8702
8703

Diag'd. on diag. ch. No. 6154

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photographic

Field No. T-8702 & *Office No.* T-8703

LOCALITY

State Oregon

General locality Clackamas County

Locality Clackamas and Milwaukie

194 7

CHIEF OF PARTY

R.A. Earle

LIBRARY & ARCHIVES

DATE December 26, 1947

8-1870-1 (1)

8702
8703

RECORD SHEET

Div. of Photogrammetry
Graphic Compilation Sect.

GENERAL LOCALITY Clackamas Co., Oregon

LOCALITY Milwaukie, Oregon

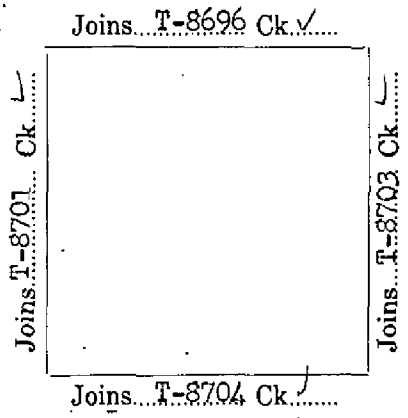
SHEET NO. T-8702

PROJECT NO. CS-322

SCALE 1:8000

PHOTOS ORDERED Aug., 1945 REC'D 9-24 & 9-26-45

PROJECTION ORDERED Oct. 1945 REC'D 11-6-45



CONTROL:
COMPUTED Harris VERIFIED Jeeter

PLOTTED Bunce VERIFIED Harris

PHOTO PREPARATION:
CONTROL Harris

AZIMUTHS Letson

PASS POINTS Jeeter

TEMPLETS Bunce VERIFIED Jeeter

RADIAL PLOT:
PLOTTED BY Jeeter-Harris DATE 2-26-46

VERIFIED J. E. Deal, Jr. DATE 2-27-46

DATE OF PHOTOS See reverse side

TIME OF PHOTOS "

STAGE OF TIDE "

COMPILATION: J.L. Harris Date: 4-1-46 (shoreline)
DETAIL POINTS R. Davidson DATE 5-3-46 (interior)
C. Wiebe Date: 4-10-46 (shoreline)
DETAIL BY R.A. Davidson DATE 7-19-46 (interior)

VERIFIED BY Ree H. Barrom DATE 8-3-46

COMPARISON WITH PREVIOUS SURVEYS; TOPO., HYDRO., AND CHARTS:

Due to scale difference only a visual comparison was made with the U.S.G.S. Oregon City, Oregon 15 min. quadrangle scale, 1:62500. The planimetry common to the map manuscript and the 15 min. quadrangle map is in general agreement. Many new roads, buildings and other man made features have been built in the area since the U.S.G.S. 15 min. quadrangle map was compiled. The location of some of the (over)

REMARKS

All corrections and additions which were found during the field edit were applied to the map manuscript and a final compilation office review was then made.

FORWARDED TO Washington Office DATE 7 February 1947

R. A. Earle
Chief of Party

M-2305-12

drainage shown on the quadrangle map could not be verified. There are no Nautical Charts of this part of the Willamette River. No previous topographic surveys of the area were available to this compilation office for comparison purposes.

PHOTOGRAPH DATA

Number	Date	Time	Scale	Stage of Tide
			1:17000 contact	
704 to 708 Inc.	7-1-45	10:35	1: 8000 ratio	11.7 ft. above M.L.W.
776 to 779 "	7-1-45	12:20	"	11.7 ft. " "
3493 & 3494	11-21-45	13:15	"	5.0 ft. " "
U. S. Engineers				
26V - 13 to 16	8-10-1944	12:42	1: 8000 ratio	3.3 ft. " "
103V - 138 to 142	9-26-1944	15:30	"	1.7 ft. " "

Form T-1

DATA RECORD

T- 8702 (Field Book with Sextant Cuts)

Quadrangle (II): Milwaukie, Oregon (3 minute) **Project No. (II):** CS-322

Field Office: Portland, Oregon **Chief of Party:** R. A. Earle

Compilation Office: Portland, Ore. **Chief of Party:** R. A. Earle

Instructions dated (II III): July 12, 1945
Supplemental Instructions: Aug. 29, Sept. 10, Oct. 25, Nov. 30 and Dec. 6, 1945
Copy filed in ~~Descriptive Report No. T-~~ (VI) Div. Photogram. Office Files

Completed survey received in office: 11 Feb. 1947

Reported to Nautical Chart Section: -

Reviewed: 27 June, 1947 **Applied to chart No.** 6171 **Date:** 3/8/48

Redrafting Completed: 21 July, 1947

Registered: ~~Dec. Nov.~~ 1947 **Published:** 1947

Compilation Scale: 1:8000 **Published Scale:** 1:9600

Scale Factor (III): None

Geographic Datum (III): N. A. 1927 **Datum Plane (III):** * See below

Reference Station (III): Oak Grove GREEN TANK FINIAL, 1945

Lat.: 45° 24' 56.714" (1750.9m) **Long.:** 122° 36' 57.616" (1252.7m) **Adjusted** G.P.'s p. 933
56.714 (1750.9m) 57.613 (1252.7m) ~~Unadjusted X~~
Field computation

