

8813

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. _____ Office No. T-8813

LOCALITY

State OREGON

General locality Willamette River

Locality Grand Island

1947

CHIEF OF PARTY

R. A. Earle

LIBRARY & ARCHIVES

DATE January 8, 1948

8813

RECORD SHEET

Div. of Photogrammetry
Graphic Compilation Sect.

GENERAL LOCALITY Willamette River, Oregon

SHEET NO. T-8813

LOCALITY Grand Island

PROJECT NO. Ph-13(46)

PHOTOS ORDERED Dec., 1946 REC'D 14 Jan. 1947

SCALE 1:10,000

PROJECTION ORDERED Dec. 1946 REC'D 3 Feb. 1947

Joins T-8812 Ck ☒

CONTROL:

COMPUTED Harris VERIFIED Davidson

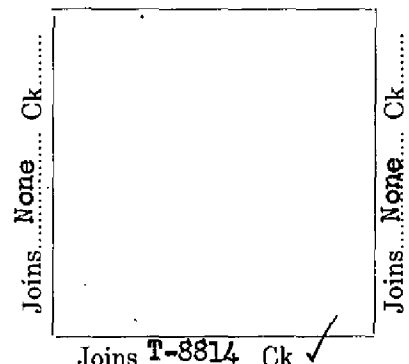
PLOTTED Harris VERIFIED Barron

PHOTO PREPARATION:

CONTROL Harris

AZIMUTHS Davidson

PASS POINTS Letson



TEMPLATES Barron VERIFIED Harris

DATE OF PHOTOS 8-9-46

RADIAL PLOT:

PLOTTED BY Harris DATE 5-9-47

TIME OF PHOTOS 12:27 to 13:07

VERIFIED Deal DATE 5-12-47

Pacific Standard Time

COMPILATION:

DETAIL POINTS Davidson DATE 5-28-47

STAGE OF TIDE Water level is a

DETAIL BY Davidson DATE 7-3-47

gradient between the elevations

VERIFIED BY Barron DATE 7-31-47

above M.S.L. of the 0 +00 of the
U.S.E. river gage.

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

Due to a scale difference only a visual comparison was made with portions of the USGS McMinville, Ore. and Mount Angel, Ore. 15 min. quadrangles. In general the planimetry which is common to the map manuscript and quadrangle maps is in good agreement, however, the following differences were noted: (over)

REMARKS. Complete planimetric detail along both shores of the Willamette River and within a zone averaging 300 meters in width on each side of the river has been compiled. Inshore from this area only skeleton planimetric details are shown.

FORWARDED TO Washington Office DATE 22 August 1947

R. A. Earle
R. A. Earle
Chief of Party

COMPARISONS CONTINUED

1. On the McMinnville Quadrangle, the island shown as Coffee Island is correctly known as Five Islands. Coffee Island is the next small island to the north.
2. A slough shown on the quadrangle map at Jackson Bend is now closed except during extreme flood periods.
3. A pond on the southwest shore of the Willamette River at Lambert Bend has now been filled.
4. A road and intermittent stream west of the Dayton - Salem Highway at Unionville, Oregon, are not in proper relation and are incorrectly located on the quadrangle map.
5. The main road running north and south through Fairfield, Oregon, is shown as a secondary road on the McMinnville Quadrangle Map. On adjoining quadrangle maps the road is shown as a first class road.
6. The water level of the quadrangle maps appears to be higher than that shown on the map manuscripts.

