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Diag. Cht. No. 6154

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-141 Office No. T-11463

LOCALITY

State Oregon

General locality Portland

Locality Swan Island

CHIEF OF PARTY
Fred Natella, Chief of Party
L.W.Swanson, Div. of Photogrammetry
Washington, D.C.

LIBRARY & ARCHIVES

DATE January 9, 1958

B-1870-1 (I

10 544215-894

T - 11463

Project No. (II): Ph-141

Quadrangle Name (IV):

Field Office (II): Portland, Oregon

Chief of Party: Fred Natella

Division of Photogrammetry

Photogrammetric Office (III) Washington, D.C.

Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III): 21 July 1954

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:5000

Stereoscopic Plotting Instrument Scale (III): 1:2000

Scale Factor (III):

Date received in Washington Office (IV): 5

Date reported to Nautical Chart Branch (IV): 4-/2- /955

Applied to Chart No.

Date registered (IV);

4-23-57

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

NA 1927

Vertical Datum (III): MHW (4H. River Level)

Meanrsearievel except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): 39.2 (USE) 1934

Lat.: 45° 34' 19.632"

Long.: 122° 43' 48.911"

Adjusted ti nadjusteti

Plane Coordinates (IV):

State:

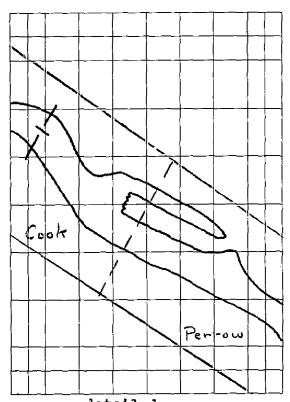
Zone:

X =

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

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

W. V



detailed
Areas Konstalk by various personnel
(Show name within area)
(II) (III)

DATA RECORD

Field Inspection by (II): James L. Harris, Southwest shore
Don N. Williams, Northeast shore
J.E. Beal & J. L. Harris (control)

8/23-8/31/54

8/23-8/31/54

R. B. Melby and G.R. Combs (Shoreline) 12/3-12/8/54

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):

Date of Field Inspection Indicated on Field Photographs

Projection and Grids ruled by (IV): A. Riley Date: 7/8/54

Projection and Grids checked by (IV): A. Riley Date: 7/8/54

Control plotted by (III): C. E. Gook Date: 1/5/55

Control checked by (III): H. Bromberg Date: 1/5/55

Radial Plot or Stereoscopic Date:

Control extension by (III): None

Planimetry J. D. Perrow Date: 1/19/55
Stereoscopic Instrument compilation (III):

Contours None Date:

Manuscript delineated by (III): J. McDonald Date: 1/26/55

Photogrammetric Office Review by (III): C. E. Cook Date: 1/28/55

Elevations on Manuscript None Date:

checked by (II) (III):

Camera (kind or source) (III): W. Camera

		PHOTOGRAPHS (III)		
Number	Date	Time	Scale	Stage of Tide
W 2140-2148 W 2155-2162 W 2921-2928	5/28/54 9/26/54	8:53 to 8:54 8:59 to 9:01 15:37 to 15:39	1:10,000	Flood 0.7 ft. From Tide, tables

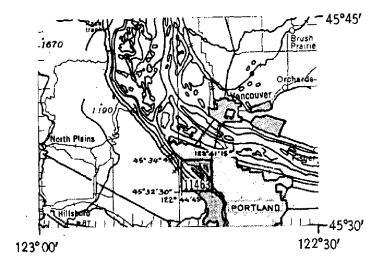
Field inspection photographs ratioed to 1:5,000.

Tide (III) Reference Station: Astoria Subordinate Station: Portland (Mn. Rg. Normal River Level) Subordinate Station:	Ratio of Mean Range Range Range Range Range Range Range Range
Washington Office Review by (IV):	Date:
Final Drafting by (IV): R. Hoj Kins	Date: 11-20-55
Drafting verified for reproduction by (IV):	Date:
Proof Edit by (IV):	Date:
Land Area (Sq. Statute Miles) (III): Shoreline (More than 200 meters to opposite shore) (III): Shoreline (Less than 200 meters to opposite shore) (III): Control Leveling - Miles (II): Number of Triangulation Stations searched for (II): 54 Number of BMs searched for (II): 9 Recovered: 9 Number of Recoverable Photo Stations established (III): Number of Temporary Photo Hydro Stations established (III):	Identified: 18 Identified: 9
Remarks:	

SHORELINE MAPPING PROJECT PH- 141

Swan Island, Oregon

OFFICIAL M	TLEAGE FOR COS	
	LIN.MI.	AREA
SHEET NO.	SHORELINE	SQ.MI.
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TOT	'ALS 11	5



Summary to Accompany T-11463

This map constitutes the whole of project Ph-141 (54), which was set up to provide a 1:5,000 scale base map for a new nautical chart.