State Plane Coordinates (VI):

X = **Y =**

Military Grid Zone (VI)

* (M.H.W. = 6.29 ft. above Mean Sea Level) (M.L.W. = 1.29 ft. above Mean Sea Level)
All elevations are on the Standard 1929 general adjustment of leveling in the U.S.A.

jhw

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
			1:17000 contact	
704 to 708 Inc.	7-1-45	10:35	1: 8000 ratio	11.7 ft. above M.L.W.*
776 to 779 "	7-1-45	12:20	"	11.7 ft. " "
3493 to 3494	11-21-45	13:15	"	5.0 ft. " "
U. S. Engineers				
26V - 13 to 16 Inc.	8-10-44	12:42	1:8000 ratio	3.3 ft. " "
103V - 138 to 142	9-26-44	15:30	"	1.7 ft. " "

Tide from (III): Daily readings of the U. S. Engineers tide gauge located at Government Moorings on the West Shore of the Willamette River just south of St. Johns Bridge. The 0+00 of the gauge is M.L.W., Columbia River which is 1.29 ft. above Mean Sea Level.

Mean Range: **Spring Range:**

Camera: (Kind or source) K 17, focal length 12 inches

Field Inspection by: See remarks, page 3 **date:**

Field Edit by: J. H. Winniford, Photo. Aid **date:** Dec., 1946

Date of Mean High-Water Line Location (III): December 15, 1945

Note: According to supplemental instructions dated Sept. 10, 1945, a high-water line of 5.0 ft. above Mean Low Water is to be shown on the map manuscripts. A high-water line at this plane was determined by field inspection and shown on the U. S. Engineers photographs taken in August and September, 1944.

Projection and Grids ruled by (III) Washington Office **date:** Oct. 1945

" " " **checked by:** Washington Office **date:** Oct. 1945

Control plotted by: Eda H. Bunce **date:** Jan. 1946

Control checked by: Fred P. Jeeter **date:** Jan. 1946

Radial Plot by: James L. Harris and F. P. Jeeter **date:** Feb. 27, 1946

Detailed by: Carita C. Wiebe - Shoreline
Roy A. Davidson - Interior **date:** July, 19, 1946

Reviewed in compilation office by: Ree H. Barron **date:** Aug. 3, 1946

Corrections and changes after field edit by: Ree H. Barron **date:** Jan. 30, 1947
Review after changes due to field edit by: Roy A. Davidson **date:** Jan. 31, 1947

Elevations on Field Edit Sheet checked by: Charles Hanavich, Topo. Engr. **date:** Dec. 1946

STATISTICS (III)

Land Area (Sq. Statute Miles): 8.2

Shoreline (More than 200 meters to opposite shore): 4.4 Statute miles

Shoreline (Less than 200 meters to opposite shore): 1.2

Number of Recoverable Topographic Stations established: 3
(All fixed aids to navigation)

Number of Temporary Hydrographic Stations located by radial plot: 21

Leveling (to control contours) - miles:

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

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

Remarks:

Field Inspection by: L. Mac Arthur, Photo. Aid, J.H. Winniford date: Jan. 1946
Recovery of Horizontal Control by: None
Recovery of Vertical Control by: J. H. Winniford, Photo. Aid date: Oct. 1945
Shoreline Inspection by: J. C. LaJoye, Prin. Photo. Aid date: Dec. 1945
Investigation of Geographic
Names and Civil Boundaries by: L. E. Ervast, Photo. Aid date: April, 1946

RECORD SHEET

Div. of Photogrammetry
Graphic Compilation Sect.

GENERAL LOCALITY Clackamas Co., Oregon

LOCALITY Clackamas

PHOTOS ORDERED Aug., 1945 REC'D 9-24 & 9-26-1945

PROJECTION ORDERED Oct. 1945 REC'D 11-1-45

CONTROL:
COMPUTED Harris VERIFIED Bunce

PLOTTED Bunce VERIFIED Harris

PHOTO PREPARATION:
CONTROL Jeeter

AZIMUTHS Letson

PASS POINTS Jeeter
Bunce

TEMPLETS Jeeter VERIFIED Harris

RADIAL PLOT:
PLOTTED BY Harris-Jeeter DATE 2-26-46

VERIFIED J. E. Deal, Jr. DATE 2-27-46

COMPILATION:
DETAIL POINTS Pomeroy DATE 4-25-46

DETAIL BY Pomeroy DATE 7-17-46

VERIFIED BY Barron DATE 8-16-46

SHEET NO. T-8703

PROJECT NO. CS-322

SCALE 1:8000

Joins T-8697 Ck

Joins T-8702 Ck

Joins None Ck

Joins T-8705 Ck

DATE OF PHOTOS 776 to 779: 7-1-45
1144 to 1147: 7-2-45

TIME OF PHOTOS 776 to 779: 12:20
1144 to 1147: 10:20

STAGE OF TIDE There are no tidal waters within the limits of this map manuscript.