DATA RECORD

T- 8813

McMinnville, Ore.
 Quadrangle (II): Mount Angel, "
 (USGS) 15 minute

Project No. (II): Ph-13(46)

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

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

Instructions dated (II III): 8 October 1946 Copy filed in Descriptive Div. of Photo-
 Supplemental Instructions? 4 November 1946 Report No. T- (VI)
Grammarly Office Files

Completed survey received in office: 8/27/47

Reported to Nautical Chart Section: 9/1/47

Reviewed: 11/5/47 Applied to chart No. — Date: —

Redrafting Completed:

Registered: 12/26/47

Published:

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): * See below

Reference Station (III): URT (USE, 1935), 1946

Lat.: 45 08' 37.405" (1154.7m) Long.: 123 03' 33.846" (739.5m) Adjusted x
 Unadjusted

State Plane Coordinates (VI): OREGON NORTH ZONE (ruled in red on the
 manuscript)

X =

Y =

Military Grid Zone (VI)

The adopted water plane is a gradient between 64.3 ft. above M.S.L. (the zero of the river gage at Upper Five Islands) and 81.2 ft. above M.S.L. (the zero of the river gage at Eldridge Bar). All bench mark elevations are referenced to M.S.L. and are on the standard 1929 general adjustment of leveling in the U. S. A.

PHOTOGRAPHS (III)

<u>Number</u> <u>Nine Lens</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u> <u>Water Level</u>
17282 & 17283	8-9-46	12:28	1:10,000	The water level of the photographs is believed to be close to the adopted water plane.
17301 to 17302A Inc.	"	12:50	"	
17309 to 17311	"	13:07	"	

Tide from (III): None

Mean Range: None

Spring Range: None

Camera: (Kind or source) USC&GS Nine lens, focal length 8.25 inches.

	J. C. LaJoye (Shoreline)	March, 1947
Field Inspection by:	J. Winniford (Interior)	date: March, 1947
	J. Winniford (Geographic Names)	February, 1947

Field Edit by: *None* date:

Date of Mean High-Water Line Location (III): March, 1947

Projection and Grids ruled by (III) Washington Office date: January, 1947

" " " checked by: Washington Office date: January, 1947

Control plotted by: J. L. Harris date: April, 1947

Control checked by: R. H. Barron date: April, 1947

Radial Plot by: J. L. Harris & J. E. Deal date: 12 May 1947

Detailed by: R. A. Davidson date: 3 July 1947

Reviewed in compilation office by: R. H. Barron date: 31 July 1947

Elevations on Field Edit Sheet
checked by: None date:

STATISTICS (III)

4.5 sq. miles (complete detail)

Land Area (Sq. Statute Miles): 23.1 " (skeleton detail)

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

Shoreline (Less than 200 meters to opposite shore): 15.0 statute miles
(Measured along centerline of rivers)

Number of Recoverable Topographic Stations established: 12

Number of Temporary Hydrographic Stations located by radial plot: 52

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:

MAP T- 8813

PROJECT NO. Ph-13(46)

SCALE OF MAP 1:10,000

SCALE FACTOR

None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	REMARKS TEXT OF DISTANCE FROM GRID OR PROJECTION LINE IN METERS - FORWARD - - (BACK) -
TUG (USE 1935)							Not used in Rad. Pl. Az.mk.for URT.
ALDERMAN FARMS TANK, 1946	G 6734 page 880	N. A. 1927	45° 09' 21.523" 123 03 19.046	664.4 (1187.8) 416.0 (894.6)			Used in Rad. Pl.
URT (USE) 1946	"	"	45° 08' 37.405" 123 03 33.846	1154.7 (697.5) 739.5 (571.4)			Used in Rad. Pl.
PTS 5 USGS (USE 1935-36)	USE Adj. in Comp. Office	"	45° 07' 45.601" 123 03 36.666	1407.7 (444.5) 861.3 (509.9)			Used in Rad. Pl.
WES (USE 1935- 36)							Not searched for
UEE (USE 1936)							Not searched for
TUD (USE 1935-36)							Not searched for
SAG (USE 1935- 36)	USE Adj. in Comp. Office	"	45° 08' 14.039" 123 00 21.040	433.4 (1418.8) 459.7 (851.3)			Used in Rad. Pl.
PTS 83 (USE 1935- 36)							Not searched for
QUET (USE 1936)							Not searched for
PTS 18 (USGS 1924)	USE Adj. in Comp. Office	"	45° 07' 39.711" 123 06 56.696	1225.9 (626.3) 1239.1 (72.2)			Used in Rad. Pl.
OCO (USE 1936)	"	"	45° 06' 55.146" 122 58 10.636	1702.4 (149.8) 232.5 (1079.0)			Used in Rad. Pl.

