8680
8681

Diag'd. on diag. ch. No. 6154 & 6146

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photographic

Field No. T-8680 Office No. T-8681

Horiz. Acc'y Test

LOCALITY

State Oregon

General locality Multnomah County, Ore.

Locality Portland, Ore. (Alameda and Walnut Park Districts)

1946

CHIEF OF PARTY

R. A. Earle

LIBRARY & ARCHIVES

DATE Dec. 4, 1947

8-1870-1 (1)

8680
8681

Form T-1

DATA RECORD

T- 8680

Quadrangle (II): Portland (Walnut Park) Ore. (3 minutes) **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, & Dec. 6, 1945

Copy filed in ~~Descriptive Report No. T-~~ (VI) Division of Photogrammetry files

Completed survey received in office: 31 Oct. 1946

Reported to Nautical Chart Section: ✓

Reviewed: 11 March 1947 **Applied to chart No.** 6154 **Date:**

Redrafting Completed: 3 April, 1947

Registered: 11/47 **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): Portland Gas Tank, 1916 r 1935, 1945

Lat.: 45° 33' 31.536" (973.6m) ✓ **Long.:** 122° 40' 16.554" (359.0m) ✓ **Adjusted** **Unadjusted**

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.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
558 to 561 Incl.	6-30-45	13:30	1:17000 contact 1: 8000 ratio	11.9 ft. above M.L.W.*
817 to 820 "	7-1-45	12:50	"	11.7 ft. " M.L.W.
1259 to 1261 Incl.	7-2-45	12:45	1:5000	11.0 ft. " M.L.W.
44-685 & 44-686 U.S. Engineers Portland, Ore.	5-20-44	10:25	1:10,000	6.6 ft. " M.L.W.
103V-65 & 103V-66 U.S. Engineers	9-26-44	15:30	1:8000 fatio	1.7 ft " M.L.W.

Tide from (III): Daily reading 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 camera, focal length, 12 inches

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

Field Edit by: J. C. LaJoye, Prin. Photo. Aid **date:** Oct. 1946

Date of Mean High-Water Line Location (III): Nov. 21, 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. Photographs made on Nov. 21, 1945 were taken when the water level was at 4.9 ft. above M.L.W.

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

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

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

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

Radial Plot by: James L. Harris & J. E. Deal **date:** May 7, 1946

Detailed by: Clyde A. Randall **date:** Sept. 26, 1946

Reviewed in compilation office by: Ree H. Barron **date:** Sept. 30, 1946

Corrections and changes after field edit by: Ree H. Barron date: Oct. 18, 1946

Review after changes due to field edit by: J. E. Deal date: Oct. 21, 1946

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

STATISTICS (III)

Land Area (Sq. Statute Miles): 7.0

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

Shoreline (Less than 200 meters to opposite shore): 6.0

Number of Recoverable Topographic Stations established: 8
(1 interior landmark, 7 land claim corners)

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:		DATE:
Field Inspection By:	J.H. Winniford, Photo Aid	Jan. 1946
Shoreline Inspection By:	J.C. LaJoye, Prin. Photo. Aid	Feb. 1946
Recovery of Horizontal Control:	F.H. Elrod, Prin. Photo. Aid	Aug. 1945
Recovery of Vertical Control By:	J.H. Winniford, Photo. Aid	Sept. 1945
Investigation of Geographic Names and Civil Boundaries By:	L. E. Ervast, Photo Aid (C. of C.)	Feb. March 1946

RECORD SHEET

Div. of Photogrammetry
Graphic Compilation Sect.

GENERAL LOCALITY Portland, Oregon

LOCALITY Walnut Park District

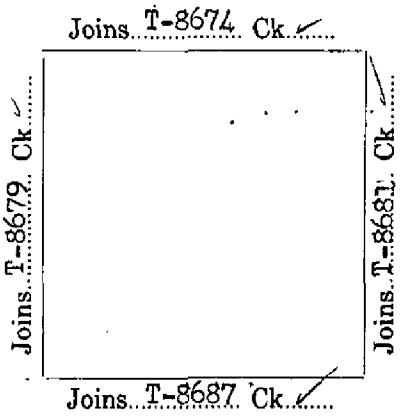
SHEET NO. T-8680

PROJECT NO. CS-322

SCALE 1:8000

PHOTOS ORDERED Aug. 1945 REC'D 10-1-45 3-12-46

PROJECTION ORDERED Oct. 1945 REC'D 1-4-46



CONTROL:
COMPUTED Harris VERIFIED Bunce
PLOTTED Bunce VERIFIED Harris

PHOTO PREPARATION:
CONTROL Bunce, Harris
AZIMUTHS Salazar, Davidson
PASS POINTS Bunce, Harris
TEMPLETS Bunce VERIFIED Harris