COMPARISON WITH PREVIOUS SURVEYS; TOPO., HYDRO., AND CHARTS:

Due to scale difference only a visual comparison was made with the U.S.G.S. Oregon City, Ore. 15 min quadrangle, scale, 1:62500. The planimetry common to the map manuscript and the 15 min. quadrangle map is in general agreement. Many new roads, buildings and other man made features have been built in the area since the U.S.G.S. 15 min. quadrangle map was compiled. The location of some (over)

REMARKS

All corrections and additions which were found during the field edit were applied to the map manuscript and a final compilation office review was then made.

FORWARDED TO Washington Office DATE 7 February 1947

R. A. Earle
Chief of Party

M-2305-12

of the drainage shown on the quadrangle map could not be verified.

There are no nautical charts of the area.

No previous topographic surveys of the area were available to the compilation office for comparison purposes.

Form T-1

DATA RECORD

T- 8703

Quadrangle (II): CLACKAMAS, OREGON (3 minute) **Project No. (II):** CS-322

Field Office: Portland, Oregon **Chief of Party:** R. A. Earle

Compilation Office: Portland, Ore. **Chief of Party:** R. A. Earle

Instructions dated (II III): July 12, 1945 **Copy filed in Descriptive Report No. T-** (VI)
Supplemental Instructions: Aug.29, Sept.10, Oct.25, Nov.30 and Dec. 6, 1945.

Completed survey received in office: 11 Feb. 1947

Reported to Nautical Chart Section: -

Reviewed: 3 July, 1947 **Applied to chart No.** **Date:**

Redrafting Completed: 21 July, 1947

Registered: ~~18 Nov.~~ Dec. 1947 **Published:** 1947

Compilation Scale: 1:8000 **Published Scale:** 1:9600

Scale Factor (III): None

Geographic Datum (III): 1927, N.A. **Datum Plane (III):** * See below

Reference Station (III): ERNE (USE) OREG., 1916, r 1945.

Lat.: 45° 24' 37.386" (1154.3m) **Long.:** 122° 34' 01.795" (39.2m) **Adjusted Position:** "Horizontal & Vertical Control Data, Oregon City Quad. OREG" **Unadjusted** Issued by: Office Chief of Engineers, Washington D. C. 1943.

State Plane Coordinates (VI):

X = **Y =**

Military Grid Zone (VI)

*(M.H.W. - 6.29 ft. above Mean Sea Level) (M.L.W. - 1.29 ft. above Mean Sea Level)
All elevations are on the Standard 1929 general adjustment of leveling in the U.S.A.

gad

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
776 to 779 Incl.	7-1-45	12:20	1:17000 contact 1: 8000 ratio	There are no tidal waters within the limits of this map manuscript.
1144 to 1147 "	7-1-45	10:20	"	

Tide from (III): None

Mean Range: **Spring Range:**

Camera: (Kind or source) K 17, focal length 12 inches.

Field Inspection by: See remarks, page 3 **date:**

Field Edit by: F. H. Elrod, Prin. Photo. Aid **date:** June, 1946

Date of Mean High-Water Line Location (III):

Projection and Grids ruled by (III) Washington Office **date:** Oct. 1945

" " " **checked by:** Washington Office **date:** Oct. 1945

Control plotted by: Eda H. Bunce **date:** Jan. 1946

Control checked by: James L. Harris **date:** Jan. 1946

Radial Plot by: James L. Harris & F. P. Jeeter **date:** Feb. 27, 1946

Detailed by: Ramona Pomeroy **date:** July 17, 1946

Reviewed in compilation office by: Ree H. Barron **date:** Aug. 16, 1946
Corrections and Changes after Field Edit by: Ree H. Barron date: Jan. 31, 1947
Review after Changes due to Field Edit by: Roy A. Davidson date: Feb. 3, 1947
Elevations on Field Edit Sheet checked by: Charles Hanavich, Topo. Engr. **date:** June, 1946

STATISTICS (III)

Land Area (Sq. Statute Miles): 8.4

Shoreline (More than 200 meters to opposite shore): None

Shoreline (Less than 200 meters to opposite shore): None

Number of Recoverable Topographic Stations established: 5
(2 section corners, 2 aeronautical aids and 1 interior landmark)

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles:

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

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

Remarks:

Field Inspection by: L. Mac Arthur, Photo. Aid date: Jan. 1946

Recovery of Horizontal Control by: F.H. Elrod, Prin. Photo. Aid date: Nov. 1945

Recovery of Vertical Control by: J.H. Winniford, Photo. Aid date: Oct. 1945

Investigation of Geographic
Names and Civil Boundaries by: L. E. Ervast, Photo Aid date: May, 1946

Amendment to File Data

Since project CS-322 was reviewed and registered, it was decided that a Completion Report for each project would be written and filed in the Bureau of Archives. This Completion Report should include all special reports, correspondence of probably future interest or importance, a project layout, a photo index, and a copy of the initial and supplementary project instructions.

A special file has been set up in the library for Division of Photogrammetry projects. The Completion Report and other special reports will be filed under the project number, and these will be arranged in numerical order.

