

10361

Orig

Diag. Cht. Nos. 5902-2 & 6002-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric (Photogrammetric)

Field No. Ph-155 Office No. T-10361

LOCALITY

State Oregon

General locality Columbia River

Locality Youngs Bay

1957.55 - 1958

CHIEF OF PARTY

V. Ralph Sobieralski, Chief of Party
Lorne G. Taylor, Photogrammetric Office

LIBRARY & ARCHIVES

MAY 1 1962

DATE

USCOMM-DC 5087

10361

DESCRIPTIVE REPORT - DATA RECORD

T - 10361

Project No. (II): Ph-155

Quadrangle Name (IV):

Field Office (II): Astoria, Oregon
Seaview, Washington
Photogrammetric Office (III): Portland, Oregon

Chief of Party: V. Ralph Sobieralski
Unit Chief: C. D. Upham, C. H. Bishop
Officer-in-Charge: Lorne G. Taylor

Instructions dated (II) (III):
5 Oct. 1955)
12 Oct. 1955 } II & III
3 July 1957)

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Kelsh Stereoscopic Instrument

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:5000
Pantograph Scale: 1:10,000

Scale Factor (III):

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 3/27/62

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): X

Mean sea level 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): HIGHWAY, 1935

Lat.: 46° 09' 11.650"

Long.: 123° 51' 44.638"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Oregon

Zone: North

Y= 924,309.50

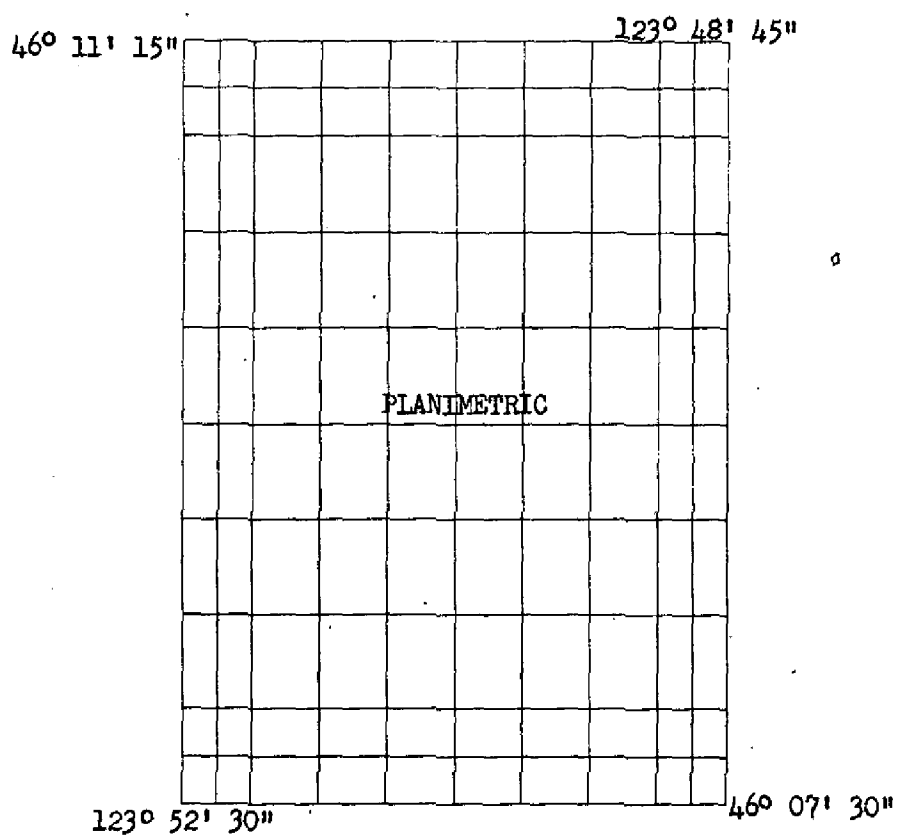
X= 1,148,011.73

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.

