetric points were available for the region upstream from Camas, Washington. Sufficient triangulation points were recovered in all reaches of the river except for the slough south of Government Island, the slough north of Reed Island, and the stretch of river from Oneonta Falls to Pierce Island, where additional triangulation control was established. The control was adequate for establishing all topographic control by direct cuts from triangulation points, without the use of any traversing.

Because sheets WE-D, E and F were done on a scale of 1:10,000, whereas the hydrography was done on a scale of 1:8000 all topographic points on these three sheets were scaled and properly adjusted. The hydrography and topography being done on the same scales, this was not necessary.

SURVEY METHODS:

Standard planetable methods were used. All objects were located by graphic triangulation and no traverses were run. No shoreline was located on any of the sheets since the shoreline has been or will be located by photogrammetric methods. The floats and piling established in Long. 122° 36!0 and 122° 38!1 were located by planetable methods since the improvements were established after the completion of the photogrammetric plotting.

Magnetic azimuths by declinatoire No. 186 were determined at least at two points on every sheet and sometimes at three or more points. These declinatoires were standardized at magnetic station COLWOOD, Portland, Oregon, on 20 June 1946.

RECOVERABLE TOPOGRAPHIC STATIONS:

Typed lists of scaled positions of control stations downstream from Camas, Washington, are attached to this report. Recoverable topographic stations have been described on Form 524. Lists of planetable positions are attached to the hydrographic sheets that are covered by the topographic sheets. ~~Note new position for photogrammetric position of station MUG.~~

AIDS TO NAVIGATION:

Positions of Aids to Navigation that were not located by triangulation, were determined by graphic triangulation. Positions of Floating Aids to Navigation were additionally determined by hydrographic methods.

LANDMARKS FOR CHARTS:

Lists for "Landmarks for Charts" as well as "Floating" and "Nonfloating Aids to Navigation" are furnished with the descriptive report of hydrographic sheets Registry No. H-7129 to HO-05347 (H7123).

NEW PLACE NAMES:

The field parties made continuous effort to verify local place names. The names shown on Chart No. 6156 are correct. However, in future charting the name "Little Sandy River" on the Oregon side, south of Camas, Washington, should be deleted and "Sandy River" substituted. The northeastern mouth of Sandy River has been shut off by a jetty dam and is no longer navigable and being filled completely by sedimentation.

The arrowhead-shaped island, lying 1/2 mile to eastward of Pierce Island in Long. 121° 59!5 is known locally, definitely as "IVES ISLAND". No local name for the elliptical island in Long. 122° 07!0 could be determined, however, research by the photogrammetric party may discover its local name.

RANGE BEARINGS:

The bearings of all ranges between Vancouver & Camas, Washington, are accurately plotted on the topographic sheets from many carefully taken hydrographic fixes during the course of the hydrography. It was not feasible to make planetable setups on any of these ranges. The main ship channel ranges were accurately checked by bearings taken from the "Ship" over the gyro compass.

Respectfully submitted,

E. H. Bernstein, Lt.Comdr., USC&GS
Commanding Ship HODGSON

TOPOGRAPIC POSITIONS
for
SHEET 08146

NAME	LAT	ADJUSTED D.M.	LONG	ADJUSTED D.P.
MAY	45°-34'	109.0	122°-26'	709.1
		1743.4		592.0
OHI	45°-34'	39.0	122°-28'	1124.1
		1813.4		177.0
GIN	45°-33'	929.2	122°-27'	877.4
		923.2		424.1
OWL	45°-33'	1350.4	122°-30'	65.0
		502.9		1236.5
PUP	45°-33'	1632.4	122°-30'	744.3
		220.0		557.2
ROY	45°-33'	1793.4	122°-31'	365.1
		59.0		936.4
ZAG	45°-34'	576.1	122°-31'	510.0
		1285.3		791.1
JAR	45°-33'	971.9	122°-27'	360.1
		880.5		921.4
ABE	45°-33'	1003.4	122°-27'	1257.6
		849.0		43.9
BAG	45°-33'	1033.8	122°-28'	107.0
		810.6		1194.5
CAD	45°-33'	1209.2	122°-28'	534.2
		823.2		767.3
DAW	45°-33'	1032.3	122°-28'	900.0
		820.1		401.5
HEL	45°-33'	1538.4	122°-27'	1024.5
		314.0		277.0
BAT	45°-33'	1628.5	122°-28'	100.5
		223.9		1201.0
PAR	45°-33'	1310.3	122°-28'	9.0
		542.1		1292.5
TIL	45°-33'	1690.7	122°-28'	333.0
		161.7		968.5
CAS	45°-33'	1342.4	122°-28'	375.6
		510.0		925.9
ICE	45°-33'	1672.6	122°-28'	822.4
		179.8		479.1
KED	45°-33'	1612.3	122°-28'	1100.1
		240.1		201.4

TOPOGRAFIC POSITIONS
for
SHEET No. 08146

NAME	LAT	ADJUSTED D.M.	LONG	ADJUSTED D.P.
JAP	45°-33′	1583.2	122°-26′	1266.5
		269.2		35.0
LIZ	45°-34′	219.9	122°-27′	840.6
		1632.5		460.5
MAX	45°-34′	180.0	122°-28′	82.0
		1672.4		1219.1
MAL	45°-33′	1165.2	122°-29′	150.0
		687.2		1151.5
NED	45°-33′	1266.3	122°-29′	897.4
		586.1		404.1
SOW	45°-33′	1841.2	122°-29′	246.0
		11.2		1055.5
TAP	45°-34′	98.0	122°-29′	842.1
		1754.4		459.0
VAL	45°-34′	183.0	122°-30′	57.0
		1669.4		1244.5
WAX	45°-34′	322.0	122°-30′	56.6
		1530.4		744.5

TOPOGRAFIC POSITIONS

NAME	LAT	ADJUSTED D.M.	LONG	ADJUSTED D.P.
ADA	45°-33'	1817.1	122°-23'	297.8
		35.3		1003.3
RAT	45°-33'	1699.4	122°-23'	———
		153.0		35.5
RUG	45°-33'	1792.0	122°-24'	283.1
		60.4		1018.0
DEL	45°-33'	1649.8	122°-24'	996.1
		202.6		305.0
TOM	45°-33'	1523.7	122°-25'	83.5
		328.7		1217.6
RUB	45°-33'	1443.7	122°-25'	390.4
		408.7		910.7
HOP	45°-33'	1404.8	122°-25'	730.7
		447.6		570.5
WIG	45°-33'	1203.9	122°-26'	999.7
		648.5		301.5
SHE	45°-33'	1819.5	122°-27'	145.8
		32.9		1553.3
FIX	45°-34'	395.4	122°-25'	726.0
		1456.9		575.4
TAN	45°-34'	662.1	122°-27'	252.6
		1190.2		1048.4
PIT	45°-34'	1431.4	122°-24'	840.3
		420.9		460.5
WHY	45°-34'	428.6	122°-24'	1121.5
		1423.7		179.5
RED	45°-33'	1618.7	122°-23'	———
		233.6		312.0
IDA	45°-33'	1658.0	122°-23'	———
		194.3		559.5
BAT	45°-33'	1847.2	122°-23'	———
		5.1		425.0
OAK	45°-34'	1267.2	122°-23'	391.9
		585.1		909.0
BON	45°-34'	61.8	122°-23'	744.1
		1790.5		557.0
BEE	45°-34'	1477.0	122°-27'	598.5
		375.3		702.3
KID	45°-34'	1031.5	122°-27'	831.3
		820.8		469.6
NON	45°-34'	1169.6	122°-27'	1057.8
		682.7		243.1
PIE	45°-34'	1553.6	122°-27'	883.0
		298.7		417.8
DOG	45°-34'	1659.7	122°-27'	———
~~/DIESEL/ STACK~~	4	192.6		1152.1