The following reports and records for project CS-322 are now filed in the Bureau Archives, rather than according to the red notes in the Descriptive Reports:

		Access No.
A.	Special Reports:	
	1. Investigation of Boundary Monuments and Land Lines for Radial Plots 1, 2, 3, and 4	CS-322 Rept. 1
	2. Radial Plots 1, 2, 3, and 4	" " 2
	3. Legal descriptions of boundaries	" " 3
	4. Field Inspection for plots 1, 2, 3, and 4	" " 4
B.	Computations: Triangulation and Traverse	943/GTZ G-6785
C.	Field records:	
	1. Horizontal Angles (form 250) 12 vol.	943/GH G-7082
	2. Traverse Measurements (form 590) 9 vol.	943/GB G-7083
	3. Descriptions (form 525) and recoveries (form 526)	943/GA G-6786
	4. Prisking cards (form M-982-1) for tri. and Trav.	Div. of Photogrammetry General File
	5. Recoverable Topographic stations (form 524)	Div. of Photogrammetry General File
D.	Recovery of bench marks (form 685)	Filed in Leveling Sec.
E.	Supplemental data: maps, plans	

These were transferred to the Map Section (Mr. Stanley, Chief), Division of Charts, to be selectively filed or discarded.

LTS
January 1951

COMPILATION REPORT
Map Manuscripts T-8702 and T-8703
Project CS-322

26. Control:

At the time this project was started there were no existing horizontal control stations within the area of Map Manuscript No. T-8702. Five stations of a traverse, established by the U. S. Engineers, which were located along Oregon State Highway No. 213 fell in the area of Map Manuscript No. T-8703. Three of these traverse stations were recovered and two were identified for use in the radial plot. The field unit established one triangulation station in the area of T-8702. Oak Grove, Green Tank Finial, 1945 (G.P.s. p. 933)

A complete tabulation of the horizontal control stations which were originally in the area of these two map manuscripts is attached to the "Field Inspection Report, Project CS-322, Area of the Third Radial Plot", which is included with this descriptive report.
→ Filed in Div. of Photogram. General Files under "Special Reports".

The additional horizontal control station which was established in 1945, is listed in a tabulation which is attached to a special report, "Third-Order Triangulation and Traverse, Project CS-322, Area of the Third Radial Plot", which is being forwarded to the Washington Office.
→ Filed in Library & Archives under G-6785

27. Radial Plot:

The facts concerning the radial plot for the area of these two map manuscripts have been fully covered in the "Descriptive Report, Third Radial Plot, Project CS-322", which is attached.
→ Filed in Div. of Photogram. General Files under "Special Reports".

28. Detailing:

Compilation was done in accordance with instructions for Project CS-322 and special instructions applicable to planimetric mapping.

The high-water line and shoreline features were delineated and detailed from photographs obtained from the office of the U. S. Engineer Corps, Portland, Oregon, and ratio printed at a scale of 1:8000 by the Coast & Geodetic Survey in the Washington Office. In all inland areas the original photography was adequate. The 1:5000 scale contact prints, taken along the shorelines of the Willamette River, were a great help in interpreting detail.

In some cases it was difficult to interpret, from the ratio print, the correct shape and size of buildings. This was attributed to the loss of sharpness when the contact prints were enlarged.

When any item relative to the field inspection data was doubtful, it could be clarified by consultation with the field man who had done the

inspection work. It was, therefore, unnecessary to make descrepancy overlays for the field edit work.

The classification symbols for tree or brush areas are placed on the inside of the curled line which denotes the limits of said areas. These curled lines and the letter symbols are in green acid ink.

All boundary and land claim lines are shown by appropriate symbols in red acid ink. A legend shown in the margin of each map manuscript identifies these lines.

Pertinent notes, relative to various items, have been lettered in the margins of the map manuscripts.

29. Supplemental Data:

The following plan, which will be forwarded with the map manuscripts, was used to supplement the photographs:

Blueprint, Camp Withycombe, Clackamas, Oregon. Scale: 1" = 200'
→ Filed with map manuscript T-8703

The following map, which was used for reference purposes only, was forwarded to the Washington Office on 15 July 1946, with the special report "Investigation of Boundary Monuments and Lines, Area of the First Radial Plot":
→ Filed in Div. of Photogram. General Files under "Special Reports."

Map of Clackamas County, Oregon. in Project file

30. Mean High-Water Line:

There are no high-water lines within the area of Map Manuscript No. T-8703, however, portions of the Willamette River fall within the area of Map Manuscript No. T-8702.

All of the high-water line was detailed from information submitted by the field units, which was shown on single lens ratio prints, scale 1:8000. These photographs were taken by the U. S. Engineers at a contact scale of 1:10,000 on 10 August 1944, when the water level of the Willamette River was 3.3 ft. above M.L.W. and on 26 September 1944, when the water level was 1.7 ft. above M.L.W. The field inspector's interpretation of the high-water line was verified by stereoscopic examination of the photographs before detailing was attempted.

The mean high-water line is shown by a continuous heavy-weight black acid ink line at a plane five feet above the Engineers low-water datum which is 1.29 ft. above mean sea level.

There are no marsh areas immediately bordering the high-water line.

31. Low-Water and Shoal Lines:

The field inspection unit did not indicate any low-water or shoal lines within the limits of T-8702.

32. Details Offshore from the Mean High-Water Line:

There are no details offshore from the Mean High-Water Line.