Field inspection was performed by personnel from the Portland Photogrammetric Office and was done during two periods. The first period, August 10-31, 1954 was used for recovery of control and general shore inspection for which flood water photographs were available. In the second period, December 3-8, 1954, shoreline was delineated upon photographs taken in September 1954 when the river was at approximately mean high river level.

			PROJECT NO.			SCALE OF MAP 1321 UND	מממי	SCALE FACTOR Z.O.	J6 & V.
STATION	SOURCE OF (NFORMATION (INDEX)	DATUM	LATITUDE O LONGITUDE (LATITUDE OR y-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DISTANCE FROM GRID IN FEET, R PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
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Portland, Kerr-	-	<u> </u>	1,5 33	15.85	489.3	1363.1			
flagstaff 1938	(d) r'45		122 41	15.06	4.77€	324.0			
Portland UPRR		<u> </u>	45 32	57.433	1773.1	79.3			
1938 (d) r1/15	200		122 41	32.377	702.3	599.2			
Scott, 1882	0.17		1,5 33	22.756	702.5	1149.9			
- 1	\ 7 }		122 44	05.915	128.3	1173.1			
39 ₂ (USE 1912)			1,5 34	19.632	606.1	124.6.3			
	791		122 h3	48.911	1060.6	240.4			
38 ₂ (USE 1899)	<u> </u>		L5 3L	29.102	898.5	953.9			
1934 r1938 dm	162		122 14	52.659	1141.8	159.1			
452 (USE) 1906	108			11.314	349.3	1503.1			
nd	1.30		122 11	10.958	888.4	413.0			
NPRR bridge, Lt	108	·	15 34	37.19	1148.2	704.2			
draw, 1913 nd	2		122 14	46.12	1000.0	300.9			
Standard Oil Co	•	. <u>. —</u> _1	45 33	51.09	1577.3	275.1			
(nd)			122 44	34.80	754.7	546.5			
UPRR Block Signal	เลา		45 34	10.693	330.1	1522.3			
		 }	122 42	32.267	699.7	4.109			
UPRR Block Signal	[8]		15 34	03.661	113.1	1739.3			
12 г, 1954				21.080	457.1	844.0			
Swan Island,		ł	1,5 33	55.682	1719.1	133.3			
Lower951ght		 -	122 43	29.865	9.746	653.5		- 	
1 FT = 3048006 NETER COMPUTED BY. COOK	↑ Cook			5.11	CHEC	CHECKED BY. I. J. Raed	J. Reed		м.2388-12 ВАТЕ 30 Песешћег 195/

STATION SOURCE OF INFORMATION (INDEX) SS OVETIOOR 1938 SS OVETIOOR 192 122 40	RDINATE DISTANCE FROM GRID IN FEET. ROINATE OR PROJECTION LINE IN METERS FORWARD (BACK) 1650.6 201.8 1203.9 97.6	DATUM FROM GRID ON IN I FORWARD FROM GRID ON IN I FORWARD	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK)	FACTOR DISTANCE IN METERS FORWARD (BACK)
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1927 122 40	1203.9			
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STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE O LONGITUDE (LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	_	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK)	FACTOR BISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
Columbia (Ore		MM	मृह्य <u>२</u> ।	16.343	50h.6	1347.8			
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100	367]	31.		891.7			
white concrete stack 1913,1916	16 r'35(ND)	(QN)]	39.		451.8			
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Terminals, Tank,	.k, 367			08.		1123.5			
Portland, UPRRCo	Co. 368		45 33	19.	न-109	1248.0			
1935(d)r'38,r'45	, t.		122 41	146.	1008.7	292.7			
Kittridge 1938	8		115 33	16.	521.1	1331.3			
(dm) r'45	614		122 lili			1,426			
Portland, Black					1	291.8			
stack nr.SP&SRR Bridge 1938 (d)			122 14		708.9	591.9			
ortland, Concrete	te		45 34	1 29.502	910.8	941.6			
Stack 1913' $r'45$	430	•	122 43	54.	1187.2	113.7			
Portland, Bethlehem	hem		115 34	ļ	85.7	1766.7			
1938 (d) r'41 r	4.7c				10	266.4	<i>z</i> ,		
and,	011		1,5 33	55.	1703.8	148.6			
co.taller of 2 stacks 1938(d)r	147 145	10	122 LL	1 34.981	758.6	542.5			
Portland, Standar	L 1, 2,2		15 31		104.2	1748.2			
011 CO. GCCK, 118	ю. 1 Д	· [122 111	1 09.028	195.8	1105.3		·	
Portland, Union	511		45 34	01.		1818.2			
Co. Cock, T. 1 agpol 1938 (d) r'45	455	٠.	122 111		132.1	1169.0	ì		
	<u>,</u>		45 33	;	1778.9				
Lower Lt. 1938(a	3) 4:34		122 43	. 29	638.5				
1 FT. *, 3048006 METER	2.4.7	<u> </u>	,	30.00		T T Dood	το ο ο ο ο	30.1	M-2388-12 20 Documber 10時