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY



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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): C. D. Upham, E. T. Jenkins
W. P. James, C. E. Bishop Date: Oct. 1957

Planetable contouring by (II): Date:

Completion Surveys by (II): *Supplementary aid*
determined Date: 1958

Mean High Water Location (III) (State date and method of location): Oct. 1957 by field inspection
and compilation by Kelsh Instrument.

Projection and Grids ruled by (IV): J. R. Haskins Date: 10-28-57

Projection and Grids checked by (IV): J. R. Haskins Date: 10-28-57

Control plotted by (III): D. N. Williams Date: 11-18-57

Control checked by (III): L. L. Graves Date: 11-18-57

Radial Plot or Stereoscopic Control extension by (III): John D. Perrow, Jr. Date: 11-28-57

Stereoscopic Instrument compilation (III): Planimetry D. N. Williams Date: 12-30-57
Contours L. L. Graves Date: 1-23-59

Manuscript delineated by (III): L. L. Graves, Scribing Date: 3-23-60
C. C. Harris, Stick-up Date: 7-19-60

Photogrammetric Office Review by (III): J. E. Deal Date: Aug. 1960

Elevations on Manuscript checked by (II) (III): Date:

DESCRIPTIVE REPORT - DATA RECORD

5. U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Camera (kind or source) (III): C&GS Single lens "W" camera

Number	Date	Time	Scale	Stage of Tide
55-W-8593 & 8594	6-6-55	10:59	1:10,000 ratio	3.8' above M.L.L.W.
55-W-8602 & 8603	"	11:07	" "	" "
55-W-9777 thru 9779	9-24-55	11:48	1:25,000 contact	3.5' "
55-W-9788 thru 9790	"	11:58	" "	" "

Tide (III)

Reference Station: Astoria (Tongue Point) Oregon
Subordinate Station: Astoria (Youngs Bay) Oregon
Subordinate Station:

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
	6.5	8.2
	6.7	8.6

Washington Office Review by (IV):

Date: 2/23/62

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 9

Shoreline (More than 200 meters to opposite shore) (III): 15

Shoreline (Less than 200 meters to opposite shore) (III): 6

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 31 Recovered: 23 Identified: 11

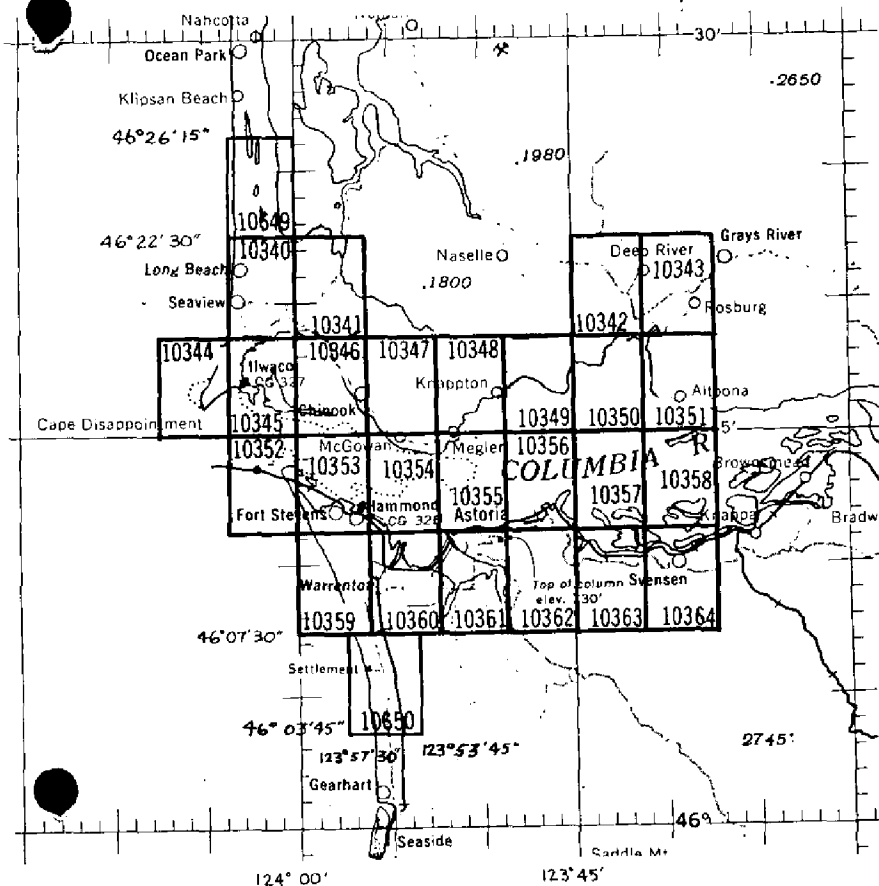
Number of BMs searched for (II): 4 Recovered: 4 Identified: 4