1 FT. = 3048006 METER

COMPUTED BY: J. L. Harris

DATE March, 1947

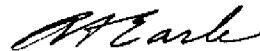
CHECKED BY: R. A. Davidson

DATE March, 1947

M-2388-12

FIELD INSPECTION REPORT
Sheet T-8813 Project Ph-13(46)

1 to 25: All information that is applicable to these side headings is given in the "Field Inspection Report" Sheets T-8812 to T-8816 inclusive, Project Ph-13 (46)". This report was included in the "Descriptive Report" for Sheet T-8812, which has been forwarded.



R. A. Earle
Chief of Party

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COMPILATION REPORT
Map Manuscript T-8813
Project Ph-13(46)

26. Control:

Six horizontal control stations were recovered and satisfactorily identified by the field unit in the area of this map manuscript. They were well spaced and were adequate for use in controlling the photographs during the running of the radial plot.

The geographic positions of several traverse stations in the area which had been established or relocated by the U. S. Engineers, were readjusted in the following manner:

The differences between the positions published by the U. S. Engineers and that determined by the U. S. Coast & Geodetic Survey for other stations in the same lines were computed. These differences were then proportioned according to distances between stations and a correction applied to the original position of each traverse station.

The horizontal control stations of all federal agencies, which fall in the area of this map manuscript, have been tabulated on Form M-2388-12 which is attached to this descriptive report. A special column headed "Remarks", has been added to the form. In this column a short note has been entered which explains the manner in which the station was used.

The published positions of the U. S. Engineer and U. S. Geological Survey stations which were not searched for by the field unit, have not been shown in the tabulation. These stations were not plotted on the map manuscript.

27. Radial Plot:

This map manuscript is part of Radial Plot No. 2, Project Ph-13(46), which includes Map Manuscripts T-8812 to T-8816 inclusive.

The radial plot was completed in the same manner as described for Radial Plot No. 1 of this project. The methods and a complete discussion of the various operations relative to work on the photographs, templates, and map manuscripts may be found in paragraph 27 of the Descriptive Report for Map Manuscript T-8809.

28. Detailing:

Compilation was done in accordance with instructions for Project Ph-13(46). Special care was taken to see that the requirements of paragraph 34 of the instructions were met.

The transforming printer at the Washington Office was not in proper adjustment at the time the photographs were printed and they could not be oriented in their entirety at the compilation table when radially plotting various

types of pass points. Enough pass points had, however, been established during the radial plot so that each chamber of each photograph could be separately oriented. For at least two of the chambers on each photograph, it was found necessary to de-center the photograph radially, to or from the chamber being oriented, so that the radials to the pass points and horizontal control stations in the chamber would pass through their positions on the map manuscript.

Due to shadows and overhanging trees along the banks of the rivers, it was often impossible to get more than a two radial intersection, on some of the detail pass points which were used to compile the shorelines. These two radial intersection points have been shown with a small circle in green ink on the reverse side of the map manuscript.

The photograph coverage was adequate and very little trouble was encountered in interpreting the planimetric details.

All planimetric features have been compiled, within a zone averaging 300 meters in width, along both shores of the Willamette River. Inshore from this zone only skeleton planimetric details have been shown. The detailing limits of the map manuscript were taken from the index map furnished the compilation office and are shown with a light full line in green acid ink.

This map manuscript is relatively a smooth drawing and all symbols have been drafted to conform with samples furnished the compilation office or with symbols shown on similar planimetric maps which have recently been published by the U. S. Coast & Geodetic Survey.