TOPOGRAFIC POSITIONS

NAME	LAT	ADJUSTED D.M.	LONG	ADJUSTED D.P.
DIESEL STACK	45°-35'	166.0	122°-24'	530.9
STACK-W	45°-35'	77.0	122°-24'	779.8 622.1
STACK-E	45°-35'	81.0	122°-24'	678.6 612.3
SKY	45°-33'	755.6 1096.7	122°-23'	688.4 1133.6
LOG	45°-34'	994.5 857.8	122°-25'	167.7 844.0
LAX	45°-34'	935.5 898.8	122°-25'	450.0 901.5
PEG	45°-34'	922.7 926.6	122°-25'	399.4 1073.7
SAM	45°-34'	847.0 1005.3	122°-26'	227.2 104.0
LEG	45°-34'	1034.6 817.7	122°-25'	1194.0 106.9
TOY	45°-34'	1119.8 732.5	122°-26'	399.5 901.4
END	45°-34'	925.1 927.2	122°-26'	654.0 646.9
ARK	45°-34'	1168.0 684.3	122°-26'	746.3 554.6
RUM	45°-34'	1317.2 535.1	122°-27'	57.3 1243.5
DON	45°-34'	1380.5 471.8	122°-27'	321.4 979.4
TUB	45°-34'	1463.0 389.3	122°-24'	524.0 776.0
LOP	45°-34'	1654.1 198.2	122°-24'	318.5 982.2
JUG	45°-34'	1676.0 97.5	122°-24'	652.2 648.5
OFF	45°-34'	1492.4 359.9	122°-24'	989.7 311.1
TRY	45°-34'	1308.2 544.1	122°-25'	10.0 1290.0
HID	45°-34'	1453.3 399.0	122°-25'	27.6 1275.2
ERG	45°-34'	1373.6 478.7	122°-25'	182.2 1118.6
SOL	45°-34'	1206.0 646.3	122°-25'	394.8 906.1
PRO	45°-34'	1221.4 630.9	122°-25'	734.3 566.5
YAM	45°-34'	1178.7 637.6	122°-25'	765.1 535.7

TOPOGRAFIC POSITIONS

NAME	LAT	ADJUSTED D.M.	LONG	ADJUSTED D.P.
BIG	45°-34′	113.3	122°-23′	1038.1
		1739.0		263.0
BOX	45°-34′	631.4	122°-24′	-------
		1220.9		40.0
PAR	45°-34′	1181.2	122°-23′	-------
		671.1		731.0
DUO	45°-34′	1190.7	122°-23′	911.6
		661.6		389.0
WAS	45°-34′	1335.4	122°-23′	-------
		517.0		121.0
DOT	45°-34′	969.2	122°-24′	121.5
		883.2		1179.4
GAL	45°-34′	1237.9	122°-24′	243.8
		614.5		1057.0
HOE	45°-34′	1609.0	122°-24′	223.7
		243.4		1077.0

TOPOGRAFIC POSITIONS

NAME	LAT	ADJUSTED D.M.	LOND	ADJUSTED D.P.
TALL	45°-35'	239.1 (1613.3)	122°-29'	650.1 (650.6)
WIT	45°-35'	291.7 (1560.7)	122°-29'	893.9 (406.8)
ELF	45°-35'	299.1 (1553.3)	122°-29'	927.0 (373.7)
GEO	45°-35'	362.0 (1490.4)	122°-29'	1228.3 (72.4)
EYE	45°-35'	521.0 (1331.4)	122°-30'	548.3 (752.3)
DIX	45°-35'	586.7 (1265.7)	122°-30'	694.7 (605.9)
FAT	45°-34'	657.0 (1195.4)	122°-27'	1106.8 (134.1)
DIM	45°-34'	620.6 (1231.6)	122°-27'	1035.0 (265.9)
RUE	45°-34'	875.5 (976.9)	122°-27'	858.9 (442.0)
BUD	45°-34'	1041.0 (811.4)	122°-27'	1031.8 (269.1)
EGG	45°-34'	1728.9 (123.5)	122°-28'	136.4 (1164.3)
NEW	45°-34'	686.0 (1166.4)	122°-27'	644.5 (655.5)
CAN No. 1	45°-34'	1494.6 (357.8)	122°-27'	1179.2 (121.6)
CAN No. 3	45°-34'	1378.0 (474.4)	122°-27'	997.5 (303.3)
FLY	45°-34'	917.0 (935.4)	122°-28'	159.5 (1141.4)
ZAG	45°-34'	1165.2 (687.2)	122°-28'	693.1 (607.8)
ORB	45°-34'	1217.9 (634.5)	122°-28'	1175.8 (125.0)
DUO QUO	45°-35'	77.5 (------)	122°-28'	879.2 (421.5)
NIL	45°-34'	1288.8 (563.6)	122°-29'	96.2 (1204.6)
SUB	45°-34'	1466.7 (385.7)	122°-29'	746.0 (554.8)
RAG	45°-34'	1599.7 (252.7)	122°-30'	02.5 (1298.2)
PIN	45°-34'	1733.7 (118.7)	122°-30'	692.7 (608.0)

TOPOGRAFIC POSITIONS
for SHEET 08246

NAME	LAT	ADJUSTED D.N.	LONG	ADJUSTED D.P.
NUT	45°-35'	649.1 (1203.3)	122°-33'	443.7 (857.0)
PUG	45°-35'	474.1 (1378.3)	122°-33'	900.4 (400.5)
RUM	45°-35'	205.0 (1647.4)	122°-33'	1107.0 (193.7)
HEX	45°-34'	986.2 (866.2)	122°-32'	1083.1 (218.0)
JAR	45°-34'	1473.2 (379.2)	122°-33'	94.0 (1207.1)
KIM	45°-34'	1709.4 (143.9)	122°-33'	689.1 (612.0)
LUG	45°-34'	20.0 (1832.4)	122°-33'	579.0 (722.0)
LOO	45°-35'	289.0 (1563.4)	122°-33'	79.0 (1222.0)
COD	45°-34'	1059.2 (793.2)	122°-32'	124.0 (1177.1)
DIP	45°-34'	444.1 (1408.3)	122°-32'	271.0 (1030.1)
EGG	45°-34'	591.1 (1261.3)	122°-32'	601.1 (700.0)
FOX	45°-34'	1349.3 (503.1)	122°-32'	491.0 (810.1)
GUS	45°-34'	1751.4 (101.0)	122°-32'	931.1 (370.0)
ORA	45°-35'	874.2 (978.2)	122°-33'	738.4 (562.3)
ZAG	45°-34'	567.1 (128.5)	122°-31'	510.1 (791.9)
ROY	45°-35'	1793.4 (59.0)	122°-31'	365.1 (936.4)
ALP	45°-34'	133.0 (1719.4)	122°-31'	962.1 (339.0)
BED	45°-34'	806.2 (1046.2)	122°-31'	1036.6 (264.5)

For SHEET No. 1346
TOPOGRAFIC POSITIONS

NAME	LAT.	ADJUSTED D.M.	LONG.	ADJUSTED D.P.
MAR	45° 35'	95.5 (1756.9)	122°-31'	378.2 (922.5)
WIN	45° 35'	276.0 1576.4	122°-31'	552.2 748.5
GOB	45° 35'	821.8 1030.6	122°-31'	188.8 1119.8
GEM	45° 35'	1060.8 791.6	122°-31'	805.1 495.4
PIX	45° 35'	218.9 1633.5	122°-31'	1132.4 168.3
OUT	45° 35'	490.0 1362.4	122°-31'	1300.1 0.5
WEE	45° 35'	175.9 1676.5	122°-32'	128.5 1172.2
MAX	45° 35'	1448.4 404.0	122°-32'	430.9 869.6
EAT	45° 35'	932.0 920.4	122°-32'	854.6 445.9
SOL	45° 35'	1526.0 326.4	122°-32'	655.5 644.9
ADD	45° 35'	1154.6 697.8	122°-32'	1128.2 172.3
RAT	45° 35'	1643.9 208.5	122°-32'	1036.1 264.3
KID	45° 35'	1266.4 586.0	122°-33'	287.0 /////
RAM	45° 35'	1217.3 635.1	122°-33'	479.9 /////
LOW	45° 35'	1834.3 18.1	122°-33'	299.0 /////
OFF	45° 35'	1209.0 643.4	122°-33'	886.0 /////
SWAG LOG	45° 35'	1102.9 749.5	122°-33'	861.4 /////
PEG	45° 36'	63.3 //////	122°-33'	580.2 /////