Number of Recoverable Photo Stations established (III): None

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

PLANIMETRIC PROJECT PH-155 MOUTH OF COLUMBIA RIVER, WASH. OREGON



OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	LIN. MI. SHORT LINE	AREA SQ. MILES
10340	9	10
10341	8	12
10342	4	13
10343	7	13
10344	6	2
10345	13	3
10346	11	6
10347	3	12
10348	4	11
10349	4	8
10350	6	3
10351	8	9
10352	3	1
10353	9	4
10354	3	1
10355	4	2
10356	5	5
10357	8	1
10358	21	3
10359	5	6
10360	14	11
10361	15	9
10362	8	12
10363	17	10
10364	12	12
10649	8	8
10650	<u>4</u>	<u>8</u>
TOTAL	219	193

FIELD INSPECTION REPORT

Map Manuscript T-10361

Project Ph-155

Refer to Field Inspection Report for Project Ph-155, Mouth
of Columbia River to Altoona, July to November 1957. (11 T-10649)

AKA

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10361

Project Ph-155

Refer to the Stereoplanigraph Bridge Reports for Strips
#1 and #2 which are included in the Descriptive Report for T-10353
(1957).

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT
COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T-10361

PROJECT NO. Ph-155

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -COORDINATE LONGITUDE OR λ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
ASTORIA RADIO STA. KAST N.W. TOWER 1951	Oreg.N. Office Comp.	N.A. 1927	932,340.17	2340.17	(2659.83)		713.3	(810.7)	
			1,151,469.46	1469.46	(3530.54)		447.9	(1076.1)	
ASTORIA P.P. & L. STACK (ORE) 1935	Oreg.N. P-213	"	930,856.34	856.34	(4134.66)		261.0	(1263.0)	
			1,153,300.63	3300.63	(1699.37)		1006.0	(518.0)	
ASTORIA PORT DOCKS BLACK TANK (ORE) 1935	Oreg.N. P-225	"	936,699.41	1699.41	(3300.59)		518.0	(1006.0)	
			1,149,911.92	4911.92	(88.08)		1497.2	(26.0)	
YOUNGS BAY RAILROAD BRIDGE, Swing Span Light, 1909-r:1935	Oreg.N. P-215	"	932,683.33	2683.33	(2316.63)		817.9	(706.1)	
			1,147,338.17	2338.17	(2661.82)		712.7	(811.3)	
ASTORIA CROSSING RANGE, REAR LIGHT 1958	Office Comp.	"	46 11 09.78				302.0	(1550.6)	
			123 48 56.14				1203.8	(83.0)	
ASTORIA RADIO STA. KAST S.E. TOWER 1951	P-1130	"	46 10 30.090				929.1	(923.5)	
			123 50 56.331				1208.3	(78.7)	
RADIO 1, 1916	G-3422 P-341	"	46 09 04.216				130.2	(1722.4)	
			123 49 36.069				774.0	(513.6)	
RADIO 3, 1916	G-3422 P-342	"	46 09 09.737				300.7	(1551.9)	
			123 49 39.356				844.5	(443.0)	
RADIO 4, 1916	"	"	46 09 10.720				331.0	(1521.6)	
			123 49 36.905				791.9	(495.6)	
YOUNGS BAY HIGHWAY BRIDGE, CORNER POST, (ORE), 1935	G-3422 P-338	"	46 09 59.877				1848.8	(3.8)	
			123 50 12.206				261.9	(1025.7)	
WEST, (ORE), 1935	P-314	"	46 11 04.223				130.4	(1722.2)	
			123 50 50.307				1078.9	(207.9)	
HIWAY (ORE), 1935	Oreg.N. G-3422 P-324	"	46 09 11.650				559.7	(1792.8)	
			123 50 44.698				957.9	(929.6)	