FIELD INSPECTION REPORT

PORTLAND, OREGON

PROJECT PH-141

August 1954

2. Areal Field Inspection:

The portion of the City of Portland, Oregon located in the vicinity of Swan Island comprises much of the industrial section of the city.

The Willamette River flows northward through this area and empties into the Columbia River about five miles downstream. There is only slight tidal action in the river, but when the snows melt in the mountains in the spring the river sometimes rises to extreme heights, often causing serious flood damage such as occurred in May 1948. These floods are derived not only from its own drainage area but are also from the flood waters of the Columbia River which spread into the Willamette River. At Swan Island a normal rise in the river, in the spring, is about 18.0 ft. above the U.S. Engineers Low-water datum for the river.

Along the southwest shore, at this part of the Willamette River, is a low flat strip of land terminating abrubtly about 3/4 mile inshore at the base of steep hills. Along this shoreline are many shipping facilities, large railroad yards, oil refineries, lumber companies and many other industrial operations. The Spokane, Portland and Seattle R. R. runs along this side of the river and crosses to the northeast shore at Doane Point.

Swan Island, which is actually a low flat peninsula, is the site of a former World War II shipyard. It is now occupied by several industrial enterprises consisting principally of steel, lumber and marine supplies. Excellent dry-dock facilities and repairs for ocean going ships are available at the northwest end of the island. At the southeast end or entrance to Swan Island is the U. S. Coast Guard Station and immediately across the road is the U. S. Naval and Marine Corps Reserve Training Center. The latter has wharf facilities for its training vessels at the head of Swan Island Basin, which lies along the northeast shore of Swan Island. The many other government agencies which were housed on Swan Island have recently moved to new quarters located elsewhere in the City of Portland.

Along the northeast side of Swan Island Basin is a semi-cir-

cular area known as Mocks Bottom through which runs the northbound tracks of the Union Pacific R. R. This area is constantly being filled with river bottom material during dredging operations in the Willamette River. Several large warehouses have recently been built on the filled ground at the southeast end of Mocks Bottom. Mocks Bottom terminates inshore at a 150 ft. high bluff. Inshore from the bluff the area is chiefly residential. From Swan Island northward along the northeast shore of the Willamette River is a narrow flat strip of land terminating } mile inshore at the base of a 150 ft. bluff. Several industries, chiefly lumber, are located here. In the flat area inshore from the top of the bluff are the University Park and St. Johns districts of Portland which are residential. At the southeast end of this area, facing the river, is the University of Portland. On the campus near the edge of the high bluff is a boulder monument commemorating a spot from which Lewis and Clark viewed the Willamette River. This is the farthest point upstream of the Willamette River that they reached in their journey westward.

Southeast of Swan Island along the northeast shore of the Willamette River is also a flat area terminating about $\frac{1}{2}$ mile inshore at the base of a 150 ft. bluff. Here are located the Union Facific R. R. yards and several grain elevators and grain shipping facilities.

The photography is excellent and planimetric features are easily decernable. The photographs were taken, however, when the river was in flood stage or about 18.0 ft. above the U. S. Engineers Low-water datum and the shoreline at the desired height is covered. The inspection of the shoreline and some shoreline structures will be deferred until new photography, to be made in the fall of 1954, is received. Provision has been made in this report for later insertion of pages discussing Item 7, "Shoreline and alongshore features."

3. Horizontal Control:

A search was made for all horizontal control stations listed on the project index and appropriate recovery notes executed on Forms 526.