SHEET WE*F*46

TOPOGRAFIC POSITIONS

NAME	LAT	ADJUSTED D.M.	LONG	ADJUSTED D.P.
LUX	45°-36'	113.7	122° 38'	725.1
		(1738.7)		(575.3)
JUT	45°-36'	131.6	38'	594.3
		1716.0		706.1
ACE	45°-36'	349.3	38'	28.8
		1503.1		1271.5
RIM	45°-36'	97.0	37'	1076.4
		1755.4		224.0
BAT	45°-36'	269.7	37'	378.5
		1582.7		921.8
ELF	45°-36'	122.2	37'	32.1
		1730.2		1268.3
CAR	45°-36'	282.8	36'	830.0
		1569.6		470.4
FLY	45°-36'	08.0	36'	501.6
		1844.4		798.8
ARM	45°-36'	11.1	36'	71.0
		1841.3		1229.4
DUD	45°-36'	133.8	35'	1218.0
		1718.6		82.4
PRO	45°-36'	256.3	33'	
		1596.1		205.5
MAY	45°-36'	539.2	34'	672.8
		1313.2		627.5
PET	45°-36'	610.5	34'	1040.4
		1214.7		260.0
SHE	45°-36'	965.5	36'	05.0
		886.9		1295.2
DIP (LIP)	45°-36'	1053.2	36'	470.4
		799.2		829.8
GUM	45°-36'	1132.3	37'	121.8
		720.1		1178.4
SUD	45°-36'	1293.4	37'	698.1
		558.8		602.0
FIT	45°-36'	1363.0	38'	231.7
		489.4		1068.4
RIP	45°-36'	1286.9	38'	614.8
		565.5		685.3
CAN BUOY No. 1	45°-36'	647.3	35'	391.0
		1205.1		909.3
DUO	45°-35'	968.6	34'	120.8
		883.8		1179.7
SUE	45°-35'	605.5	34'	254.0
		1246.9		1046.6
TIP	45°-35'	707.7	34'	524.5
		1144.7		776.1
CAR No. 3	45°-36'	339.9	34'	520.1
		1512.5		780.2

SHEET WE-F-46-(con).

TOPOGRAFIC POSITIONS.

NAME	LAT	ADJUSTED D.M.	LONG	ADJUSTED D.P.
MID	45°-35'	1212.4	122° 34'	323.6
		(640.0)		(976.9)
LOG	45°-35'	1513.0	34°	240.8
		339.4		1059.7
LAY	45°-35'	896.4	34°	1129.1
		956.0		171.5
PIT	45°-35'	1072.8	34°	1197.4
		779.6		103.1
TRY	45°-35'	1306.0	35°	293.6
		546.4		1006.9
COW	45°-35'	1339.5	35°	614.3
		512.9		686.2
BOX	45°-35'	1611.1	35°	873.6
		241.3		426.8
VERT BEAM	45°-35'	1794.7	36°	450.0
SEARCHLIGHT		57.7		850.4
PEG	45°-36'	73.6	33°	———
		1778.8		718.0
CAN No. 5	45°-35'	1758.8	33°	———
		93.6		989.0

SHEET WE* B 46

TOPOGRAFIC POSITIONS

NAME	LAT	ADJUSTED D.M.	LONG	ADJUSTED D.P.
SUM	45° 36°-15'	550.2	122° 40°-15'	671.6
	36°-45'	1302.2	40°-45'	628.7
NIP	36°-15'	729.6	40°-15'	954.5
	36°-45'	1122.7	41°-15'	345.8
OIL	36°-15'	808.5	40°-45'	1214.6
	36°-45'	1043.9	41°-15'	85.6
BOY	36°-15'	927.5	40°-45'	1107.8
	36°-45'	924.9	41°-15'	1192.4
KEY	36°-15'	1063.6	40°-45'	1249.8
	36°-45'	788.7	41°-15'	50.4
JANT	36°-15'	1153.5	40°-45'	1282.6
	36°-45'	698.9	41°-15'	17.6
LUX	36°-15'	971.8	40°-15'	1037.8
	36-45'	880.6	40°-45'	262.4
			41°-15'	
MUG	36°-15'	1019.2	40°-15'	821.2
	36°-45'	833.2	41°-15'	479.0
RAT	36°-15'	799.7	40°-15'	441.3
	36°-45'	1072.7	40-45'	858.9
ICE	36°-15'	1207.5	41°-00'	145.6
	36°-45'	644.8	41-15'	1154.6

TOPOGRAPHIC POSITIONS

Sheet No. WE-~~H~~G-46 (T-7028a)

Name of station	Latitude	Adjusted D.M.	Longitude	Adjusted D.P.
DOC	45 34	(679.2) 1173.2	122 22	(720.2) 581.0
HAT (Lt.)	45 33	(710.0) 1142.3	122 20	(319.5) 982.0
ICE (Lt.)	45 33	(1171.5) 680.8	122 20	(568.0) 733.5
JAR (Lt.)	45 33	(1636.5) 215.8	122 20	(893.8) 407.7
LEG (Lt.)	45 32	(159.0) 1693.4	122 20	(1293.4) 08.5
LOG	45 32	(477.1) 1375.2	122 19	(434.5) 867.4
LEO	45 32	(770.0) 1082.3	122 19	(893.9) 408.0
OWL	45 32	(1114.3) 738.0	122 19	(987.2) 314.7
~~NEP~~ (Lt.)	45 32	(971.1) 881.2	122 18	(177.6) 1124.2
OUGH REEF BUOY-Can No.1	45 34	(1232.2) 620.2	122 21	(609.3) 691.8
Sheet WE-H-46 (T-7078-b)				
NOD	45 32	(963.2) ———	122 18	(909.6) 392.3
OHM	45 32	(965.2) ———	122 17	(432.6) 869.3
PRO	45 32	(864.5) ———	122 16	(1281.6) 20.3
RUB (Lt.)	45 32	(663.7) ———	122 15	(516.6) 785.3
TAN	45 32	(492.3) ———	122 14	(315.5) 986.4
SHEET No. WE-I-46 (7029a)				
DOT	45 33	(475.0) 1377.4	122 12	(386.3) 915.2
CAPE (Cape Horn Lt.)	45 33	(446.3) 1406.1)	122 12	(484.4) 817.1
KID (Lt.)	45 34	(456.0) 1396.4	122 10	(696.5) 604.1
LAD	45 34	(198.2) 1654.2	122 09	(77.8) 1223.3
MAN (Lt.)	45 34	(46.1) 1806.2	122 09	(757.5) 543.6
OWL	45 35	(1274.6) 577.7	122 08	(390.3) 910.4
ASH (Fashion Reef Lt.)	45 35	(1680.2) 172.1	122 08	(1116.3) 184.4
FASHION REEF BUOY No.2	45 34	(79.7) 1772.6	122 08	(1185.5) 114.6

TOPOGRAPHIC POSITIONS

Sheet No. WE-I-46(T-7029-a)

BUD		45	34	(510.1) 1342.2	122	08	(257.0) 1044.3

Sheet No. WE-J-46(T-7029-b)

LIT	(Lt.)	45	34	(300.0) 1552.3	122	06	(446.4) 854.7
TIP	(Lt.)	45	34	(150.2) 1702.1	122	06	(902.2) 399.0
FIG		45	36	(945.2) 907.2	122	02	(960.2) 340.3
EGG		45	36	(917.4) 935.0	122	03	(1126.0) 174.4
DEP		45	36	(1648.9) 203.5	122	03	(1217.8) 82.6
CAT		45	36	(1604.1) 248.2	122	04	(1090.4) 210.0

Scaled by ——A.M.Legako
Checked by —— E.H.Bernstein
Copy Checked by ——

TOPOGRAPHIC POSITIONS

Topographic
Sheet No.(WE-K-46) T-7030

Name of station	Latitude	Adjusted D.M.	Longitude	Adjusted D.P.	
JUT	45° 36′	(210.2) 1642.2	122° 00′	(503.0) 797.4	For Hydrographic Sheet (WE-1446) H-7133
HIS	45° 37′	(801.4) 1051.0	122° 01′	(1246.4) 53.6	
IVY	45° 37′	(700.0) 1152.4	122° 00′	(223.5) 1076.5	
HOE	45° 37′	(1357.8) 494.5	122° 01′	(1088.5) 211.5	
HOP	45° 37′	(1428.6) 423.8	122° 00′	(54.5) 1245.5	
NIP	45° 37′	(1345.0) 507.4	121° 59′	(490.0) 810.0	
LUX	45° 37′	(1570.9) 281.5	122° 00′	(1159.5) 140.5	
MAN	45° 36′	(11.2) 1841.1	121° 59′	(214.0) 1086.4	
HAT	45° 37′	(1627.3) 225.1	122° 00′	(151.5) 1148.6	
SOW	45° 37′	(976.2) 876.2	121° 58′	(485.2) 814.8	
SAM	45° 37′	(701.2) 1151.2	121° 58′	(67.2) 1232.8	