1 FT. = 3048006 METER

COMPUTED BY: J.E.D.

DATE 10-15-57

CHECKED BY: D.N.W.

DATE 10-17-57

COMM-DC-57843

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T-10361

PROJECT NO. Ph-155

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR χ -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)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
HIWAY (ORE) 1935	Oreg.N. P-209	N.A. 1927	924,309.50 1,148,011.73	4309.50 (690.50) 3011.73 (1988.27)		1313.95 (210.5) 918.0 (606.0)	
DO Sub Station		"	924,137.99 1,148,044.96	4137.99 (862.01) 3044.96 (1955.04)		1261.3 (262.7) 928.1 (595.9)	
RADIO 2, 1916	Oreg.N. P-215	"	923,334.92 1,157,315.15	3334.92 (1665.08) 2315.15 (2684.85)		1016.5 (507.5) 705.7 (818.3)	
DAGGETT, 1935	Oreg.N. P-209	"	919,826.40 1,150,880.63	4826.40 (173.60) 880.63 (4119.37)		1471.1 (52.9) 268.4 (1255.6)	
DO Sub Station		"	919,823.17 1,150,907.35	4823.17 (176.83) 907.35 (4092.65)		1470.1 (53.9) 276.6 (1247.4)	
TROTTER, 1935	Oreg.N. P-209	"	915,860.02 1,148,857.38	860.02 (4139.98) 3857.38 (1142.62)		262.1 (1261.9) 1175.7 (348.3)	
DO Sub Station		"	915,808.06 1,148,909.99	808.06 (4191.94) 3909.99 (1090.01)		246.3 (1277.7) 1191.8 (332.2)	
ASTOR COLUMN (ORE) 1935	Oreg.N. P-214	"	934,121.05 1,160,103.92	4121.05 (878.95) 103.92 (4896.08)		1256.1 (267.9) 31.7 (1492.3)	
YOUNGS BAY LIGHT 1951	Oreg.N. Office Comp.	"	929,516.25 1,149,747.07	4516.25 (483.75) 4747.07 (252.93)		1376.6 (147.4) 1446.9 (77.1)	
YOUNGS 2, 1951 or YOUNGS 1935 (Reset)	Oreg.N. P-205	"	927,297.02 1,154,472.48	2297.02 (2702.98) 4472.48 (527.52)		700.1 (823.9) 1363.2 (160.8)	
DO Sub Station		"	927,324.56 1,154,441.42	2324.56 (2675.44) 4441.42 (558.58)		708.5 (815.5) 1353.7 (170.3)	16.
ASTORIA ST. MARYS	Oreg.N.	"	935,908.13	908.13 (4091.87)		276.8 (1247.2)	
CHURCH SPIRE, 1916	P-214	"	1,157,760.17	2760.17 (2239.83)		841.3 (682.7)	

1 FT. = 3048006 METER

COMPUTED BY: J.E.D.

DATE 10-15-57

CHECKED BY: D.N.W.

DATE 10-17-57

SCALE FACTOR None

COMM-DC-57843

DATE 10-17-57

COMPILATION REPORT

Map Manuscript T-10361

Project Ph-155

31. Delineation:

The Kelsh Instrument was used for the compilation of planimetric details. Field inspection was adequate and no difficulties were encountered.