RADIAL PLOT:
PLOTTED BY Harris DATE 4-23-46 to 5-6-46
VERIFIED Deal DATE 5-7-46

COMPILATION:
DETAIL POINTS Bunce DATE June 10, 1946
DETAIL BY Randall DATE Sept. 26, 1945
VERIFIED BY Barron DATE Sept. 30, 1946

DATE OF PHOTOS: See reverse side

TIME OF PHOTOS See reverse side

STAGE OF TIDE See reverse side

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

Due to scale differences only a visual comparison could be made with the Portland, Oregon - Washington, U.S.G.S. 15 minute quadrangle, scale 1:62500. Except for new construction, since the quadrangle was made, such as Vanport Housing Project, Portland Meadows Race Track and new streets and roads the quadrangle and map manuscripts are in good agreement. (See reverse side)

REMARKS

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

FORWARDED TO Washington Office DATE October 22, 1946

R. A. Earle
Chief of Party

M-2305-12

(COMPARISONS continued)

Comparison was amde with nautical charts No. 6154, Scale: 1:40,000 and No. 6155, Scale: 1:20,000 by use of the vertical projector. There have been many changes made in the area north of the Columbia Slough, between Longitude 122° 30' and Longitude 122° 42' since the charts were made. Switzler Lake and two ponds to the north of this lake have been filled. Two mud sloughs have been partially filled and shortened due to construction of Denver Ave. (U.S. Hwy. 99W) and the Vanport Housing Project. "Portland Meadows" a new race track has been built in this area.

PHOTOGRAPH DATA.

PHOTO, NO.	DATE	TIME	SCALE	STAGE OF TIDE
558 to 561 Incl.	6-30-45	13:30	1:17000 contact 1:18000 ratio	11.9 ft. above M.L.W.
817 to 820 "	7-1-45	12:50	"	11.7 ft. " "
1259 to 1261 Incl.	7-2-45	12:45	1:5000	11.0 ft. " "
44-685 and 44-686 U.S. Engineers, Portland, Oregon	5-20-44	10:25	1:10000	6.6 ft. " "
103V-65 and 103V-66 U.S. Engineers, Portland, Ore.	9-26-44	15:30	1:8000 ratio	1.7 ft. " "

Form T-1

DATA RECORD

T-8681

Quadrangle (II): Portland (Alameda Dist), Ore. (3 minutes) **Project No. (II):** CS-322

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

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

Instructions dated (II III): July 12, 1945
Supplemental Instructions Aug. 29, Sept. 10, Oct. 25, Nov. 30, Dec. 6, 1945

Copy filed in ~~Descriptive Report No. T-~~ (VI) Division of Photogrammetry files.

Completed survey received in office: 31 Oct, 1946

Reported to Nautical Chart Section: ✓

Reviewed: 12/2/46 **Applied to chart No.** 6154 **Date:**

Redrafting Completed: 9 April, 1947

Registered: ~~25~~ 28 Nov July, 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): WHITAKER SCHOOL, (Brick Stack), 1946

Lat.: 45° 34' 14.522" (448.3m)✓ **Long.:** 122° 36' 31.208" (676.7m)✓ **Adjusted**
Unadjusted
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.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
694 to 696 incl.	7-1-45	10:35	1-17,000 contact 1- 8,000 ratio	11.7 ft. above M.L.W. *
765 to 768 "	7-1-45	12:20	1- 8,000	11.7 ft. " M.L.W.
903 to 912 "	7-1-45	14:00	1:5000	11.7 ft. " M.L.W.
44-660 to 44-664 incl. U.S. Engineers Portland Office.	5-20-44	10:25	1:10000	6.6 ft. Above M.L.W.

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: F. H. Elrod, Prin. Photo/ Aid **date:** October, 1946

Date of Mean High-Water Line Location (III): May 20, 1944

NOTE: The U.S. Engineers photographs taken on May 20, 1944 were used to delineate the high water line of the inland sloughs shown on this map manuscript. They were taken when the water level of the Willamette River was 6.6 ft. above Mean Low Water and are believed to be at about the datum of 5.0 ft. above Mean Low Water.

Projection and Grids ruled by (III) Washington Office **date:** Jan. 1946

" " " **checked by:** " " **date:** Jan. 1946

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

Control checked by: Carita C. Wiebe **date:** April 1946

Radial Plot by: James L. Harris & J. E. Deal **date:** May 7, 1946

Detailed by: Marie B. Elrod **date:** June 19, 1946

Reviewed in compilation office by: Ree H. Barron **date:** Aug. 6, 1946

Corrections and changes after field edit by: M.B. Elrod Date: Oct. 17, 1946

Review after changes due to field edit by: J. E. Deal Date: Oct. 18, 1946

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

STATISTICS (III)

Land Area (Sq. Statute Miles): 8.0

Shoreline (More than 200 meters to opposite shore): 0.5 mile

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

Number of Recoverable Topographic Stations established: 12 (3 interior landmarks, 5 land claim corners, 4 city boundary monuments)