Topographic
Sheet No: (HO-E-47) T-7052

HAG	45° 38′	(795.95) 1056.44	121° 57′	(1231.6) 66.4	For Hydrographic Sheet (HO-05347)
ICE	45° 38′	(721.1) 1131.3	121° 56′	(01.0) 1298.0	
JOB	45° 38′	(1148.3) 704.1	121° 56′	(140.9) 1158.7	
LIP	45° 38′	(1176.0) 676.4	121° 56′	(204.5) 1095.1	
LEG	45° 38′	(386.0) 1466.5	121° 56′	(01.0) 1298.0	
MID	45° 38′	(398.0) 1454.5	121° 56′	(149.0) 1150.0	
NEW	45° 38′	(1200.0) 652.5	121° 56′	(284.5) 1014.5	
MAX	45° 38′	(912.0) 940.5	121° 56′	(402.0) 897.0	
NEO	45° 38′	(373.0) 1479.5	121° 56′	(820.5) 478.5	
HH-40,1943 (USE)	45° 38′	(388.0) 1464.4	121° 56′	(1190.0) 109.0	
ROCK (USE) 1939	45° 38′	(631.5) 1220.9	121° 55′	(91.5) 1207.5	

TOPOGRAPHIC POSITIONS

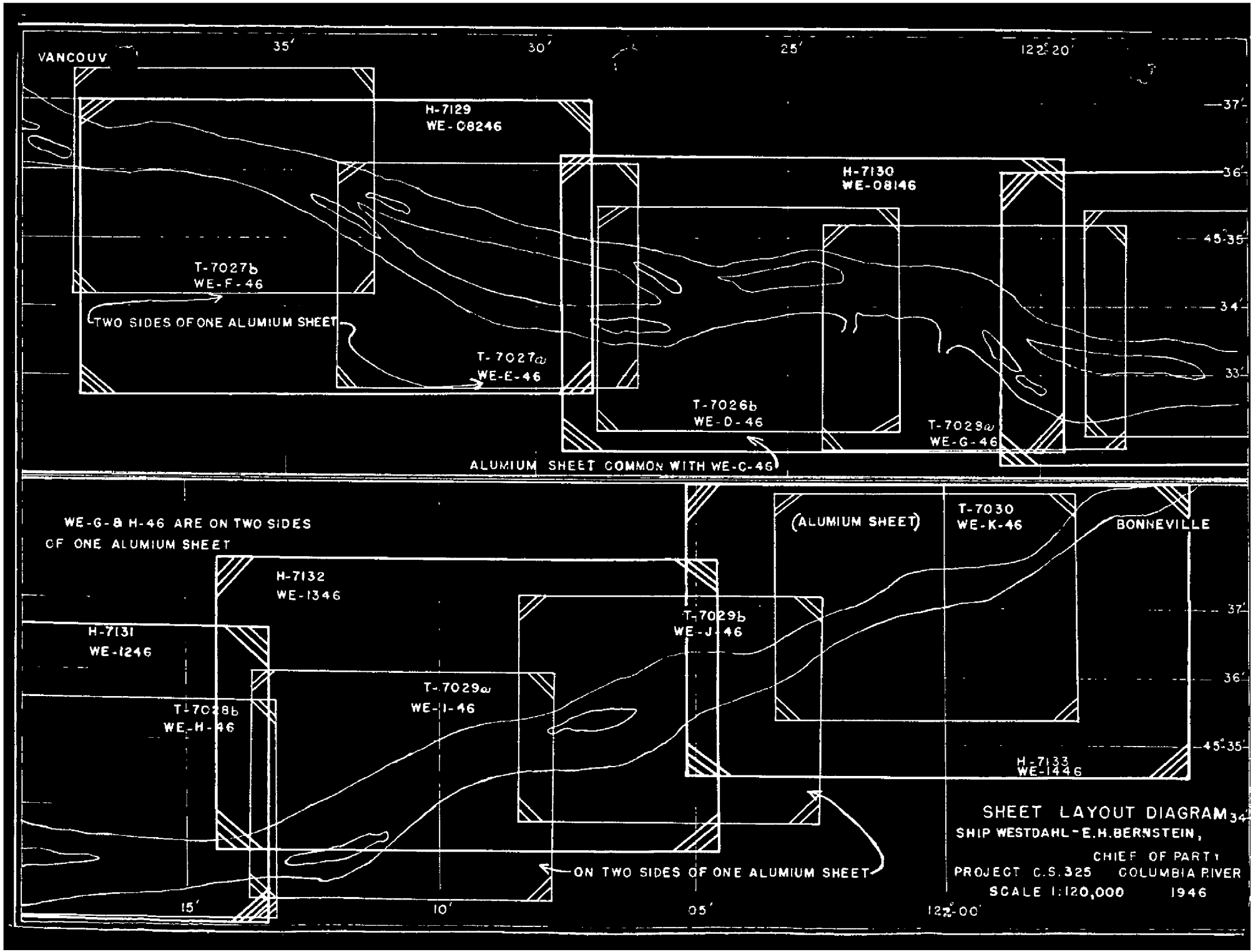
Topographic
Sheet No.(HO-E-47) T-7052

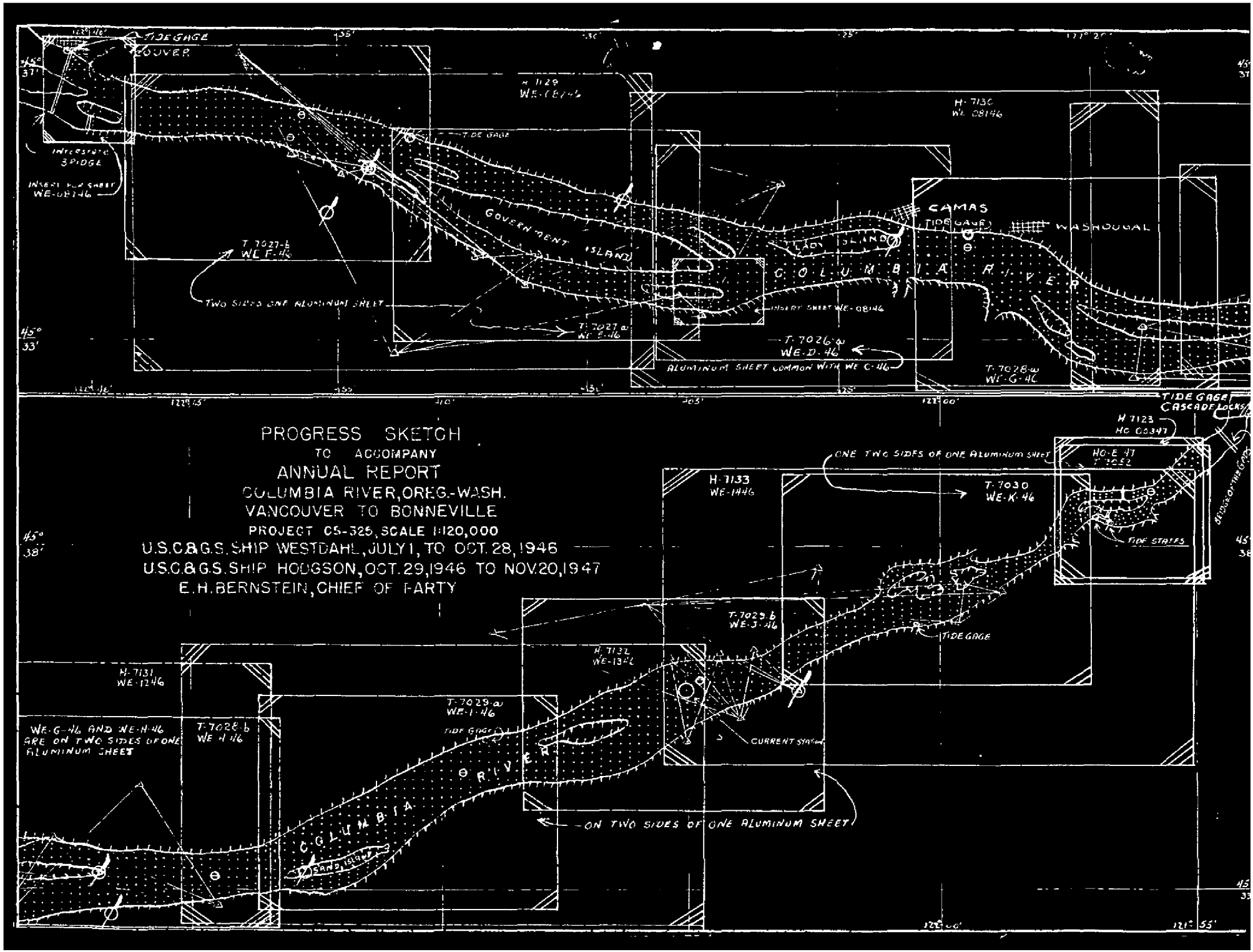
OBI (Bradford Island Light)	45° 38′	(971.2) 881.2	121° 56′	(1215.0) 84.0
NOW (Bradford Slough Light)	45° 38′	(1197.4) 655.0	121° 56′	(1268.0) 31.0
WAX	45° 39′	(——) 149.0	121° 55′	(922.8) 376.2
YET	45° 39′	(——) 366.0	121° 55′	(1239) 60
VIA	45° 37′	(338.5) ——	121° 57′	(——) 1013.0
CRY	45° 38′	(1430.0) 422.2	121° 57′	(858) 439.5
DAY	45° 38′	(1404.8) 447.5	121° 57′	(884.5) 413.5
ODD	45° 38′	(1400.5) 452.0	121° 56′	(183.5) 1115.5
~~DOT~~ SHE	45° 38′	(38.7) 1813.7	121° 55′	(654.0) 645.0
LUG	45° 38′	(1320.19) 532.2	121° 56′	(581.2) 718.4