32. Control:

Horizontal control was adequate.

33. Supplemental Data:

Astoria, Clatsop County 1" = 1300' Approx.

City of Warrenton, Clatsop County 1" = 1600' Approx.

34. Contours and Drainage:

Contours are not applicable.

Drainage was field inspected and verified during the Kelsh compilation assisted by reference to the U.S.G.S. 7½ minute Astoria, Oreg. - Wash. quadrangle.

35. Shoreline and Alongshore Details:

The shoreline was adequately field inspected.

Foreshore areas visible on the photographs were compiled.

None of the photographs were taken at or near M.L.L.W. and no approximate low-water lines were compiled.

36. Offshore Details:

Numerous piling and dolphins are offshore in all of the water areas.

37. Landmarks and Aids:

Forms 567 are submitted for nine landmarks applicable to Nautical Chart 6151.

Form 567 is submitted for deletion of two landmarks now shown on Nautical Chart 6151.

Form 567 is submitted for two fixed aids to navigation.

Refer to discrepancy overlay for additional data on these features.

38. Control for Future Surveys:

None.

39. Junctions:

Satisfactory junctions were made with T-10355 on the north, T-10360 on the west and T-10362 on the east. There is no contemporary survey to the south.

40. Horizontal and Vertical Accuracy:

Vertical accuracy is not applicable. There are no areas that are believed to be of sub-normal accuracy.

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 7½ minute Astoria, Oreg. - Wash. quadrangle, Scale 1:24,000, published in 1949.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6151, 34th Edition Oct. 10, 1960, Corrected through Jan. 7, 1961 and Nautical Chart No. 6002, Scale 1:180,789, 10th Edition July 9, 1942, Revised May 23, 1960, Corrected through Jan. 7, 1961.

Items to be Applied to Nautical Charts Immediately.

None.

Items to be Carried Forward.

None.

Approved:



Fred Natella, CAPT, C&GS
Portland District Officer
for
Lorne G. Taylor, CDR, C&GS

Respectfully submitted:



J. Edward Deal
Cartographer

Map Manuscript T-10361

49. Notes to the Hydrographer:

No recoverable topographic stations were located.

There are numerous natural objects with triangulation positions which were recovered and identified during field inspection.

PHOTOGRAMMETRIC OFFICE REVIEW

T-10361

1. Projection and grids ☒ 2. Title ☒ 3. Manuscript numbers ☒ 4. Manuscript size ☒

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ☒ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ☒ 7. Photo hydro stations None 8. Bench marks ☒ 9. Noting of sextant fixes ☒ 10. Photogrammetric plot report ☒ 11. Detail points ☒

ALONGSHORE AREAS

(Nautical Chart Date)

12. Shoreline ☒ 13. Low-water line ☒ 14. Rocks, shoals, etc. ☒ 15. Bridges ☒ 16. Aids to navigation ☒ 17. Landmarks ☒ 18. Other alongshore physical features ☒ 19. Other along-shore cultural features ☒

PHYSICAL FEATURES

20. Water features ☒ 21. Natural ground cover ☒ 22. Planetable contours None 23. Stereoscopic instrument contours None 24. Contours in general None 25. Spot elevations None 26. Other physical features ☒

CULTURAL FEATURES

27. Roads ☒ 28. Buildings ☒ 29. Railroads ☒ 30. Other cultural features ☒

BOUNDARIES

31. Boundary lines None 32. Public land lines None

MISCELLANEOUS

33. Geographic names ☒ 34. Junctions ☒ 35. Legibility of the manuscript ☒ 36. Discrepancy overlay ☒ 37. Descriptive Report ☒ 38. Field inspection photographs ☒ 39. Forms ☒ 40. _____

Reviewer

Edward Deal
Supervisor, Routes Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler