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:

	DATE:
Field Inspection By: J. H. Winniford, Photo Aid	Feb. 1946
Recovery of Horizontal Control By: F. H. Elrod, Prin. Photo. Aid	Aug. 1945
Recovery of Vertical control By: J.H. Winniford, Photo Aid	Sept. 1945
Shoreline Inspection By: J.C. LaJoye, Prin. Photo. Aid	Feb. 1946
Investigation of Geographic Names and Civil Boundaries By: L. E. Ervast, Photo Aid, (C. of C.)	Feb. 1946

RECORD SHEET

Div. of Photogrammetry
Graphic Compilation Sect.

GENERAL LOCALITY Portland, Oregon

LOCALITY Alameda District

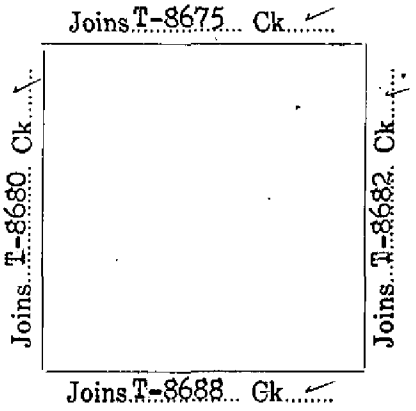
SHEET NO. T-8681

PROJECT NO. CS-322

SCALE 1:8000

PHOTOS ORDERED Aug. 1945 REC'D 10-1-45

PROJECTION ORDERED Nov 1945 REC'D 1-23-46



CONTROL:
COMPUTED Harris VERIFIED Bunce

PLOTTED Bunce VERIFIED Harris

PHOTO PREPARATION:
CONTROL Bunce, Harris

AZIMUTHS Salazar, Davidson

PASS POINTS Bunce, Harris
Bunce

TEMPLETS Conn VERIFIED Harris

RADIAL PLOT: 4-23-46 to
PLOTTED BY Harris DATE 5-6-46

VERIFIED Deal DATE 5-7-46

COMPILATION:
DETAIL POINTS Harris DATE 5-31-46

DETAIL BY M.B. Elrod DATE 6-19-46

VERIFIED BY Barron DATE 8-6-46

DATE OF PHOTOS See reverse side

TIME OF PHOTOS ~~See reverse side~~

STAGE OF TIDE See reverse side

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

Due to scale difference only a visual comparison could be made with the Portland Oreg. - Wash. U.S.G.S. 15 minute quadrangle, Scale 1:62500. Since the quadrangle was made, drainage projects and the construction of the Army Air Base have caused many changes in the area lying between N.E. Columbia Blvd. and the Columbia River. Elsewhere, except for new ~~streets and roads, the map manuscript~~ (see reverse side)

REMARKS

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

FORWARDED TO Washington Office DATE October 22, 1946

R. A. Earle
Chief of Party

M-2305-12

and quadrangle are in good agreement.

Comparison was made with nautical charts No. 6154, Scale: 1:40,000, No. 6155, Scale: 1:20,000 and No. 6156, Scale: 1:40,000 by use of the vertical projector. The following differences were noted:

1- Switzler Lake and two ponds north of Switzler Lake have been filled.
2- The Columbia Slough has been divided by a dike and construction of a pump house at Latitude 45° 34' 58" and Longitude 122° 38' 56".
3- At Latitude 45° 34' 05" and Longitude 122° 37' 58", a new road has divided a branch of the Columbia Slough. Approximately 200 meters north of this point a bridge has been built across the Columbia Slough.
4- New roads, a golf course, the Army Air Base and the Portland Airport have been constructed since the charts were made.

PHOTOGRAPH DATA

PHOTO. NO.	DATE	TIME	SCALE	STAGE OF TIDE
694 to 696 Incl.	7-1-45	10:35	1:17000 contact 1:8000 ratio	11.7 ft. above M.L.W.
765 to 768 "	7-1-45	12:20	"	11.7 ft. " "
903 to 912 "	7-1-45	14:00	"	11.7 ft. " "
44-660 to 44-664 Incl. U.S. Engineers, Portland, Oregon office	5-20-44	10:25	1:10000	6.6 ft. " "

FIELD INSPECTION REPORT

QUADRANGLES T-8680 and T-8681

PROJECT CS-322

1 to 25: All the information that is applicable to these side headings is given in the "Field Inspection Report, Project CS-322, Area of the Second Radial Plot", which was enclosed with the Descriptive Report for Quadrangles T-8674 and T-8675. This Descriptive Report has been submitted. Side heading numbered 12, discussed in the above mentioned field inspection report, is not applicable to Quadrangles T-8680 and T-8681.