The heights of bluffs were indicated by the field inspector. Their location was interpreted by the compiler with the aid of the stereoscope. Shoreline features and drainage were also delineated by extensive use of the stereoscope, however, it was often necessary to detail the field inspector's interpretation of drainage through thickly wooded areas. This was done only when it was impossible to determine the location of drainage by stereoscopic examination of the photographs.

29. Supplemental Data:

No supplemental data was used in the area of this map manuscript.

30. Mean High-Water Line: (River shoreline at the adopted plane of reference)

A complete discussion of this feature can be found in paragraph 7 of the Field Inspection Report, Sheets T-8812 to T-8816 inclusive. (T-8812)

The mean high-water line (River shoreline at the adopted plane of reference) is shown by a continuous black acid ink line .008" in thickness at a plane that is a gradient between 64.3 ft. above M.S.L. (the elevation of the zero of the U.S.E. river gage at Upper Five Islands) and 81.2 ft. above M.S.L. (the elevation of the zero of the U.S.E. river gage at Eldridge Bar.)

There are no marsh areas immediately bordering the shoreline.

31. Low-Water and Shoal Lines:

The approximate limits of several small shoal areas have been detailed as indicated by the field inspection unit.

The field inspection unit did not indicate any low-water lines within the area of this map manuscript.

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

There are no details offshore from the mean high-water line within the limits of this map manuscript.

33. Wharves and Shoreline Structures:

Several pile jetties have been shown as indicated by the field inspection unit.

34. Landmarks and Aids to Navigation:

There are no fixed aids to navigation within the limits of this map manuscript. Form 567 is being submitted recommending the charting of S. W. GABLE as a nautical landmark.

35. Hydrographic Control:

A complete discussion of this subject can be found in paragraph 12 of the Field Inspection Report, Sheets 8812 to 8816 inclusive, Project Ph-13(46), which was forwarded in the Descriptive Report of Sheet 8812.

It is believed that the field unit, in an attempt to satisfy the minimum hydrographic control requirements for this project, may have selected a few temporary signals that were of doubtful identity on the photographs or located them by methods which were not too strong. A small (d) has been lettered behind the assigned number of several stations to indicate that their location is doubtful. Since the lists of hydrographic signals have been forwarded to Washington, the doubtful signals are herein listed, so that they may be indicated on the list of hydrographic signals furnished the hydrographic party, for this map manuscript. They are:

1307	1314	1320	1345
1310	1315	1339	1348
1313	1319	1343	

*These signals have
been deleted from
the map manuscript.
B.T.H.*

It is believed that a sufficient number of well located signals have been established which may be used by the hydrographic party for establishing additional signals at the time the hydrographic survey is made.

A list of fifty-two hydrographic signal sites, which fall in the area of this map manuscript, is attached to the Field Inspection Report, Sheets 8812 to 8816 inclusive, Project Ph-13(46). (T-8812)

36. Landing Fields and Aeronautical Aids:

There are no landing fields or aeronautical aids within the limits of this map manuscript.

37. Geographic Names: 814 ✓

Geographic names are the subject of a special report, Investigation of Geographic Names, Sheets 8812 to 8816 inclusive, Project Ph-13(46) which has been submitted. All undisputed and recommended names have been shown on the map manuscript. *Geographic Names Sect. Division of Charts*

38. Recoverable Topographic Stations:

Copies of Forms 524 are being submitted for the following: *Photogrammetry Files*

ANNE, 1947	FAYE, 1947
ASHE, 1947	GABE, 1947
BELL, 1947	ZERO, 1947
CORA, 1947	DOLPHIN DIKE 67.28, 1947
DELA, 1947	RIVER GAGE DIKE 65.4, 1947
ERMA, 1947	RIVER GAGE FEASTERS ROCKS, 1947

39. Junctions:

Complete and satisfactory junctions have been made between map manuscripts T-8813 and T-8814 and between map manuscripts T-8812 and T-8813.

40. Bench Marks:

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

44. Comparison with Existing Topographic Surveys *Quadrangles*

See record sheet which accompanies each map manuscript.