33. Wharves and Shoreline Structures:

All piers, wharves, dolphins, piling areas, etc. have been shown. Most of the dolphins and piling areas have been indicated by the field inspection unit on the 1:5000 scale contact prints and cross refereneed to the U. S. Engineers photographs.

34. Landmarks and Aids to Navigation:

In the area of T-8702, Forms 567 are being submitted recommending the charting of the following fixed aids to navigation:

CHRISTIE LIGHT ELK ROCK LIGHT MILWAUKIE LIGHT

35. Hydrographic Control:

In the area of T-8702 twenty objects were located radially and one by a sextant fix, for use as temporary hydrographic signals. These were used during the recent hydrographic survey of this part of the Willamette River by the ship "Westdahl". They are shown on the map manuscript with 2.0 mm circles in black acid ink and a short description is lettered nearby. This office compiled the shoreline and adjacent detail on Map Manuscript No. T-8702 in March 1946, and furnished the ship "Westdahl" with black and white prints at a scale of 1:5000.

36. Landing Fields and Aeronautical Aids:

There are no landing fields within the limits of these two map manuscripts. In the area of T-8703, Forms 567 are being submitted recommending the charting of the following objects as aeronautical aids:

KXL, West Radio Mast KXL, East Radio Mast

37. Geographic Names:

Only undisputed geographic names are shown on the map manuscripts. Geographic names are the subject of a special report, "Investigation of Geographic Names, Project CS-322, Area of the Third Radial Plot", 814 ✓ which will be submitted.

Filed in Geographic Names Section, Div. of Charts

38. Recoverable Topographic Stations:

In the area of Map Manuscript No. T-8702, copies of Forms 524 are being submitted for the following:

CHRISTIE LIGHT, 1945 ELK ROCK LIGHT, 1945
MILWAUKIE LIGHT, 1945

I-8702
4 recov
3 plotted

I-8703
8 recov
8 plotted

In the area of Map Manuscript No. T-8703, copies of Forms 524 are being submitted for the following:

- KXL WEST RADIO MAST, 1946
- KXL EAST RADIO MAST, 1946
- CLACKAMAS GREENHOUSE WATER TANK (elevated), 1946
- T 1S-2S R 2E Section Corner 3-4-33-34, 1946
- T 2S R 2E Section Corner 9-10-15-16, 1946

39. Junctions:

Complete and satisfactory junctions have been made between Map Manuscripts T-8702 and T-8703 and with adjoining map manuscripts.

40. Bench Marks:

Bench marks have been detailed as identified by the field inspection units. Each bench mark is indicated by a black acid ink cross with the name and elevation to the nearest 1/10 ft. lettered nearby.

41. Donation Land Claims and Section Lines:

Donation land claim lines and section lines were detailed on these two map manuscripts as shown on the contact photographs by the field inspection unit.

44. Comparison with Existing Topographic Surveys:

See record sheet which accompanies each map manuscript.

45. Comparison with Nautical Charts:

See record sheet which accompanies each map manuscript.

Approved and forwarded:

Robert A. Earle
Chief of Party

Respectfully submitted:
5 February 1947

J. Edward Deal, Jr.
Photogrammetric Engineer

FIELD EDIT REPORT
T-8702 and T-8703
Project CS-322

46. Methods:

These map manuscripts were field edited in accordance with the Field Edit Instructions dated 24 August 1945. All corrections and additions have been made accurately on the field edit prints in colored ink, or the place where a correction or addition is to be made has been indicated by a note which refers to a field photograph. All features which are to be deleted have been crossed out in colored ink.

New buildings were located either by pacing or taping and are shown on the field edit prints. A legend on each of these prints will furnish a key to all the symbols and to the different colored inks used.

47. Adequacy of the Compilation:

The planimetry as delineated on the map manuscripts may be considered as complete and adequate with respect to the corresponding ground detail. Except for the deletions, corrections, additions, and notations made on the field edit prints, it is accurate, also in regard to relative position.

Any omissions or drafting of detail that seemed to be questionable was called to the attention of the Compilation Office by notes. The names of streets and roads, which were added, were obtained from posted signs or other local official sources. Small barns and shacks, which were compiled, were deleted. In the southern and central parts of Quadrangle T-8702 extensive building and development is in progress and many new houses were added. Several newly constructed short roads were located by planetable methods or field measurements and have been indicated either on the ozalid print or on a field photograph.

In T-8703, State Highway 213 was designated as Military By-Pass 99E. This was a wartime provision and the road should no longer bear this designation. Other minor changes and omissions were noted and corrected in the area of this sheet as well as in T-8702.

All offshore and shoreline features were checked in T-8702. Several dolphins, which were missed during the field inspection on the east side of the Willamette River and south of Elk Rock Island, were added.

In accordance with the field edit instructions, the map manuscripts were examined for completeness and accuracy in regard to geographic names, boundaries, public land lines, and detail by Mr. R. S. Milne Assistant County Surveyor, Clackamas County Court House, Oregon City, Oregon, in T-8702 and by Mr. D. T. Meldrum, County Engineer of Clackamas County in T-8703. The geographic names in this area have been reviewed by Mr. Lewis A. McArthur, Collaborator for the U. S. Coast and Geodetic Survey.