Approved by:

R. A. Earle
Chief of Party

Respectfully submitted:

Charles Hanavich
Topo. Engineer

P-USE, 1909
W-USE, 1909
45$_2$, USE, 1906
45, USE, 1906
Gravel Bluff 1882-1934

] added to map manuscript T-8680

T-8680 New △ = Kenton School Stack, 1946
T-8681 Whitaker Sch., Brick ~~Chimney~~ stack, 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 probable 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. Pricking 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.

January 1951

COMPILATION REPORT

MAP MANUSCRIPTS T-8680 and T-8681

PROJECT CS-322

26. Control:

At the time this project was started there were fifteen existing horizontal control stations in the area of these two map manuscripts. Eight were recovered and six of these were identified for use in the radial plot. 5 on T-8680

In order to more satisfactorily control the orientation of the photographs, two new triangulation stations were established. One of these was located in the west central part of T-8681 and the other was located in the central part of T-8680. They were prominent brick stacks on public schools and could be easily identified on the photographs.

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 Second Radial Plot". This report is included with the descriptive report for map manuscripts No's. T-8674 and T-8675, which has been submitted.
→ Filed in Div. Photog. General Files "Sp'l. Rep'ts"

A complete tabulation of supplemental horizontal control stations which were established in 1945 and 1946 is attached to a special report, "Third-Order Triangulation and Traverse, Project CS-322, Area of the Second Radial Plot", which has been submitted. Triangulation Station NEW 2 (U.S.E.), 1941 was plotted from Oregon North Zone, coordinates furnished by the U.S. Engineers office at Portland, Ore.. They are:

X = 1,460,591.73 T-8681
Y = 711,738.88

→ Filed in Library 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, Second Radial Plot, Project CS-322". This radial plot report was included with the descriptive report for map manuscripts No's. T-8674 and T-8675.
→ Filed in Div. Photogram. General Files under "Special Reports."

28. Detailing:

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

In the areas of the Columbia Slough and Peninsula Drainage Canal there were no reflight photographs taken in November 1945. This office was fortunate in obtaining a flight of 1:10000 scale contact prints from the U.S. Army Engineer Office at Portland, Ore., taken on May 20, 1944, when the water level in the river was 6.6 feet above Mean Low Water. These were used to delineate the high-water line of 5.0 feet above Mean Low-Water in the area of these sloughs. In the extreme southwest area of T-8680 is a small portion of the Willamette River. U.S. Engineer 1:8000 ratio prints, taken on September 26, 1944 when the water level was 1.7 feet above Mean Low-Water, were used to delineate the high-water line in this area. In all inland areas the original photography was adequate. The 1:5000 scale single lens contact prints, taken along the shorelines of the Willamette and Columbia Rivers, were a great help in interpreting detail, in these areas.

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 maps or plans, which will be forwarded with the map manuscripts, were used to supplement the photographs:

8680 - East Vanport, Oregon Scale: 1" = 300' [filed with Descr Rept T-8674
Portland Airport (The Port of Portland), Scale: 1"= 300'
Portland Air Base (Layout), Scale:1" = 400'
Portland Army Air Base Building List. (Cahier)
8680 - Portland Meadows (Race Track), paper tracing, Scale: 1" = 200'

The following maps and plans, which were also used, will be forwarded when map manuscripts adjacent to T-8680 and T-8681 are corrected after field edit:

- Map of City of Portland Scale: 1" = 1500' approx.
- Vanport City Layout Plan, Scale: Unknown
Sheets 22, 23, 25, and 26 of a set of 74 sheets published by the Multnomah County Assessor's Office Scale: 1" = 600'

34. One landmark: (To be retained on charts 6154 + 6155) 175± ft high
Portland, Union Pacific RR Co, elevated black tank 1935 (d)
G.P. page 368.
fm 567 submitted

30. Mean High-Water Line:

The mean high-waterline was detailed from information submitted by the field parties and from stereoscopic examination of the photographs. Most of the shoreline data is shown on U.S. Engineer photogrpahs taken on May 20, 1944 and Sept. 26, 1944. See paragraph 28, "Detailing", for complete photographic data. The mean high-water line is shown by a continous heavy-weight black acid ink line at a plane five feet above the U.S. Engineers low-water datum which is 1.29 feet 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 indicated a definite low-water line along the east shore of the Willamette River. This low-water line has been shown by a light-weight dash and dot black acid ink line. Indefinite areas which bare at low-water have been shown enclosed in a dotted black acid ink line and appropriately noted. The field inspection unit did not indicate any shoal areas within the limits of these two map manuscripts.

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

A mud and brush island in the Peninsula Drainage Canal is the only offshore detail within the limits of these two map manuscripts.

33. Wharves and Shoreline Structures:

Piers, wharves, dolphins, etc., have been shown.

34. Landmarks and Aids to Navigation:

There are no landmarks or fixed aids to navigation within the limits of these two map manuscripts.