Stations were positively identified at all places as requested on a designated horizontal control identification copy of the project index except in the extreme southeast corner of the project where stations requested to be identified were destroyed, namely:

/ PORTLAND, EASTERN & WESTERN LUMBER CO. TANK, 1938

2. PORTLAND, EASTERN & WESTERN LUMBER CO. MORE EASTERN OF TWO STACKS, 1938

In lieu of these stations two other stations were identified, one just north and one just south of the destroyed stations.

Also to replace a destroyed intersection station located in Mocks Bottom, namely PORTLAND, MOCKS BOTTOM R.R. SIGNAL, 1938, there were located intersection stations as follows:

PORTLAND, UNION PACIFIC R.R. BLOCK SIGNAL, 12 L, 1954 PORTLAND, UNION PACIFIC R.R. BLOCK SIGNAL, 12 R, 1954

One other intersection station was located, namely:

SWAN ISLAND LOWER LIGHT, 1954

4. Vertical Control:

Not applicable except that several tidal bench marks were recovered and identified.

5. Contours and Drainage:

Contours are not applicable. Drainage was indicated on the field photographs with the proper symbol.

6. Woodland Cover:

Not applicable.

7. Shoreline and Alongshore Features:

The alongshore detail and shoreline datum plane includes the Willamette River and the Swan Island Basin, commencing about 0.3 mile southeast of the highway bridge at St. Johns and extending upstream for about 4.5 miles.

The shore sediments are mostly sand and mud except in the fill areas which are usually of a stone-boulder composition, with occasional concrete revetments, piling bulkheads and riprap.

The foreshore consists chiefly of sand and mud sediments.

The datum plane of the shoreline indicated on the photographs is 5.0 feet above the low water datum of the U. S. Army Engineers. The $0 \neq 00$ of the U. S. Army Engineers gauge at St. Johns Mooring is 1.29 feet above mean sea level.

When determining the shoreline on the photographs the daily readings were obtained from the above gauge and corrections were made.

Photography for the shoreline inspection was flown the 26th of September 1954. The water level at the time of photography was 3.14 feet above U. S. Army Engineers low water datum. Earlier photography was inadequate due to the extreme high water level. (actual river level)

Measurements from identifiable objects were used to aid in the establishing of the indicated shoreline.

Low water line is not applicable. It was not delineated. Fore-shore areas visible on the photographs were labeled.

The steep river banks that are generally found along the major portion of the shore rise 15 to 25 feet. These are composed of sand or sand-gravel, reinforced in some places by riprap, pile bulkheads and concrete revetments.

Piers, wharves, floating catwalks, marine ways and moorings are found along the length of both shores of the river and the northeast shore of Swan Island, except in the southeast project area which is highly industrialized and along the unprotected southwest side of Swan Island. Numerous piling and dolphins are found offshore that serve as moorings for log rafts. All of these are clearly visible on the photographs.

There is a double cable crossing located just south of the Spokane, Portland and Seattle R.R. Bridge. This double crossing is indicated on photograph No. 54-W-2927. There are no overhead cable crossings spanning the Willamette River or the Swan Island Basin within the limits of the shoreline inspection. (51/ @ 9:41 Que 1.141 Que 1.141

The clearance for the Spokane, Portland and Seattle R.R. Bridge was redetermined. This is the only bridge within the limits of the shoreline inspection.

Other shoreline features are the abandoned ferry slip offshore and near the southwest tip of Swan Island and a line of houseboats moored on the north side of the mouth of Swan Island Basin, which have been under discussion in this area as being an obstruction to navigation into the Swan Island Dry Docks and Basin.

Since the time of photography a new pier and several dolphins were constructed on the west shore of the Willamette River opposite the north-west end of Swan Island. These are shown on photograph No. 54-W-2925.

8. Offshore Features:

There are no offshore features.

9. Landmarks and Aids:

Landmarks were selected by the hydrographic party during the hydrographic survey in the spring of 1954. All of these were verified and those which did not have a triangulation geographic position were identified on the photographs.

Fixed aids to navigation were verified and identified on the photographs. SWAN ISLAND LOWER LIGHT, 1954 was located as an intersection station. Only one direction was observed on SWAN ISLAND MIDDLE LIGHT.

10. Boundaries, Monuments and Lines:

Not applicable.

11. Other Control:

During the hydrographic survey in the spring of 1954 the location of several recoverable topographic stations, not reported on Forms 567, were submitted on Forms 524. All but one of these were identified on the field photographs and a sketch was made for each on the applicable Form 524. They are as follows:

BOO, DON, MADRONA, ORE, POD, ROW, TEX, TOW, VER, WALL, and WAN

There was no photograph coverage for WALL.