48. Accuracy Tests:

No horizontal accuracy tests were run in this area. For map accuracy tests near the area of these map manuscripts refer to the field edit report for Quadrangles T-8699 to T-8701 inclusive.

49. Bench Mark Elevations:

The elevations of the bench marks shown on these sheets have been checked.

50. Donation Land Claims and Section Lines:

Although the Donation Land Claim and Section Lines are not shown on the ozalid prints, they had been indicated on field photographs and were compiled on the map manuscripts ~~of~~ at a later date.

51. Geographic Names:

Refer to the "Special Report on Geographic Names, Project CS-322, Area of the Third Radial Plot" for information on the following geographic names:

414

PORTLAND TRACTION COMPANY, DUNTHORPE, BRIARWOOD

Field Edit reviewed by:

Charles Hanavich
Charles Hanavich
Topo. Engineer

Approved by:

Robert A. Earle
Robert A. Earle
Chief of Party

Field Edit by:

John H. Winniford (T-8702)
Photo. Aid

Frank H. Elrod
Frank H. Elrod (T-8703)
Prin. Photo. Aid

Division of Photogrammetry

Review Report of

Planimetric Map Manuscript T-8702

Paragraph numbers not used in this report have been adequately covered in other parts of the descriptive report.

28. Detailing.

Poorly delineated and incorrectly classified woodland areas were altered to agree with the field inspection photographs.

41. Donation Land Claim and Section Lines.

The names of three Donation Land Claims, omitted during compilation, have been added by the reviewer. These names and corrections to boundaries are shown in crayon on an ozalid print, which is being forwarded to the Portland Office for verification.

Letter 14 July 1947 attached hereto.

44. Comparison with Existing Topographic Surveys.

Oregon City, Oregon, U.S.G.S., 1:62,500, 1911-12
Oregon City, Oregon, U.S.E., 1:62,500, 1938-39

The more recent U.S.E. quadrangle is in good agreement with the map manuscript.

45. Comparison with Nautical Charts.

There are no nautical charts or other surveys by the Bureau in the area of this map manuscript.

Reviewed by:

K. N. Maki

K. N. Maki
Photogrammetrist
6-27-47

Reviewed under direction of:

S. V. Griffith

S. V. Griffith
Chief, Review Section

APPROVED BY:

B.G. Jones 12/47
Technical Assistant to the
Chief, Div. of Photogrammetry

K.T. Adams
Chief, Div. of Photogrammetry

Chief, Nautical Chart Br.
Division of Charts

E. F. Green
Chief, Div. of Coastal Surveys

Supplement to the Review Report For
Planimetric Map Manuscripts T-8702 and T-8704

This report states the results of an investigation into the accuracy of hydrographic signals as located by radial plot on map manuscripts T-8702 and T-8704. The investigation was instigated by the Chart Division after sextant angles on the signals did not verify the positions obtained by the radial plot.

They hydrographic signals were selected by a field inspection party of the Division of Photogrammetry, Portland Photogrammetric Office and spotted on aerial photographs. The signals were then located on the map manuscripts by the radial intersection method in the Portland Photogrammetric Office on the 1:8000 scale map manuscripts of the Columbia River, project CS-322. The intermediate steps between the field location and the radial intersecting were, in general, accurately performed.

Rechecking the radial intersections, it was discovered that they had not been made as carefully as they might have been and after adjusting the intersections some of the positions of the signals moved as much as 1.6 mm. The new positions are shown in red acetate ink on the manuscripts.

When these new positions for the signals were plotted on the 1:5000 hydrographic survey No. H-7128, the new positions checked the sextant angles very acceptably.

K. N. Maki
Reviewer

S. V. Griffith
Chief, Review Section

Division of Photogrammetry

Review Report of

Planimetric Map Manuscript T-8703

Paragraph numbers not used in this report have been adequately covered in other parts of the descriptive report.

28. Detailing.

Delineation of the planimetric detail was considered good. A small marsh previously omitted, was added to the map manuscript.

41. Donation Land Claims and Section Lines.

Corrections made to Donation Land Claim boundaries have been shown on an ozalid print of the map manuscript. This is being forwarded to the Portland Office for verification. Letter of 15 July 1947 attached hereto

Section corner 29-30-31-32 was indicated as recovered in the Special Report, Investigation of Boundary Monuments and Lines, Area of the Third Radial Plot. The position of this corner on the map manuscript is not in agreement with the position shown on contact photograph No. 776. Since no recovery or pricking cards were submitted for this corner, it will be considered as " " " unrecovered unless the Field Office can supply additional information.

44. Comparison with Existing Topographic Surveys.

Oregon City, Ore., U.S.G.S. (1:62,500) 1911-12
Oregon City, Ore., U.S.E. (1:62,500) 1938-39

The more recent U.S.E. quadrangle is in good agreement with the map manuscript.

45. Comparison with Nautical Charts.

There are no nautical charts or other surveys by the Bureau in the area of this map manuscript.