35. Hydrographic Control:

There were no hydrographic stations needed within the area of these two map manuscripts.

36. Landing Fields and Aeronautical Aids:

Most of the area of "Portland Airport" falls in the northeast part of Map Manuscript No. T-8681.

Forms 567 are attached recommending the retention as an aeronautical aid of the beacon at the Portland Airport. It is also triangulation station PORTLAND, COLUMBIA AIRPORT BEACON, 1941.

37. Geographic Names:

Only undisputed geographic names are shown on the map manuscripts.

Special Report: Investigation of Boundary Monuments & Land Lines ...
Area of the Second Radial Plat
Filed in Div. Photogram. General Files, under "Sp'l Rep'ts."

Geographic Names are the subject of the special report, "Investigation of Geographic Names, Project CS-322, Area of the Second Radial Plot", which is being submitted. Filed in Geog. Names Sect, Coastal Surveys.

38. Recoverable Topographic Stations:

Copies of Forms 524 are being submitted for the following:

In the area of Map Manuscript No. T-8680

TANK, (Elevated) Portland Traction Co., 1946
CUPOIA, (Holy Redeemer School), 1946
GRAY TANK, (Elevated) Nicolai Door Mfg. Co., 1946
Portland Boundary Monument, 1946 (north boundary)
Portland Boundary Monument, 1946 (" ")
Portland Boundary Monument, 1946 (" ")
Portland Boundary Marker, 1946 (" ")
T 1N R 1E, Section Corner 14, 15, 22, 23, 1946
T 1N R 1E, Section Corner 15, 16, 21, 22, 1946
Northeast Corner J. Rankin, Donation Land Claim, 1946
Southwest Corner Wm. McClung, Donation Land Claim, 1946
Southwest Corner Lewis Love, Donation Land Claim, 1946

In the area of Map Manuscript No. T-8681

VERNON STANDPIPE, 1946
T 1N R 1E, Center of Section 12, 1946
T 1N R 2E, Center of Section 19, 1946
T 1N R 1E, Section Corner 13, 14, 23, 24, 1946
Southwest Corner Wm. Hall, Donation Land Claim, 1946
Southeast Corner Wm. McClung, Donation Land Claim, 1946
Northwest Corner A. Whittaker, Donation Land Claim, 1946
Southeast Corner of Government Lot No. 6, 1946

39. Junctions:

Complete and satisfactory junctions have been made between Map Manuscripts Nos. T-8680 and T-8681, and with adjoining map manuscripts.

40. Bench Marks:

6 on T-8680 4 plotted " "

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.

9 on T-8681

41. Donation Land Claims and Section Lines:

Filed with map manuscript.

Donation Land Claims and section lines were located on ozalid prints of the map manuscripts after the initial compilation had been completed. These lines, with pertinent explanatory notes, were placed on the prints in red and purple ink respectively, by the field party, and were then traced on the map manuscripts by the compilers. The ozalid prints containing these lines are being forwarded.

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:

October 17, 1946
J. Edward Deal, Jr.
Photogrammetric Engr.

FIELD EDIT REPORT
T-8680 and T-8681
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 drafting of detail that seemed to be questionable was called to the attention of the Compilation Office by notes. Several large buildings and roads, which were recently constructed, were located by planetable methods on field photographs. The additional names and numbers of roads which were indicated on the prints were obtained and checked against the official road signs.

The Federal Housing Authority development of "East Vanport" is being torn down. Although some buildings are still intact it was definitely ascertained by the field edit party from the Federal Housing Authority that all buildings would be removed in the housing development of "East Vanport". The roads in the area have not been disturbed. Their final disposition could not be definitely determined from the officials at the time of the field edit; however, the orders and plans are subject to change.

The latest information on the disposition of the Portland Army Air Base is that it definitely will be utilized by the U. S. Army Air Corps Reserve and possibly by the Oregon National Guard. The Oregon National Guard is endeavoring to obtain the buildings that will not be used by the Air Corps Reserve.

It was reported by the field editor at the time of the field edit of T-8682 that some of the buildings would be torn down. In the latest conference with the Commanding Officer of the Air Base, it is probable that all buildings will remain intact.

In T-8680 a large race track "Portland Meadows" has been constructed recently; the original plan of this race track was obtained and by the use of the projector, the Compilation Office delineated the new detail by holding to most of the planimetry common to the plan and the map manuscript. This new and additional detail was verified in the field by the field edit party. A paper tracing of the original plan will be submitted.

In accordance with the field edit instructions, the accuracy and the completeness of the map manuscripts in regard to geographic names, boundaries, public land lines, and detail were checked by Mr. H. G. Richardson, City Surveyor, Portland. 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:

Results of the horizontal accuracy test on T-8680 and T-8681 are attached to the back of this report.