12. Other Interior Features:

Buildings were classified and indicated on the field photographs in an area at least 300 meters wide along both shorelines to the extent of photograph coverage. In the interior public and landmark buildings were indicated.

All roads are (D.F.L.) double full lines unless otherwise indicated on the field photographs.

The bridge clearances of the Spokane, Portland and Seattle R.R. bridge were not measured because there has been no change since they were last obtained. If desired they may be measured at the time of shoreline inspection. Was done — see for 10

13. Geographic Names:

Not applicable.

14. Special Reports and Supplemental Data:

There are none.

Approved:

Fred Natella

Comdr., USC&G Survey

Chief of Party

Respectfully submitted:

J. Edward Deal, Jr.

Cartographer

Compilation Report T-11463

31. <u>Delineation</u>. Both Kelsh plotters in the Washington office were used in compilation of this sheet.

32. Control

- a. All recovered control in the area covered by the photography was well identified and usable.
- b. Control was well located in the end models of the flight. The two new stations established near "Portland, Mocks Bottom RR Signal, 1938", could not be reached in the models in the center of the area to be mapped because of excessive tilt. By working from the ends of the strip toward the center with pass points left on adjacent models, the center models were satisfactorily oriented.
- c. Several field identified control points on the south west side of the strip were not used because they were outside of the area covered by the photographs.

Viking, 1938 Kittridge, 1938 Portland, Texas Oil Co. Stack, 1938 American Can Co., Elevated Tank, 1935

- 33. Not applicable.
- 34. Not applicable.
- 35. Shoreline and alongshore details One pier not on existing photographs was added from a field sketch by holding to adjacent detail.
- 36. Not applicable.
- 37. Landmarks and aids to navigation All landmarks and aids to navigation were located by planetable and submitted in Chart Letter 587 (54) except Shaver Dock Light. The position for this light was added to the original chart letter during compilation.

Positions obtained by Kelsh Plotter for all landmarks and aids to navigation were added to the original chart letter in red. These positions varied from the planetable positions as much as four meters.

38. Recoverable Topographic Stations. - Topo Station HID 1954 (WCFP-B-54) was misidentified on the phtos. A position was obtained for the flagpole identified on the photo and described on Form 524. Station HID was office identified and the planetable position checked.

- 39. Not applicable.
- 40. Not applicable
- 41. Bridge Clearance S. P. and S. Railway bridge vertical clearance is to be considered approximate. The tidal reference station is not close enough to give accurate data at bridge location.
- 46. Comparison with existing maps T-8679, 1947, Scale 1:9600 was used for comparison.
- 47. Comparison with nautical charts. -

Chart No. 6155, 1:20,000 1951, 4/12/54

48. Geographic Names list:

Swan Island Basin Willamette River

Names approved. 4-18-55 agus

49. Notes for Hydrographer:

Topographic Stations Tripod (Pod) 1954

Building (Wan) 1954

Building (Ver) 1954

Booth (Boo) 1954

Chimney (Tow) 1954

Firebox (Tex) 1954

Pumphouse (Ore) 1954

Gable (Don) 1954

Flagpole 1954

Other stations reported on Form 567

Star Ron Yar Air Skel

Approved by:

Submitted by:

C. Theurer

Supervisory Cartographer

Charles E. Cook

Cartographic Photogrammetric Aid

Charle E. Cook

Form 567 April 1945

Chart Lotter: WOFF-54-2

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

16 June 1954 App

South Bend, Ihahlagton

MONFEGATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED STRIKE OUT ONE

t the following objects which have (nave not): been inspected from seaward to determine their value as landmarks by the charts indicated.	Copy Chart Letter 587 (54) 6. d. Coopy Chief of Par	POSITION	DATE OF CH	DESCRIPTION SIGNAL O / // B.H.ETERS O / D.P.METERS O / D.P	stude con 45 34 (941.6) IN Infangulla- 1913 x 6155	Lam 45 34 (1361) 22 43 (716) - Hametable x 6166	ted as 15,000 to 15 land 15 34 (1670) 122 13 (671) " " 1954 x 6166	2 % S7 \PH \S%	at Sta / 45 33 1640 22 42 1067, " " 1954 z 6166	ohismancy Act. 45 30 1296, 122 42 196, 8 a 1954 × 6166	d white radio rast \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 white radio must 3 189 45 39 (1035) a 1229 a 1229 a 1954 z 6166	I white redic most & June 45 33 (1098) 22 41 (196) " " 1954 z 6166	i white must be used as 33 7/2 and 122 and 120 at 120 at 25 at 6266	" " " 1954 × 1954 × 10954 × 10954 × 6166	of th yardon 182 45 33 (155,4122 42 9339, " " 1954 x (166	bank Nor / 45 33 (12.48.0) (2.92.7) thengalis 1935 5166	
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PF COMMERCE