Topographic
Sheet No. (HO-E-47) T-7052

VAN	45° 38′	(16.2) 1836.2	121° 55′	(791.8) 507.2
WIT	45° 38′	(245.2) 1607.2	121° 55′	(1078.5) 220.5
ZIG	45° 39′	(——) 281.0	121° 55′	(1202.5) 96.5

Form Hydrographic Sheet (HO-05347)


VANCOUV
35'
30'
25'
122°20'
37'
36'
45°35'
34'
33'
H-7129
WE-08246
H-7130
WE-08146
T-7027b
WE-F-46
TWO SIDES OF ONE ALUMIUM SHEET
T-7027a
WE-E-46
T-7026b
WE-D-46
T-7028a
WE-G-46
ALUMIUM SHEET COMMON WITH WE-C-46
WE-G-& H-46 ARE ON TWO SIDES
OF ONE ALUMIUM SHEET
H-7132
WE-1346
H-7131
WE-1246
T-7028b
WE-H-46
T-7029a
WE-I-46
T-7029b
WE-J-46
(ALUMIUM SHEET)
T-7030
WE-K-46
BONNEVILLE
H-7133
WE-1446
ON TWO SIDES OF ONE ALUMIUM SHEET
15'
10'
05'
122°00'
SHEET LAYOUT DIAGRAM
SHIP WESTDAHL - E.H.BERNSTEIN,
CHIEF OF PARTY
PROJECT C.S.325 COLUMBIA RIVER
SCALE 1:120,000 1946


PROGRESS SKETCH
TO ACCOMPANY
ANNUAL REPORT
COLUMBIA RIVER, OREG.-WASH.
VANCOUVER TO BONNEVILLE
PROJECT CS-325, SCALE 1:120,000
U.S.C.&G.S. SHIP WESTDAHL, JULY 1, TO OCT. 28, 1946
U.S.C.&G.S. SHIP HODGSON, OCT. 29, 1946 TO NOV. 20, 1947
E.H. BERNSTEIN, CHIEF OF PARTY
TIDE GAGE
COUVER
INTERSTATE BRIDGE
INSERT FOR SHEET WE-08146
H-7129
WE-08146
H-7130
WE-08146
TIDE GAGE
GOVERNMENT ISLAND
CAMAS
TIDE GAGE
WASHOUGAL
LADY ISLAND
COLUMBIA RIVER
T-7027-b
WE-F-46
TWO SIDES ONE ALUMINUM SHEET
INSERT SHEET WE-08146
T-7027-a
WE-F-46
T-7026-a
WE-D-46
ALUMINUM SHEET COMMON WITH WE-C-46
T-7028-a
WE-G-46
TIDE GAGE
CASCADE LOCKS
H-7123
HO-E-47
ONE TWO SIDES OF ONE ALUMINUM SHEET
H-7133
WE-1446
T-7030
WE-K-46
TIDE STATES
T-7029-b
WE-J-46
TIDE GAGE
H-7132
WE-1346
H-7131
WE-1246
T-7029-a
WE-I-46
TIDE GAGE
WE-G-46 AND WE-H-46 ARE ON TWO SIDES OF ONE ALUMINUM SHEET
T-7028-b
WE-H-46
CURRENT STATION
COLUMBIA RIVER
SAND ISLAND
ON TWO SIDES OF ONE ALUMINUM SHEET
45° 37'
45° 33'
45° 38'
122° 15'
122° 00'
121° 55'

Form 5[illegible]
April 194[illegible]

DEPARTME[illegible] OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

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

Portland, O[illegible]egon 15 November, 194[illegible]

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 R. M. Stone
R.

E. H. Bernstein *Chief of Party*

STATE / CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D.M. METERS	LONGITUDE ° ′	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHART AFFECT
	New Front Range Structure -Est.Nov.1947 (455 meters ENE Multnomah Falls Range Front Lt.)		45 34	(159.0) -----	122 06	(874.5) 426.5	N.A. 1927	Topo Sheet T-7029a	Nov.1947	X			6156
	New Front Range Structure - Nov.1947 (Approx. 1 mile west of McGowans Lt.)		45 36	(1054.5) 798.0	122 03	(959.5) 340.5	"	"	"				6156
	New Front Range Structure-Nov.1947 (Approx.500 m. NNW McGowans Lt.)		45 36	(299.0) 1553.5	122 02	(1270.0) 30.0	"	"	"	X			6156
	Fashion Reef Lt. Est.Nov.1947		45 35	(1684.5) 168.0	122 08	(764.0) 516.5	"	Topo Sheet T-7029a	"	X			6156
	New Front Range Structure - Nov.1947 (185 m. East of New Fashion Reef Lt.)		45 35	(1642.5) 210.0	122 08	(1269.5) 31.0	"	"	"	X			6156
	New Front Range Structure- Nov.1947 (345 m. East of Tunnel Point)		45 32	(793.0) -----	122 16	(1059.5) 242.0	"	Topo Sheet T-7028b	"	X			6156

Plot letter 768 (1947)

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* [illegible] this form. The data should be considered for the charts of the area and not by

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

TO BE CHARTED / ~~TO BE REDETERMINED~~ } STRIKE OUT ONE

Camas, Washington 9 Sept., 1947

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

The positions given have been checked after listing by R. M. Stone

E. H. Bernstein *Chief of Party.*

Pages 1 to 10 Chart letter 7/11/(1947) (1949) don't do (see L. 7

STATE / CHARTING NAME	DESCRIPTION		SIGNAL NAME	POSITION LATITUDE ° '	LATITUDE D. M. METERS	LONGITUDE ° '	LONGITUDE D. P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
see L.768(1947) for positions this list	(Fl. R., 4 sec.)	1941			(150.2)		(982.2)	N. A.	T-7029b					
	MULTNOMAH FALLS DIKE 80)	(---)	TIP	45 34	1702.1	122 06	399.9	1927	Topo.	1946	X			6156
	(~~Fl. W., 1 sec.~~)	1941			(300.0)		(446.4)							
	~~MULTNOMAH FALLS RANGE~~	(1946	LIT	45 34	1552.3	122 06	854.7	"	"	1946	X			6156
	(Fl. W., 4 sec.)	1934												
	MC GOWANS 88	1936	WANT	45 36	1331.1	122 01	769.7	"	Triang.	1938	X			6156
	(Fl. W., 4 sec.)	1938			(1197.4)		(1268.0)		HO-E-47					6156
	BRADFORD SLOUGH	1941	NOW	45 38	655.0	121 56	31.0	"	Topo.	1947	X			6157
	(Fl. G., 4 sec.)	1938			(971.2)		(1215.0)		T-7052					6156
	BRADFORD ISLAND	1944	OBI	45 38	881.2	121 56	84.0	"	"	1947	X			6157
	(Fl. R., 4 sec.)	1938												6156
	BRADFORD SLOUGH ENTRANCE	(---)	ROY	45 38	1050.5	121 55	1066.9	"	Triang.	1938	X			6157
					(679.2)		(720.2)		T-7028a					
	DOLPHIN		DOC	45 34	1173.2	122 22	581.0	"	Topo	1946	X			6156
					(477.1)		(434.5)							
	DOLPHIN, OFFSHORE END OF PILE JETTY		LOG	45 32	1375.2	122 19	867.4	"	"	1946	X			6156
					(770.0)		(893.9)							
	DOLPHIN, OFFSHORE END OF PILE JETTY		LEO	45 32	1082.3	122 19	408.0	"	"	1946	X			6156
	DOLPHIN, AT SE END OF NE & SE PILE JETTY		OWL	45 32	(1114.3) 738.0	122 19	(987.2) 314.7	"	"	1946	X			6156
	DOLPHIN, OFFSHORE END OF PILE JETTY		NOD	45 32	(963.2) -----	122 18	(909.6) 392.3	"	T-7028b Topo.	1946	X			6156
	ONION ROCK, PINNACLE			45 32	977.7	122 16	21.3	"	Triang.	1938	X			6156
	ROOSTER ROCK, PINNACLE			45 32	1166.4	122 14	1281.5	"	"	1938	X			6156
	W.W. PILE SE CORNER OF OLD DOCK		PILE	45 34	263.9	122 20	602.1	"	"	1938	X			6156