These maps are believed to comply with the standard map accuracy requirements.

49. Bench Mark Elevations:

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

50. Donation Land Claims and Section Lines:

Donation Land Claims and section lines were located on additional ozalid prints of the map manuscripts after the initial compilation had been completed by a special field party. These lines were indicated in red and purple ink, respectively and supplemented, if necessary, by explanatory notes. These additional ozalid prints will be submitted with the field edit sheets.

51. Geographic Names:

814 ✓

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

KENTON, WAINUT PARK, OVERLOOK and PORTLAND ELECTRIC POWER COMPANY.

Field Edit reviewed by:

Charles Hanavich
Charles Hanavich,
Topo. Engineer

Approved by:

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

Field Edit by:

F. H. Elrod (in T-8681)
Prin. Photo. Aid

F. H. Elrod

J. C. LaJoye (in T-8680)
Prin. Photo. Aid

John C. LaJoye

HORIZONTAL ACCURACY TEST
Map Manuscript T-8681 & T-8680
Project CS-322

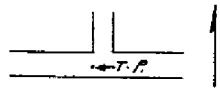
Plane Coordinate positions, which were established from the various traverses run by the City of Portland, on the Lambert Projection, Oregon State, North Zone, were obtained from the City Surveyor of Portland, Mr. H. G. Richardson, who stated that these coordinate positions were of fourth-order accuracy or better and that no position is in error more than three feet.

Since the majority of these coordinate positions were for section, quarter section or city boundary corners, which were located at the centerline intersections of streets or roads, it was decided to utilize most of them as test points to check the accuracy of the map manuscripts.

The location of each of these points was indicated by the City Surveyor on several County Assessors Maps, which will be forwarded to Washington. Each position used as a test point has been assigned a numerical number (test point number) and is indicated in red on the County Assessor's Map or sheet attached thereto.

In the tabulation of the test points, the coordinate positions are referred to as T.P.No. and the scaled positions from the map manuscript (Scale 1:8000) are referred to as M.M.No.

TABULATION OF TEST POINTS (T-8681)

Description of Point	Test Point Number	X-Coord. (Ft.)	Y-Coord.	Displacement in mm
Inter. of T-rd., 90 degrees	T.P.No. 23	1,460,066	698,364	
	M.M.No. 23	1,460,062	698,362	.13
Inter. of X-rds., (S.C.13-18-24-19), 90 degrees	T.P.No. 24	1,457,284	698,457	
	M.M.No. 24	1,457,279	698,455	.16
Inter. of X-rds., 90 degrees	T.P.No. 25	1,457,215	695,815	
	M.M.No. 25	1,457,209	695,823	.30
Inter. of X-rds., 90 degrees	T.P.No. 26	1,454,657	698,493	
	M.M.No. 26	1,454,655	698,489	.13
Inter. of T-rd., (S.C.14-13-23-24), 90 degrees	T.P.No. 27	1,452,034	698,548	
	M.M.No. 27	1,452,027	698,539	.38
	T.P.No. 28	1,449,408	698,638	
	M.M.No. 28	1,449,410	698,634	.13

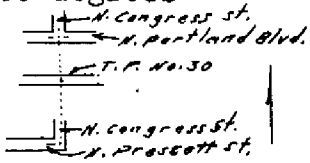
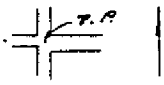
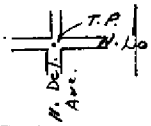
All the test points are well defined and were found to test within the map accuracy requirements.

Approved:
R. A. Earle,
Chief of Party

Respectfully Submitted:
Charles Hanavich
Charles Hanavich,
Topo. Engr.

con.

TABULATION OF TEST POINTS (T-8680)

Description of Point	Test Point Number	X-Coord. (Ft.)	Y-Coord. (Ft.)	Displacement in mm
Inter. of X-rds., (S.C.14-15-22-23) 90 degrees	T.P.No. 29	1,446,778	698,714	
	M.M.No. 29	1,446,777	698,708	.18
	T.P.No. 30	1,444,115	698,767	
	M.M.No. 30	1,444,114	698,765	.07
Inter. of X-rds., (S.C.15-16-21-22) 90 degrees	T.P.No. 31	1,441,453	698,824	
	M.M.No. 31	1,441,455	698,818	.19
	T.P.No. 32	1,441,365	696,190	
	M.M.No. 32	1,441,360	696,188	.16
Inter. of X-rds., 90 degrees	T.P.No. 33	1,441,546	701,462	
	M.M.No. 33	1,441,557	701,460	.35
Inter. of X-rds., (S.C.9-10-15-16)	T.P.No. 34	1,441,631	704,098	
	M.M.No. 34	1,441,627	704,093	.19
	T.P.No. 35	1,438,985	704,168	
	M.M.No. 35	1,439,000	704,159	.53
Inter. of X-rds., 90 degrees	T.P.No. 36	1,438,806	698,929	
	M.M.No. 36	1,438,819	698,921	.46

All the test points are well defined except for test point number 30 which is a less well defined point. The points were found to test within the map accuracy requirements.