Reviewed by:

K. N. Maki

K. N. Maki
Photogrammetrist

7-3-47

Reviewed under direction of:

S. V. Griffith

S. V. Griffith
Chief, Review Section

APPROVED BY:

B.J. Jones 12/47
Technical Assistant to the
Chief, Div. of Photogrammetry

Chief, Nautical Chart Br.
Division of Charts

K.T. Adams
Chief, Div. of Photogrammetry

Chief, Div. of Coastal Surveys

GEOGRAPHIC NAMES

Survey No. T-8702/03

1 T-8702:

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Oregon	✓		•							1
Multnomah County	✓									2
Clackamas County	✓									3
Willamette River	✓									4
Southern Pacific	✓									5
Portland Traction Company	✓									6
U.S. 99 E Pacific Highway East	✓									7
										8
										9
										10
✓ Marylhurst College										11
✓ Rosecliff Hall Christie Light	✓									12
Copelys Rock										13
✓ Rock Island	(to south)									14
✓ Elk Rock Island	(to north)									15
✓ Elk Rock Light										16
✓ Concord School										17
✓ Russell Station										18
✓ Rupert Station										19
✓ Oak Grove										20
✓ Oak Grove Telephone Exchange										21
✓ Oak Grove Lodge Fire Department Engine No. 1										22
✓ Oatfield Hill										23
✓ Oatfield Road										24
✓ Oregon Mushroom Plant										25
✓ Mt. Scott Creek										26
✓ Aldercrest Road										27

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GEOGRAPHIC NAMES

Survey No. T-8702/03

T-8702 (continued):

2 Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Lake Road										1
Milwaukie Foster Highway										2
Milwaukie Heights										3
Robertson										4
Kellogg Lake										5
Kellogg Creek										6
River Road										7
Oak Grove P.O.										8
Oak Grove School										9
Evangelist Church										10
Oak Grove Community ~~Center~~ Club										11
Oak Grove Construction Company										12
Oak Grove Community Church										13
Menefee (r.r. siding on S. Pacific)										
Courteney Station										14
Portland Open Air Sanitorium Sanatorium										15
Briarwood										16
Milwaukie										17
Milwaukie P.O.										18
Milwaukie Union High School										19
Milwaukie Grammar School										20
Milwaukie Lumber Company										21
St. Johns Church, Convent, School										22
Milwaukie Junior High School										23
Emanuel Church										24
St. Johns Episcopal Church										25
Assembly of God Church										26
Milwaukie Light										27

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GEOGRAPHIC NAMES

Survey No. T-8702/03

T-8702 (continued):

3 Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Johnson Creek										1
Waverly Heights										2
Waverly Country Club										3
Bible Broadcasting Association Campmeeting Grounds										4
Masonic Temple										5
McCready Lumber Company										6
Milwaukie Church of Christ (Christian)										7
East Milwaukie										8
Hillside Park Housing Project										9
P & C Hand Forged Tool Company										10
Minthorne										11
Minthorne Community Church										12
Milwaukie Seventh Day Adventist Church										13
Milwaukie Community Clubhouse										14
Wichita School										15
Toolotette Road										16
Concord Road Railroad Avenue										17
Thiessen Road Courteney Road										18
Hill Road Railroad Avenue										19
King Road										20
										21
										22
T-8703:										23
Oregon										24
Clackamas County										25
Southern Pacific										26
Clackamas River										27

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GEOGRAPHIC NAMES

Survey No. T-8702/03

T-8703 (continued):

4

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Kellogg Creek										1
Mt. Scott Creek										2
State Nos. 212, 213										3
Clackamas Greenhouses										4
J.J. Hinkle Company										5
Clackamas										6
Clackamas P.O.										7
Clackamas Station										8
Clackamas Public Library										9
Clackamas Congregational Church										10
Community Full Gospel Church										11
Clackamas School										12
Clackmas Town Hall										13
Camp Withycombe Oregon National Guard Reservation										14
Webster Road										15
Toorlotette Road										16
Root Road										17
Aldercrest Road										18
Thiessen Road										19
Johnson Road										20
Jannsen Road										21
Clackamas Cemetery										22
Oregon State Headquarters Church of the Nazerene										23
Lake Road										24
Harmony School										25
Harmony Evangelical Church										26
Harmony Road										27

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GEOGRAPHIC NAMES

Survey No. T-8702/03

T-8703 (continued):

5 Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
KXL Radio Station										1
Phillips Creek										2
Talberts Hill										3
Sunnyside Road										4
City View Golf Course										5
Stevens Road										6
King Road										7
Wichita										8
Wichita School										9
Monroe ~~Road~~ ST										10
										11
Jennings Avenue										12
Strawberry Avenue										13
Lawnfield Road										14
Railroad Avenue										15
Linwood Avenue										16
Wichita Avenue										17
Causey Avenue										18
Bell Avenue										19
SE 82nd Avenue										20
SE 92nd Avenue										21
										22
										23
										24
										25
										26
										27

Names underlined in red approved by L. Heck 8-5-2014

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Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T-3702
Project OI-322

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

Portland, Oregon January 27, 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 J.W. Neal

R. A. Earle
Chief of Party.

STATE OREGON

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE		LONGITUDE								
			° ′	D.M. METERS	° ′	D.P. METERS							
LIGHT	CHRISTIE LIGHT, Fl. W. 4 sec., SW side Willamette River @ Rock Island	LIGHT	45 24	(1426.0) 426.3	122 38	(277.5) 1027.4	N.A. 1927	Radial Plot	12-12-45				Area not charted
LIGHT	ELK ROCK LIGHT, Fl. W. 4 sec., on Elk Rock Isl. Willamette River	LIGHT	45 26	(1447.4) 404.9	122 38	(134.3) 1169.6	"	"	12-13-45				"
LIGHT	MILWAUKIE LIGHT, F.G., East side of Willamette River @ Milwaukie, Ore.	LIGHT	45 26	(923.6) 928.7	122 38	(629.1) 674.9	"	"	"				"

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.