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Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

TO BE CHARTED / ~~TO BE DELETED FROM CHARTS~~ } STRIKE OUT ONE

Camas, Washington 9 Sept., 1947

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 R. M. Stone

E. H. Bernstein *Chief of Party.*

STATE / CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D. M. METERS	LONGITUDE ° ′	LONGITUDE D. P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	Dolphin, End of Jetty	BAT	45-36	(1582.7) 269.7	122-37	(921.8) 378.5	N.A. 1927	T-7027b Topo.	1946	X			6156
	Dolphin, End of Jetty	CAR	45-36	(1569.6) 282.8	122-36	(470.4) 830.0	"	"	"	X			6156
	Dolphin, End of Jetty (Old. Lt. stand dol.)	LIP	45-36	(799.2) 1053.2	122-36	(829.8) 470.4	"	"	"	X			6156
	Dolphin, at N. E. end of Government Is.	OFF	45-35	(643.4) 1209.0	122-33	(417.2) 883.5	"	T-7027a "	"	X			6156
	Dolphin, End of Jetty	DUD	45-36-04.39	(1716.81) 135.53	122-35-56.19	(82.58) 1217.86	"	T-7027b Triang.	"	X			6156
	Dolphin, End of Jetty, N.W. End Lemon Island	LOG	45-35-48.78	(346.39) 1505.96)	122-34-11.27	(1056.10) 244.26	"	Triang.	"	X			6156
	Dolphin, End of Jetty	OUT	45-35	(1362.4) 450.0	122-31	(0.5) 1300.1	"	T-7027a Topo.	"	X			6156
	~~Dolphin, End rock Jetty, Vancouver Shipyards~~	~~RIP~~	~~45-36~~	~~(565.5) 1286.9~~	~~122-38~~	~~(685.3) 614.8~~	"	"	"	X			6156
	~~Dolphin, most westerly of row of dolphins~~	~~SHE~~	~~45-36~~	~~(886.9) 965.5~~	~~122-36~~	~~(1295.2) 05.0~~	"	"	"	X			6156
	Dolphin, End of pile jetty	WIN	45-35	(1576.4) 276.0	122-31	(748.5) 552.2	"	T-7027a "	"	X			6156
	Dolphin, LEISER POINT Dolphin	OLD	45-36-24.114	744.5	122-35-20.997	455.0	"	Triang.	1938	X			6156
	Dolphin, Dike A Dolphin at N. End.	ABE	45-36-33.021	1019.5	122-39-31.806	689.2	"	"	"	X			6156
	Dolphin, Tomahawk Is. Upper Dike	DIKE	45-36-20.399	629.8	122-38-47.794	1035.7	"	"	"	X			6156
	Dolphin, Dike B Dolphin at S. end	END	45-36-12.570	388.1	122-38-48.977	1061.4	"	"	"	X			6156

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April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

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

Camas, Washington 9 Sept. 1947

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

The positions given have been checked after listing by R. M. Stone

E. H. Bernstein *Chief of Party.*

STATE				POSITION											
				LATITUDE			LONGITUDE								
CHARTING NAME	DESCRIPTION	Est. Rebuilt	SIGNAL NAME	°	'	D.M. METERS	°	'	D. P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	(F.G.)	1902				(515.9)			(201.8)	N.A.						
	PARKER LANDING 49	1929	PARK	45	34	1336.5	122	22	1099.3	1927	Triang.	1939	X			6156
	(Fl.R.,2.5 sec.)	1898				(1417.8)			(594.3)		Photo-					
	WASHOUGAL 50	1943	WHO	45	34	434.6	122	21	706.7	"	gramm.	1946	X			6156
	(Fl. R., 4 sec.)	1946				(710.0)			(319.5)		T-7028a					
	GARY ISLAND DIKE 52	(----)	HAT	45	33	1142.3	122	20	982.0	"	Topo.	1946	X			6156
	(Fl. R., 4 sec.)	1946				(1171.5)			(568.0)							
	GARY ISLAND DIKE 54	(---)	ICE	45	33	680.8	122	20	733.5	"	"	1946	X			6156
	(Fl. R., 4 sec.)	1941				(1636.5)			(893.8)							
	GARY ISLAND DIKE 56	(---)	JAR	45	33	215.8	122	20	407.7	"	"	1946	X			6156
	GARY ISLAND DIKE 8	1941				(159.0)			(1293.4)							
	(Fl. R., 4 sec.)	(---)	LEG	45	32	1693.4	122	20	08.5	"	"	1946	X			6156
	(Fl. R., 4 sec.)	1946				(971.1)			(177.6)							
	CORBETT DIKE 60	(---)	LIP	45	32	881.2	122	18	1124.2	"	"	1946	X			6156
	(Fl. W., 5 sec.)	1923														
	CORBETT 62	1934	BET	45	32	978.5	122	17	498.7	"	Triang.	1938	X			6156
	(Fl. R., 4 sec.)	1941				(663.7)			(516.6)		T-7028b					
	ROOSTER ROCK	(---)	RUB	45	32	-----	122	15	785.3	"	TOPO.	1946	X			6156
	(Fl. W., 4 sec.)	1917				(446.3)			(484.4)		T-7029a.					
	CAPE HORN 67	1920	CAPE	45	33	1406.1	122	12	817.1	"	Topo.	1946	X			6156
	(Fl. W., 4 sec.)	1915														
	CANDIANA 69	1935	CAN	45	34	915.4	122	11	413.3	"	Triang.	1938	X			6156
	(Fl. G., 4 sec.)	1941				(456.0)			(696.5)		T-7029a					
	CAPE HORN LOWER DIKE 71	(---)	KID	45	34	1396.4)	122	10	604.1	"	Topo.	1946	X			6156
	(Fl. G., 4 sec.)	1946				(46.1)			(757.5)							
	PRINDLE DIKE 73	(---)	MAN	45	34	1806.2	122	09	543.6	"	"	1946	X			6156
	(Fl. W., 4 sec.)	1915				(1680.2)			(1116.3)							
	FASHION REEF	1941	ASH	45	35	172.1	122	08	184.4	"	"	1946	X			6156

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Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

Camas, Washington 9 Sept., 19 47

I recommend that the following objects which have ~~(been)~~ 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 R. M. Stone

E. H. Bernstein *Chief of Party.*

STATE / CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D. M. METERS	LONGITUDE ° ′	LONGITUDE D. P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	Black Can Buoy C-1 (Ione Reef)		45-33	(61.0) 1791.4	122-24	(187.8) 1113.8	N.A. 1927	Hydro T-7028a	1946	X			6156
	Hassalo Reef Black Can Buoy C1		45-34	(357.8) 1494.6	122-27	(121.6) 1179.2	"	Topo.	1946	X			6156
	Hassalo Reef Black Can Buoy C3		45-34	(474.4) 1378.0	122-27	(303.3) 997.5	"	Topo	1946	X			6156
	Leiser Point Channel Buoy C-1		45-36	(1205.1) 647.3	122-35	(909.3) 391.0	"	Topo	1946	X			6156
	Leiser Point Channel Buoy C-3		45-36	(1512.5) 339.9	122-34	(780.2) 520.1	"	Topo	1946	X			6156
	Leiser Point Channel Buoy C-5 (Black 1st Class Can)		45-35	(93.6) 1758.8	122-33	(989.0) 312.5	"	Topo T-7028a	1946	X			6156
	Ough Reef Buoy 1 (Red - 1st Class Nun)		45-34	(1232.2) 620.2	122-21	(609.3) 691.8	"	Topo	1946	X			6156
	Fashion Reef Buoy 2		45-34	(79.7) 1772.6	122-08	(1185.5) 114.6	"	T-7029a	1946	X			6156

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U. S. COAST AND GEODETIC SURVEY