GEOGRAPHIC NAMES

Survey No. T-8680 and T-8681

1 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	
Both sheets:										1
Oregon									USGB	2
Portland									"	3
Union Pacific										4
By Pass U.S. 30										5
Columbia Slough										6
										7
										8
T-8681:										9
Columbia River									USGB	10
Portland Airport										11
Portland Army Air Base										12
Peninsula Drainage Canal (not Columbia Slough)										13
Alameda (N.B. according to name sheet Irvington is well to south of this sheet)										14
										15
U.S. Army Ordnance Area										16
Riverside Golf Course										17
Broadmoor Golf Course										18
Rose City Cemetery										19
Alberta Park										20
Whitaker Elementary School										21
Rigler " "										22
Vernon " " (one school name illegible)										23
Concordia Academy										24
Kennedy Elementary School										25
Wilshire Park										26
Columbia River										27
Columbia Edgewater Golf Course										

M 234

GEOGRAPHIC NAMES

Survey No. --

T-8680-81

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	
T-8680:										1
Bridgeton										2
Vanport City	(note remark re demolition of buildings in East Vanport)									3
Kenton										4
Mud Slough										5
U.S. 99-E and U.S. 99-W										6
Walnut Park	(residential area)									7
Overlook										8
Mocks Bottom										9
Swan Island										10
Swan Island Basin										11
Albina R.R. Yards										12
Vanport City School No. 6										13
Kenton Grade School										14
Peninsula Grade School										15
Portland Meadows Race Track										16
Gammonds Park										17
Woodlawn Elementary School										18
Peninsula Park										19
Highland Elementary School										20
Jefferson High School										21
J.V. Beach Grade School										22
Portland Traction Company										23
East Vanport										24
Piedmont										25
										26
										27

Names outlined in red approved by L Heck on 1/23/46

M 234

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T-8680

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

Dec., 1946

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 on page 368 of "Geographic Positions".

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
	Portland, Union Pacific R.R. Co.												
	elevated black tank, 1935 (d)		45 33	604.4	122 41	1008.7	NA.1927	A					615.4 615.5
	(175± ft.)												

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-8681
Project CS-322

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

(AERONAUTICAL)

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

Portland, Oregon Oct. 15, 1946

I recommend that the following objects which have ~~(have not)~~ been inspected ~~(not been inspected)~~ to determine their value as aeronautical landmarks, be retained on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by J.E. Weal

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							
BEACON	Triangulation Station, "PORTLAND COLUMBIA AIRPORT BEACON, 1941"	BEACON	45 35	(123.5) 1728.9	122 36	(1036.4) 264.0	N.A. 1927	Triangulation	1941				W-1
	NOTE: The above aeronautical aid is recommended for retention on Aeronautical Chart No. W-1.												
			45 35										

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.

Division of Photogrammetry

Review Report of

Planimetric Survey, Manuscript No. T-8681

Paragraphs not used in this review have been adequately covered in other parts of this report.

28. Detailing.-

The map details were complete with the exception of a few minor additions or deletions which had been overlooked in the application of the field edit to the map manuscript. A correction and addition was made to the delineation of brush land in the U. S. Army Ordinance Area. The alignment of N.E. Lombard Pl. was changed where it joins N.E. Columbia Blvd. in order to agree with the section line.

38. Donation Land Claims.-

The south boundary of the Anthony Whitttaker D.L.C. was adjusted slightly to tie with the boundary on the adjacent sheet. West, north and east boundaries of William H. Payne DLC was adjusted to agree with General Land Office Plat.

39. Section Lines.-

The section line now tying into N.E. Lombard Pl. had been incorrectly located so as to run about 2-1/2 millimeters south of the centerline of N.E. Lombard Pl. This was discovered in checking the junction with T-8690 and was corrected during review.

44. Comparison with Existing Topographic Surveys.-

T-8681 supersedes those sections of the following older Coast and Geodetic Survey sheets over the common area:

T-2007	1:10,000	1890
T-2521	1:10,000	1900

T-8681 also has been compared with the following published quadrangles and supersedes the planimetry on those quadrangles over the common area:

Portland, Ore.-Wash., U.S.G.S., 1:62,500, 1896
Portland, Ore.-Wash., U.S.E., 1:62,500, 1939-40

Reviewed by:

K. N. Malin
Photogrammetrist 12/2/46

Reviewed under the direction of:

D. V. Griffith per nsm
Chief, Review Section

APPROVED BY:

B.G. Jones 11/47
Technical Assistant to the
Chief, Div. of Photogrammetry

Chief, Nautical Chart Branch
Division of Charts

K.T. Adams
Chief, Div. of Photogrammetry

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

Division of Photogrammetry
Review Report of
Planimetric Survey Manuscript T-8680

Paragraphs not used in this report have been adequately covered in other parts of this descriptive report.