45. Comparison with Nautical Charts:

There are no nautical charts of the area.

Approved and forwarded:

Robert A. Earle

Robert A. Earle
Chief of Party

Respectfully submitted:
8 August 1947

J. Edward Deal Jr.

J. Edward Deal, Jr.
Photogrammetric Engineer

Division of Photogrammetry
Review Report of
Shoreline Map Manuscript T-8813

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

28. Detailing.--

Corrections, made by the reviewer, were limited to the shoreline and the offshore limits of marsh. Apparently Field Memorandum No. 1 (1938) was not taken into consideration by the compiler.

Numerous detail points on the manuscript, along the shoreline, were checked and in all instances the cuts made by the reviewer held within the prescribed limits of accuracy. No new detail points were cut in by the reviewer as the original detail points were sufficient for compilation when using the vertical projector.

A number of field inspection notes that were omitted on the map manuscript have been added by the reviewer.

35. Hydrographic Control.--

A number of the temporary hydrographic stations were re-cut and all of them held within the prescribed limits of accuracy. None of the doubtful stations could be established. They have been deleted from the map manuscript and noted on the list of hydrographic signals, filed in Descriptive Report T-8812.

44. Comparison with Existing Topographic Quadrangles.--

A visual comparison was made with the following quadrangles:

USGS, McMinnville, Ore., 15' quadrangle, 1924,
scale 1:62,500.

1. A bend in the Willamette River at approximate latitude 45°10'00" and longitude 123°00'00" should not appear entirely on this quadrangle. It should also appear on the USGS Mt. Angel quadrangle.

2. Item 5 on the record sheet does not apply to this quadrangle.

USE, McMinnville, Ore., 15' quadrangle, 1947,
scale 1:50,000.

1. Item 5 on the record sheet applies to this quadrangle.

USGS, Mt. Angel, Ore., 15' quadrangle, 1921,
scale 1:62,500.

1. See item 1, comparison with USGS McMinnville
quadrangle.

USE, Mt. Angel, Ore., 15' quadrangle, 1947, scale
1:50,000.

For further information see Record Sheet

45. Comparison with Nautical Charts.-

There are no nautical charts in this area.

Reviewed by:

Reviewed under direction of:

B. Thomas Hynson
B. Thomas Hynson
5 November 1947

S. V. Griffith
S. V. Griffith
Chief, Review Section

Approved by:

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

Robert L. ...
Chief, Nautical Chart Br.
Division of Charts

K. T. Adams
Chief, Div. of Photogrammetry

C. K. Green
Chief, Div. of Coastal Surveys
KGC

GEOGRAPHIC NAMES

Survey No. T-8813

GRAND ISLAND, Ore.

1 Name on Survey

	A	B	C	D	E	F	G	H	K	
Oregon									USCB	1
Marion County										2
Yamhill County										3
Willamette River									USCB	4
State No. 221				Dayton Salem Highway						5
										6
French Prairie										7
Fairfield Cooperative Community and Grange Hall										8
Eldriedge Slough										9
Eldriedge Bar										10
Grand Island										11
Grand Island School										12
Tompkins Bar										13
Ditmar Bend										14
Old River slough				(purely descriptive)						15
Snaggy Bend Bar										16
Allison Bar										17
Fairfield										18
Duke Landing										19
Duke Bar										20
Upper Lambert Bar										21
Lambert Bend										22
Lambert Slough										23
Jackson Bend				Per names report, it is still used as a locality name, altho no longer on the river						24
Lower Lambert Bar										25
Feasters Rocks										26
Five Islands										27

GEOGRAPHIC NAMES

Survey No.

T-8813

2	Name on Survey	A	B	C	D	E	F	G	H	K	
	<u>Palmer Creek</u>										1
	<u>Alderman Farms</u>										2
	<u>Unionvale</u>										3
	<u>Unionvale School</u>										4
	<u>Evangelical Church</u>										4
	<u>Aquatic Gardens</u>										5
											6
											7
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