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STATE			POSITION					METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE		LONGITUDE		DATUM						
CHARTING NAME	DESCRIPTION	SIGNAL NAME	° '	D. M. METERS	° '	D. P. METERS							
	CAMAS LT. Est. 1920 (Fl. G., 2.5 sec.) Rebuilt 1944	CAM	45-34	(811.4) 1041.0	122-26	(493.4) 807.7	N.A. 1927	Photo-gramm.	1946	X			6156
	TROUTDALE 40 LT. Est. 1927 (Fl.R.) Rebuilt 1944	DAY	45-33	(486.3) 1366.1	122-25	(27.3) 1273.9	"	"	"	X			6156
	HASSALO ROCK LT. Est. 1930 (F.W.) Rebuilt 1936	DOG	45-34	(194.5) 1657.9	122-27	(151.8) 1148.9	"	"	"	X			6156
	MCGUIRE ISLAND LOWER DIKE LT. (Fl. R. 2.5 sec) Est. 1941	GUY	45-34	(1649.5) 202.9	122-27	(783.8) 517.2	"	"	"	X			6156
	FISHER DOCK 29 LT. Est. 1913 (F.W.) Rebuilt 1936	HER	45-35	(1436.8) 415.6	122-30	(1009.8) 290.8	"	"	"	X			6156
	IONE REEF LT. Est. 1927 (Fl. W. 4 sec.) Rebuilt 1934	ION	45-33	(173.3) 1679.1	122-24	(612.2) 688.9	"	"	"	X			6156
	QUARRY Lt. Est. 1923 (Fl. W.) Rebuilt 1945	LIT	45-34	(39.0) 1813.4	122-28	(816.8) 483.9	"	"	"	X			6156
	LADY ISLAND FRONT RANGE (Fl. R. 1 sec.) Est. 1941	LADY	45-33	(37012) 1482.2	122-26	(719.8) 581.5	"	"	"	X			6156
	GOVERNMENT ISLAND RANGE REAR-Est.1941 LADY ISLAND RANGE REAR- Est. 1941	PAW	45-33	(402.6) 1449.8	122-26	(438.3) 862.9	"	"	"	X			6156
	CAMAS SLOUGH RANGE FRONT Est.1927 (Fl. W. 1 sec) Rebuilt 1935	SAM	45-34	(1004.6) 847.8	122-26	(1198.5) 102.4	"	"	"	X			6156
	CAMAS SLOUGH RANGE REAR Est.1927 (Occ. W. 6 sec.) Rebuilt 1935	SLY	45-34	(1037.4) 815.0	122-26	(1278.1) 22.8	"	"	"	X			6156
	GOVERNMENT ISLAND RANGE FRONT 36 (Fl. R. 1 sec) Est. 1941	SIS	45-33	(231.6) 1620.8	122-26	(220.9) 1080.3	"	"	"	X			6156
	MCGUIRE ISLAND MIDDLE DIKE 34 (Fl. R. 4 sec) Est. 1946	SHE	45-33	(32.9) 1819.5	122-27	(1153.1) 148.0	"	T-70266 Topo.	"	X			6156
√	VERTICAL BEAM LT. AIRPORT (PORTLAND - COLUMBIA)	---	45-35	(55.2) 1797.1	122-36	(850.4) 450.0	"	T-70276 Topo.	"	X			6156

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~~NONFLOATING AIDS TO~~ LANDMARKS FOR CHARTS

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STATE			POSITION											
			LATITUDE			LONGITUDE								
CHARTING NAME	DESCRIPTION	SIGNAL NAME	° ′	D.M. METERS	° ′	D. P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
TOWER	TRANSMISSION TOWER, SOUTH SIDE, COLUMBIA RIVER	MAST	45 33	(225.9) 1626.5	122 24	(539.3) 763.4	N.A. 1927	Photo-gramm.	1946	x			6156
STACK	STACK, ALUM. PLANT, TROUTDALE	SKY	45 33	(1096.7) 755.6	122 23	(167.7) 1133.6	"	Topo.	"	x			6156
AERO(Bn)	AERO BEACON, TROUTDALE AIRPORT	AERO	45 33	(1757.3) 95.1	122 23	(166.8) 1134.7	"	Photo-gramm.	1945	X			6156
STACK	TALLEST STACK, CROWN WILLAMETTE PAPER 60.	BRICK	45 35	(1832.67) 19.63	122 24	(619.60) 681.18	"	Triang.	1945	X			6156
TOWER	TRANSMISSION TOWER, NORTHSIDE OF COLUMBIA RIVER, SOUTHSIDE OF LADY'S ISLAND, APEX, WASHINGTON	NEO	45 34	522.9	122 24	757.2	"	"	1938	x			6156
TOWER	TRANSMISSION TOWER, MIDSTREAM, APEX - OREG.	ELLA	45 34	157.2	122 24	758.7	"	"	1938	x			6156
TANK	VANCOUVER, SILVER ELEV. TANK, CONICAL TOP	SILVER	45 37	1653.34	122 38	939.91	"	"	1938-1945	x			6156
STACK	VANCOUVER, SCHOOL, BLIND, STACK	BLIND	45 37	938.5	122 38	362.9	"	"	1938	x			6156
RADIO TOWER	K.G.W. RADIO TOWER, EASTERN	TOWER	45 36	146.3	122 41	191.0	"	"	1938	x			6154 6155
TANK, ELEV.	NORTH PORTLAND, BLACK TANK, CENTER	TANK	45 35	1851.5	122 39	926.9	"	"	1938	X			6156 6155
RADIO TOWER	K.G.W., WESTERN SKELETON STEEL RADIO TOWER,	----	45 36	~~200~~ 203.5	122 41	~~425~~ 431.0	"	Topo.	19~~46~~	x			6154 6155
RADIO TOWER	KEX, SKELETON STEEL, MAST	----	45 36	400.3	122 41	405.1	"	Triang.	1938	x			6154 6155
TANK ELEVATED	STEEL AT FRUIT VALLEY	-----	45 38	(415.6) 1436.7	122 41	(594.2) 705.4	"	Topo.	1946	x			6154

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	LEISER PT. UPPER RANGE, FRONT 25 (Fl.W. 1 sec.) Est. 1941	LIZ	45-35	(691.7) 1160.7	122-31	(21.8) 1278.7	N.A. 1927	Photo-gramm.	1946	X			6156
	LEISER PT. UPPER RANGE, REAR (Occ. W. 6 sec.) Est. 1941	EAR	45-35	(794.0) 1058.4	122-31	(358.4) 942.1	"	"	"	X			6156
	LEISER PT. LOWER RANGE, FRONT No.15 (Fl. W. 1 sec.) Est. 1941, Rebuilt 1944	MUG	45-36	(744.3) 1108.1	122-36	(546.7) 753.5	"	"	"	X			6156
	LEISER PT. LOWER RANGE, REAR (Occ. W. 6 sec.) Est. 1941	JAY	45-36	(558.7) 1293.7	122-37	(1234.4) 65.8	"	"	"	X			6156
	RYAN PT. UPPER RANGE, FRONT, 17 (Fl. W. 1 sec.) Est. 1941, Rebuilt 1944	FRONT	45-36	(972.8) 879.6	122-35	(298.8) 1001.7	"	"	"	X			6156
	RYAN PT. UPPER RANGE, REAR (Occ. W. 6 sec.) Est. 1941	REAR	45-36	(983.8) 868.6	122-35	(555.1) 745.4	"	"	"	X			6156
	LEISER PT., DIKE 13 (Fl. G. 4 sec.) Est. 1946	GUM	45-36	(720.1) 1132.3	122-37	(1178.4) 121.8	"	T-7027b Topo.	"	X			6156
(Not in light list)	DOLPHIN, END OF JETTY (Privately lighted)	ACE	45-36	(1505.8) 346.5	122-38	(1265.9) 34.5	"	"	"	X			6156
	PILE CLUSTER (OLD HOOD BAR LT. NO. 38)	BAR	45-35-09.64	297.6	122-32-41.63	902.5	"	Triang.	1938	X			6156
	PILE CLUSTER (OLD GOVERNMENT IS. LT.)	VET	45-35-32.46	1002.1	122-33-34.19	741.1	"	"	1938	X			6156
	DOLPHIN, END OF DIKE JETTY	GOB	45-35	(1030.6) 821.8	122-31	(1119.8) 188.8	"	T-7027a Topo.	1946	X			6156
	DOLPHIN (4-PILE DOLPHIN)	WIG	45-33	(648.5) 1203.9	122-26	(301.5) 999.7	"	T-7026b "	1946	X			6156
	DOLPHIN	PAL	45-33	(598.0) 1254.5	122-26	(241.5) 1060.0	"	"	"	X			6156
	LADD IS. UPPER 43 (Fl. W. 4 sec.) Est. 1927 Rebuilt 1934	BOX	45-34	(1219.2) 633.2	122-24	(1260.5) 40.4	"	Photo-gramm.	"	X			6156

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.