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T-8703
Project CS-322

NONFLOATING AIDS OR LANDMARKS FOR CHARTS (AERONAUTICAL)

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

Portland, Oregon — January 27, 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 J.H.Neal

R. A. Earle *Chief of Party.*

STATE OREGON

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
RADIO MAST(W)	KXL, West Radio Mast at Clackamas, Oregon	RADIO MAST (W)	45 26	(1536.4) 315.9	122 34	(580.4) 723.7	N.A. 1927	Radial Plot	1-22-46				W-2
RADIO MAST(E)	KXL, East Radio Mast at Clackamas, Oregon	RADIO MAST (E)	45 26	(1535.6) 316.7	122 34	(722.6) 581.5	"	"	"				"

Not in area of chart 6171

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.

KTA
711
78

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
c/o Swan Island Postal Station
Portland 18, Oregon

POST-OFFICE ADDRESS:
TELEGRAPH ADDRESS:
EXPRESS ADDRESS:

FOR VICTORY BUY UNITED STATES WAR BONDS AND STAMPS

14 July 1947

To: Chief, Division of Photogrammetry
U. S. Coast & Geodetic Survey
Washington 25, D. C.

From: Lt. Comdr. R. A. Earle

Subject: Review of Map Manuscript T-8702

Reference: Your Letter, 78-aar, dated 2 July 1947

The changes and additions to the land lines, recommended by the Washington Office Review, have been investigated.

It was found that the donation land claims of Benoni B. Rodgers, F. A. Collard, and Jesse Bullock, were inadvertently omitted on the rough draft map manuscript.] 41

The change in the south line of the Orin Kellogg line is in agreement with records on file in the Clackamas County Courthouse, however, it often happened that when the field inspector investigated these claims on the ground, he found that all records were in disagreement and he was obliged to make an independent interpretation. In this case his interpretation may or may not be in error but as it would take an extensive investigation to disprove the G.L.O. plat data and as the G. L.O. line does not contradict existing planimetry of the published map, it is accepted as shown on the ozalid print of T-8702.

While investigating the changes in the land lines it was found that the donation land claim of Jason Kellogg had also been omitted on the smooth draft map manuscript. It is very faintly indicated on the G.L.O. plat for T 2S R 2E, however, there are no dimensions given to indicate its limits. It has been indicated on the ozalid print of T-8702 in green crayon pencil as it is shown in the records of Clackamas County.

Contact Prints No's. 708 and 778 are being returned with the ozalid print.

R. A. Earle
Chief of Party

RAE/gw

7/28/47

KTA
ZHV 1397
76

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
c/o Swan Island Postal Station
Portland 18, Oregon

POST-OFFICE ADDRESS:
TELEGRAPH ADDRESS:
EXPRESS ADDRESS:

FOR VICTORY BUY UNITED STATES WAR BONDS AND STAMPS

15 July 1947

To: Chief, Division of Photogrammetry
U. S. Coast & Geodetic Survey
Washington 25, D. C.

Subject: Review of Map Manuscript T-8703

Reference: Your Letter, 78-aar, dated 8 July 1947

The corrections and additions to the land lines, as suggested by the Washington Office Review of T-8703, have been investigated. It would require a detailed and expensive investigation to determine why the field man located the claim lines as shown on the map manuscript, however, it is our opinion that he used local information rather than data contained on the G.L.O. plats. As this local information cannot be proven, it is recommended that the corrections as shown in red crayon by the Washington Office be accepted. The new lines do not contradict any planimetric detail of the map manuscript.

It has been found that additional donation land claims should be added as follows:

Sylvester Hathaway ✓	William Phillips ✓
Jacob Scott ✓	Joseph P. Eagon ✓

These claims have been shown in green crayon on the ozalid print of T-8703 and excerpts from copies of the original deeds are written in pencil on the reverse side of the ozalid print. They were found after a search through very old records and are not used to reference other deeds in Clackamas County. The following claims were never recorded in Clackamas County:

Hiram Phillips - M. Phillips -

Section Corner 29-30-31-32, should be shown as compiled on the map manuscript. It's location should have been removed from Contact Photograph No. 776, and it should have been listed in the "Special Report, Boundary Monuments and Lines, Area of the Third Radial Plot", as an unrecovered corner. ✓

R. A. Earle
Lt. Comdr., U.S.C.& G.S.
Chief of Party

RAE/gw

B 7/28/47

NAUTICAL CHARTS BRANCH

SURVEY NO. T 8702

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
3/8/48	6171	J J Walker	[redacted] 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
			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.