26. Control.-

One newly established triangulation station, "Kenton School Stack, 1946" and five older stations have been added to this map manuscript during review.

41. Donation Land Claims and Section Lines.-

The Donation Land Claims and Section Lines were compared with these data: General Land Office plats, assessment maps, and the aerial photographs. The following corrections were made to the land lines:

1. South line of Alexander Brown D.L.C. added to this map manuscript.

2. J. Rankin D.L.C. adjusted to agree more favorably with the data.

3. J. R. Switzer, Lewis Love, and Wm. McClung tracts adjusted to agree with the data.

4. The section lines between the corners, 3-4-9-10 and 1-2-11-12, have been adjusted to junction with T-8679 and T-8681.

5. The section line between the corners, 9-10-15-16 and 3-4-9-10, has been adjusted to junction with T-8674.

44. Comparison with Existing Topographic Surveys.-

This map manuscript has been compared with the following topographic surveys which it supersedes in common detail of common area:

U.S.G.S. Quadrangle Portland, Oreg. 1:62,500
U.S.C.& G.S. T-2007 1890

This map manuscript has not been applied to the nautical charts as of the date of this report.

Reviewed by:

Lena T. Stevens 3/11/47
Lena T. Stevens 3/11/47

Reviewed under direction of:

S. V. Griffin 3/11/47
Chief, Review Section

APPROVED BY:

B.G. Jones 11/47
Technical Assistant to the
Chief, Div. of Photogrammetry

Chief, Nautical Chart Branch
Division of Charts

K.T. Adams
Chief, Div. of Photogrammetry

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

7DKTR
71 MAR 20 1947
78

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
POST-OFFICE ADDRESS: c/o Swan Island Postal Station
Portland 18, Oregon
TELEGRAPH ADDRESS:
EXPRESS ADDRESS:

18 March 1947

To: The Director
U. S. Coast & Geodetic Survey
Washington 25, D. C.

From: Lt. Comdr. R. A. Earle

Subject: Donation Land Claims on T-8680

Reference: Your Letter, 78-RCR, dated 11 March 1947

The following information requested in the above reference is respectfully submitted:

1. David Allery - south of Lewis Love tract in sections 14 and 15.

This is not an original Donation Land Claim but is a legal subdivision known as Land Warrant No. 170. It is referred to as Government Lots No's. 1, 2 & 3 of Section 15 and Government Lot No. 5 of Section 14.

2. J. S. Gerow - north of Jas. Thompson tract in the NE¼ Section 22.

There is a J. T. Gerow listed for the NW quarter of Section 22 and a J. T. Gerow listed for the northeast quarter of Section 22, however, these are not Donation Land Claims. The northwest quarter of Section 22 was acquired by a land warrant and the northeast quarter by certificate.

3. McKeown (name not complete) - west of the Jas. Thompson tract - in S½ Section 23.

There is a Wm. McKewon east of the Jas. Thompson tract in the southwest quarter of Section 23, however, the parcel of land was not a surveyed Donation Land Claim but was acquired by certificate.

The above information was obtained from the original land office plats and other data, on file in the office of Mr. Claude Powers, Surveyor of Multnomah County. Mr. Powers knows of no deed in Multnomah County which refers to the above parcels of land and states that they are known as legal government lots and not donation land claims.

R. A. Earle
Chief of Party

RAE/gw

78-RCR

831

11 March 1947

TO: Lt. Comdr. Robert A. Earle
U. S. Coast and Geodetic Survey
c/o Swan Island Postal Station
Portland 18, Oregon

Subject: Donation Land Claims on T-8680

Enclosed is an ozalid print of T-8680 upon which you will please note the following Donation Land Claims which are indicated on plats of the General Land Office but which were not shown on this map manuscript:

1. David Allery - south of Lewis Love tract - in sections 14 and 15.

2. J. S. Gerow - north of Jas. Thompson tract - in the NE¼ section 22.

3. McKeown (name not complete) - west of the Jas. Thompson tract - in S½ section 23.

If for any reason any or all of these tracts should not be shown, you will please inform me accordingly.

(illegible) J. M. HAWLEY

Acting Director.

Reply rec'd 3/17

NAUTICAL CHARTS BRANCH

T-8680

SURVEY NO. T-8681

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/17/48	6156	Pisegani	T-8681 Exam. for crit. changes only - no ~~Before~~ After Verification and Review correction.
10 Jan 50	6155	Nichols	~~Before~~ After Verification and Review Complete application - T-8680, T-8681
1 Aug 50	6156	Nichols	~~Before~~ After Verification and Review Both completely applied 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
			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.