7

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS [redacted] FOR CHARTS

TO BE CHARTED
[redacted] } STRIKE OUT ONE

Camas, Washington 9 Sept. 19 47

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

The positions given have been checked after listing by R. M. Stone

E. H. Bernstein *Chief of Party.*

STATE / CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D. M. METERS	LONGITUDE ° ′	LONGITUDE D. P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	DOLPHIN, END OF JETTY	LAD	45 34	(198.2) 1654.2	122 09	(77.8) 1223.3	N. A. 1927	T-7029a Topo.	1946	X			6156
	PHOCA ROCK, HIGHEST POINT	ROCK	45 34	647.5	122 10	1071.4	"	Triang.	1938	X			6156
	DOLPHIN, OFFSHORE, SMALL FLOAT, PRINDLE, WASHINGTON	OWL	45 35	(1274.6) 577.7	122 08	(390.3) 910.4	"	T-7029a Topo	1946	X			6156
	DOLPHIN, END OF BIKE JETTY	DUD	45 34	(510.1) 1342.2	122 08	(257.0) 1044.3	"	"	1946	X			6156
	DOLPHIN, NEAR WED 2 USE	DOL	45 34	861.4	122 09	414.8	"	Triang.	1938	X			6156
	DOLPHIN	FIG	45 36	(945.2) 907.2	122 02	(960.2) 340.3	"	T-7029a Topo.	1946	X			6156
	DOLPHIN	EGG	45 36	(917.4) 935.0	122 03	(1126.0) 174.4	"	"	1946	X			6156
	PILE, LONE, NEAR HEN USE 1935	SOL	45 33	(1308.9) 543.5	122 16	(1293.0) 08.5	"	T-7028b Topo.	1946	X			6156

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(8)

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

~~NONFLOATING AIDS OR~~ LANDMARKS FOR CHARTS

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

Camas, Washington 9 Sept., 1947

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

The positions given have been checked after listing by R. M. Stone

E. H. Bernstein *Chief of Party.*

STATE			POSITION											
			LATITUDE			LONGITUDE								
CHARTING NAME	DESCRIPTION	SIGNAL NAME	° ′	D.M. METERS	° ′	D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
TOWER	OVERHEAD TRANSMISSION LINE CROSSING		45 38	898.2	122 42	853.2	N.A.1927	T-7026a topo.	1946	X			6154
TOWER	OVERHEAD TRANSMISSION LINE CROSSING		45 37	1791.2	122 43	171.9	"	"	"	X			6154
STACK	LIGHT CONCRETE, ALCOA		45 38	1725.0	122 43	1156.1	"	Triang.	"	X			6154
TANK	WASHOUGAL WOOLEN MILLS ELEV. SILVER TANK, WESTERN OF TWO (WASH)	WOOL	45 34	(660.92) 1191.42	121 21	160.1	"	"	1938	X			6156
TANK	WASHOUGAL N.E. OF, ELEV. SILVER TANK (WASH.)		45 35	40.3	122 20	542.6	"	"	1938	X			6156
DOME	CROWN POINT, VISTA HOUSE DOME (OREG.) (OREG.)		45 32	710.9	122 14	768.8	"	"	1938	X			6156
AERO	PORTLAND-SPOKANE AIRWAY BEACON NO.2	AIR	45 33	838.6	122 11	1138.5	"	"	1938	X			6156
	CREST, MULTNOMAH FALLS (OREG.)	CREST	45 34	1041.7	122 06	1089.8	"	"	1938	X			6156
	CREST, HORSETAIL FALLS (OREG.)	HORSE	45 35	715.9	122 04	64.8	"	"	1938	X			6156
AERO	PORTLAND SPOKANE AIRWAY BEACON NO. 3-A (WASH.)		45 37	1265.7	122 01	252.1	"	"	1938	X			6156
TANK	BONNEVILLE ELEVATED SILVER TANK (OREG.)	DOT	45 38	483.3	121 57	206.5	"	"	1938	X			6156 6157
TOWER	BONNEVILLE TRANSMISSION TOWER OREGON CITY NO. 3 (OREG.)	ODD	45 38	(1400.5) 452.0	121 56	(183.5) 1115.5	"	T-7052 HO-E-47 Topo.	1947	X			6156 6157
TOWER	BONNEVILLE TRANSMISSION TOWER OREG. CITY (OREG.)	JOB	45 38	(1148.3) 704.1	121 56	(140.9) 1158.7	"	" "	1947	X			6156 6157
TOWER	BONNEVILLE TRANSMISSION TOWER HOOD RIVER (OREG.)	LIP	45 38	(1176.0) 676.4	121 56	(204.5) 1095.1	"	" "	1947	X			6156 6157

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.

(9)

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Copy.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

Portland, Oregon 28 Feb., 1947

I recommend that the following objects which have ~~(been 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 M. E. Hennermark

E. H. Bernstein *Chief of Party.*

STATE			POSITION										
			LATITUDE			LONGITUDE							
CHARTING NAME	DESCRIPTION	SIGNAL NAME	° '	D. M. METERS	° '	D. P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
Light	Jennings Lodge	JEN	45 23	431	122-37	306	N.A. 1927	Air Photo T-8704	1946	x			
Light	Starkweather Landing	HER	45 23	1075	122-37	615	"	"	1946	x			
Light	Bingham Landing	MAW	45 23	1549	122-38	292	"	"	1946	x			
Light	Milwaukie	IDA	45 26	886	122-38	687	"	Sextant H-7126	1946	X			
Light	Elk Rock	ROC	45 26	402	122-38	1172	"	Air Photo T-8702	1946	X			
Light	Clackamas Rapids	RAP	45 22	912	122-37	215	"	Air Photo T-8704	1946	X			
Light	Christie	TIE	45 24	425	122-38	1028	"	Air Photo T-8702	1946	X			

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.

(19)

Form 56
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T 7028
T 7029

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

TO BE CHARTED / ~~TO BE DELETED~~ — STRIKE OUT ONE

Portland, Oregon — 15 November, 1947

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

The positions given have been checked after listing by R. M. Stone

E. H. Bernstein — *Chief of Party.*

STATE / CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D. M. METERS	LONGITUDE ° ′	LONGITUDE D. P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	New Front Range Structure -Est.Nov.1947 (455 meters ENE Multnomah Falls Range Front Lt.)		45 34	(159.0) -----	122 06	(874.5) 426.5	N.A. 1927	Topo Sheet T-7029a	Nov.1947	X			6156
	New Front Range Structure - Nov.1947 (Approx. 1 mile west of McGowans Lt.)		45 36	(1054.5) 798.0	122 03	(959.5) 340.5	"	"	"	X			6156
	New Front Range Structure-Nov.1947 (Approx.500 m. NNW McGowans Lt.)		45 36	(299.0) 1553.5	122 02	(1270.0) 30.0	"	"	"	X			6156
	Fashion Reef Lt. Est.Nov.1947		45 35	(1684.5) 168.0	122 08	(784.0) 516.5	"	Topo Sheet T-7029a	"	X			6156
	New Front Range Structure - Nov.1947 (485 m. East of New Fashion Reef Lt.)		45 35	(1642.5) 210.0	122 08	(1269.5) 31.0	"	"	"	X			6156
	New Front Range Structure- Nov.1947 (345 m. East of Tunnel Point)		45 32	(793.0) -----	122 16	(1059.5) 242.0	"	Topo Sheet T-7028b	"	X			6156

Chart letter 768 (1947)

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

GEOGRAPHIC NAMES

Survey No. T7028a

b

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
										1
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M 234

GEOGRAPHIC NAMES

Survey No. T7029 a b

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
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GEOGRAPHIC NAMES

Survey No. T7030 a b

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
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NAUTICAL CHARTS BRANCH

SURVEY NO. T-7026 a+b T-7028 a+b T-7030 a+b T-7027 a+b T-7029 a+b

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/1/48	6154	Ricegari	Added dolphins suppl. T-8674-5. ~~Before After~~ Verification and Review T-7027b
6/14/48	6156	"	Completely applied T-7028a+b; T-7029 a+b: T-7030a+b;
6/23/48	6156	"	No correction T-7026b ~~Before After Verification and Review~~
6/23/48	6156	"	Completely applied. T-7027a+b; T-7029 a+b. T-7028 a+b. T-7030 a+b.
1 Mar 50	6155	Nichols	Before After Verification and Review
			T-7027B fully applied
8 Aug 50	6156	Nichols	Before ~~After~~ Verification and Review
			Completely reapplied to reconstruction
			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.