page 2 Chart Letters Warm-54-2

GEODETIC SURVEY DEPARTMENT

U. S. COASI AND GEODEIIC SURVET	MONTH CONTINUE AND LANDMARKS FOR CHARTS

Form 367 April 1945

STRIKE OUT ONE TO BE CHARTED TROMBER

South Bend, Mattheton

16 two 19%, 12

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

The positions given have been checked after listing by

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STATE					POSITION			МЕТНОВ		<u> </u>	TRAH:	
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CHARTING	DESCRIPTION	SIGNAL	0	P. M. METERS		"D. P. METERS	DATUM	SURVEY No.	LOCATION	OH\$NL HVBBC	OLLEH)
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	on the original survey sheet or triangulation date.		compared with								 	
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·:	G. E. Baraden										-	
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DEPARTMENT OF COMMERCE

URIL LOTTOR: HUR INCH

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ORTIANDMARKS FOR CHARTS

TO BE CHARTED STRIKE OUT ONE

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

CHANTING CHANTI				•	The same and an			1	-			
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PHOTOGRAMMETRIC OFFICE REVIEW

T- //46 3

1. Projection and grids <u>CCC.</u> 2. Title <u>CCC.</u> 3. M	anuscript numbers <u>CES</u> 4. Manuscript size
CONTROL	. STATIONS
5. Harizantal control stations of third-order or higher accu	racy <u>CCC</u> 6. Recoverable horizontal stations of less
•	7. Photo hydro stations8. Bench marks
9. Plotting of sextant fixes10. Photogrammetri	c plot report 11. Detail points
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12. Shoreline CEC 13. Low-water line CEC 14.	Rocks, shoals, etc. <u>C.C.S.</u> 15. Bridges <u>C.S.S.</u> 16. Aids
to navigation CLS 17. Landmarks CSS 18. Other	er alongshore physical features <u>CES</u> 19. Other along-
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33. Geographic names CEC. 34. Junctions CEQ	35. Legibility of the manuscript 36. Discrepancy
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Reviewer	Supervisor, Review Section or Unit
41. Remarks (see attached sheet)	
41, Remarks (See accurated sheet)	
FIFT COMPLETION APPLITIONS AND	CORRECTIONS TO THE MANUSCOPIET
	CORRECTIONS TO THE MANUSCRIPT
 Additions and corrections furnished by the field comp manuscript is now complete except as noted under item 	pletion survey have been applied to the manuscript. The 43.
Complier	Supervisor
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43. Remarks:	M-2623-12

Review Report T-11463 Shoreline Map 18 April, 1955

62. Comparison with Registered Surveys:

T-1562	1:20,000	1884
T-6618a, b,	1:10,000	1938
T-8679	1:9,600	1945
T-8680	n	11
T-8686	19	ti
T-8687	n	27

The present survey supersedes the older surveys for shoreline, shore structures, piling and dolphins.

63. Comparison with Maps of Other Agencies:

USGS Fairview, Washington-Oregon

USGS Portland NE, Washington-Oregon

These quadrangles are in the "advance proof" stage, and were not available for comparison.

64. Comparison with Contemporary Hydrographic Surveys:

H-8113

1:5,000

1954

Not available for comparison.

65. Comparison with Nautical Charts:

6155

1:20,000

1951

Charted but not mapped:

- 1. Wreck: South shore Wellamette River and west of Pennsylvania Salt Co.'s plant.
- 2. Wreck: South shore Wellamette River opposite Swan Island Lower Light.

The bridge clearance on the manuscript was changed to 51 ft. during review because the field measurement 51.1 ft. was secured when the river level was at approximately MH River level according to predicted tide data.

Changes during review:

Many piles and dolphins Shaver Dock

Abd. pier between Shaver Dock and Pacific Oceanic Terminal. Several building class changes.

66. Accuracy:

This survey complies with project instructions and meets the National Standards of Accuracy.

Reviewed by:

APPROVED:

Chief, Review Section Photogrammetry Division Chief, Nautical Chart Branch

Charts Division

Chief, Photogrammetry Division

Dec 11,1957

Chief, Coastal Surveys Division