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Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, Director

State: WASHINGTON

DESCRIPTIVE REPORT

Topographic } Sheet No. "pn"
~~Hydrographic~~

LOCALITY

~~WEST SEATTLE~~

DUWAMISH HEAD TO ALKI POINT

PUGET SOUND

1934.

CHIEF OF PARTY

JACK SENIOR

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. P

REGISTER NO. **6332**

State Washington

General locality Puget Sound

Locality West Seattle, Duwamish Head to Alki Point

Scale 1:5,000 Date of survey October, 1934.

Vessel U.S.C. & G.S.S. EXPLORER

Chief of Party Jack Senior

Surveyed by E. B. Lewey

Inked by E. B. Lewey

Heights in feet above M.H.W. to ground ~~not tops of rocks~~

Contour, ~~Approximate contour~~ Base line interval 20 feet

Instructions dated March 29, 1934.

Remarks:

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET "P"

WEST SEATTLE, DUWAMISH HEAD TO ALKI POINT

PUGET SOUND

WASHINGTON

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JACK SENIOR, CHIEF OF PARTY

SEASON OF 1934

DESCRIPTIVE REPORT
TO ACCOMPANY TOPOGRAPHIC SHEET "P"
WEST SEATTLE, DUWAMISH HEAD TO ALKI POINT
PUGET SOUND - WASHINGTON

INSTRUCTIONS:

The work on this sheet was done in accordance with the Director's Instructions for Project No. HF - 171, dated March 29, 1934. ✓

LIMITS:

The area included on this sheet lies between Latitudes $47^{\circ} 33.77'$ N. and $47^{\circ} 35.80'$ N.; and between Longitudes $122^{\circ} 23.18'$ W. and $122^{\circ} 25.2'$ W. A junction is made with Topographic Sheet "O", 1934, at triangulation station DUWAMISH, 1933, on Duwamish Head; Latitude $47^{\circ} 35.72'$ N. and Longitude $122^{\circ} 23.18'$ W. A junction is made with topographic Sheet "H", 1934, at triangulation station DRIVE, 1934, one mile south-south-east of Alki Point; Latitude $47^{\circ} 33.77'$ N. and Longitude $122^{\circ} 24.30'$ W. ✓

CONTROL:

The topography was controlled by the second order scheme of triangulation executed by Jack Senior, Commanding Str. EXPLORER, in 1934. ✓

All triangulation is based on the North American Datum, 1927. ✓

SURVEY METHODS:

Standard planetable survey methods were used. Topographic signals, shoreline and other topographic details were located by traverses run between the triangulation stations. ✓

All traverses closed satisfactorily and most of them closed perfectly. ✓

CONTOURS:

All elevations were determined by the usual planetable methods. ✓

The contours were obtained from blueprints of contour maps of the City of Seattle obtained from

Thomas R. Beeman, City Engineer. These contour maps were compiled by the City Engineering Department from elevations obtained while surveying streets. Sufficient elevations were determined on this sheet to verify the contours and a few additional contours were drawn in by the topographer. The city contour blueprints and their photostatic reductions to the scale of this sheet are enclosed. *The blueprints and photostats were not found on file, March 15, 1926 R.R.*

COMPARISON WITH EXISTING CHARTS:

Chart No. 6449:

This survey agrees satisfactorily with Chart No. 6449. The only differences of any note are the changes in buildings and streets since the date of the previous survey.

GENERAL DESCRIPTION:

Except around Alki Point, the shores within the limits of this sheet are steep. The shoreline is thickly settled and most of it is defined with either concrete or wooden bulkheads.

A small wooded knoll, 175 meters east of Alki Point Lighthouse and about 80 feet in height is prominent from either the north or south.

DISTORTION:

A 24" x 31" aluminum mounted sheet was used. No distortion was noted at any time.

MAGNETIC OBSERVATIONS:

An observation was made at triangulation station ALKI, S. W. BASE, 1921, with the declinoire.

LIMIT OF DETAIL:

No attempt was made to locate all of the buildings or streets within the limits of the sheet. The streets following the shoreline, the intersections of these streets with other streets, and the street car lines were carefully located. All buildings between the high water line and the streets parallel to the shoreline were located. A few prominent buildings on the inshore side of the streets adjacent to the shoreline were located also.

With the exception of the knoll on Alki Point, no attempt was made to show the vegetation. There are scattered patches of trees and scrubs on the slopes and higher ground within the limit of the sheet. The determination of the limits of this vegetation would have required considerable time and expense. ✓

NOTE:

Due to the absence of low tides at the time of the survey, the low water limits could not be obtained. ✓

Respectfully submitted,

Ernest B. Lewey

Ernest B. Lewey,
Jr. H. & G. E., C. & G. S.,
U.S.C. & G.S.S. EXPLORER.

Approved and forwarded,

Jack Senior

Jack Senior,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.

*Sheet P (1934) examined
& approved.
J. Senior.*

*All low water limits will
be obtained by hydrographer.
JES*

STATISTICS

Number of statute miles of shoreline..... 3.8
Number of statute miles of streets..... 4.1
Number of statute miles of street car lines..... 2.5
Number of square statute miles of area surveyed..... 0.4
Number of elevations determined..... 18

Survey No. T6332

Date. July 30, 1935

GEOGRAPHIC NAMES
WASHINGTON

Chart No. 6450;6460

Diagram No. 6450-2; 6460-2

Approved by the Division of Geographic Names, Department of Interior. *

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

[illegible]

REVIEW OF TOPOGRAPHIC SURVEY No. 6332 (1934) FNo. P.

Title (Par. 56) *Duwamish Head to Alki Point, Puget Sound, Washington*Chief of Party *Jack Senior* Surveyed by *E. B. Lewey* Inked by *E. B. Lewey*Ship *Explorer* Instructions dated *Mar. 29, 1934* Surveyed in *Oct. 1934*.

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for -contours-~~formlines~~- was accomplished. (Par. 18, 19, 20, 21, 22, 23.) ✓
see par. 6 below.
5. The delineation of -contours-~~formlines~~- is satisfactory. (Par. 49, 50.) ✓
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *Two blueprints with photostat reductions were transmitted by the field party as authority for the contours on the sheet. The blueprints have not been filed. (See Par. 5 pg. 1 D.R.)*
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
There is no marsh or mangrove on this sheet.
8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
10. The span, draw and clearance of bridges are shown. (Par. 16c.) ✓
There are no bridges on this sheet.
11. Locations and elevations of summits are given. (Par. 19, 51.)
see par. 6 above.
12. ~~The tree line was shown on mountains. (Par. 16g.)~~

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) ✓
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *The error of the declinator is not given but the declination is stated in arc on the magnetic meridian.* ✓
18. The geographic datum of the sheet is *North American 1927* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report, ~~after review by~~ ✓
24. Remarks:

Reviewed in office by *R. J. Christman, March 13, 1936.*

Examined and approved: *Inspected by A. L. Shalowitz*

C. H. Green
Chief, Section of Field Records

L. O. Dolbert
Chief, Division of Charts

Fred L. Peacock
Chief, Section of Field Work

Glenn
Chief, Division of Hyd. and Top.