Supervisor

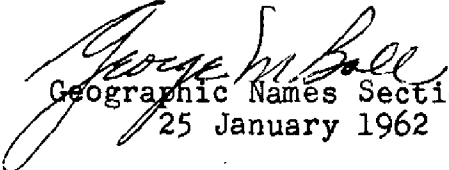
43. Remarks:

9-2123-42

48. Geographic Names:

Astoria
Barrett Slough
Binder Slough
*Cook Slough
Coxcomb Hill
Craig Creek
*Daggett Point
Fort Clatsop
Green Slough
Jeffers Garden
*Jeffers Slough
Knowland Slough
Lewis and Clark River
Miles Crossing
Smith Point
Spokane, Portland and Seattle Railway
Youngs Bay
Youngs River

*B.G.N. Decision


Geographic Names Section
25 January 1962

TO BE CHARTERED

STRIKE OUT TWO

Portland, Oregon 16 Aug. 1961

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

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

Fred Natella *Chief of Party.*

[illegible]

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. Revisions shall show both the old and new positions. 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.

* TABULATE SECONDS AND METERS

~~CONFIDENTIAL~~ STRIKE OUT TWO
TO BE DELETED

Portland, Oregon 16 Aug. 1961

I recommend that the following objects which have ~~(been examined)~~ been inspected from seaward to determine their value as landmarks be ~~examined~~ *(deleted from)* the charts indicated.

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

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. Revisions shall show both the old and new positions. 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.

TABULATE SECONDS AND METERS

069077308500X

Portland, Oregon 16 Aug. 1961

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

Fred Neteille *Chief of Party.*

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. Revisions shall show both the old and new positions. 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.

USCOMM-DC 27120

REVIEW REPORT
T-10352 through 10364 and T-10650
Planimetric December 18, 1961

62. Comparison with Registered Topographic Surveys

Map No.	Scale	Year	Map No.	Scale	Year
317	1:22,962	1850-51	1806	1:10,000	1887
1112	1:10,000	1868	4226	1:20,000	1926
1123	"	1868	4250	"	"
1138	"	1869	4251	"	"
1139a&b	"	1869	4263	1:10,000	1926
1234	"	1870	4264	"	"
1235	"	1870	6521a	"	"
1249	"	1870	6521b	"	1936

The manuscripts covered by this review report supersede the surveys listed above for purposes of nautical chart construction.

63. Comparison with Maps of Other Agencies

Comparison was made with the latest existing maps during the photogrammetric review. Each report lists under "Comparison with Maps, etc." the quadrangles that were used.

64. Comparison with Contemporary Hydrographic Surveys

Where applicable, each map was compared with the latest hydrographic survey. All available hydrographic surveys are unverified. Discrepancies are listed under the heading of each map. If the map is not listed, no discrepancies exist during review.

T-10352 - The submerged rocks shown on the manuscript which appear to once have been part of the jetty were compiled in the photogrammetric office from a U.S. Engineer Survey dated 1956. This feature was not developed by hydro on sheets H-8421 through H-8423. See the Descriptive Report for this survey for details.

T-10354 - A pile is shown on the manuscript above MHW whereas hydro shows this pile submerged at latitude 46°14'37" and longitude 123°55'16". The pile was field inspected.

T-10356 - A rock is shown on the manuscript as awash MHW and on hydro sheet H-8420 as (4) with a position difference of approximately 5 meters. The rock is located at latitude 46°12'45" and longitude 123°45'18". The height of the rock was given by the field inspector.

T-10357 - Piles and/or shags shown on Chart 6151 in the vicinity of latitude $46^{\circ}13'30''$ and longitude $123^{\circ}42'30''$ and latitude $46^{\circ}12'30''$ and longitude $123^{\circ}42'30''$ are not shown on the unverified smooth sheet. They are too far offshore for photogrammetric location.

65. Comparison with Nautical Charts

Comparison was made with Charts 6151 and 6152, 34 Edition October 10, 1960 corrected June 26, 1961. Nautical Charts did not use these surveys for the construction of the new edition. Many minor changes in offshore features and planimetric detail were noted. Only dangers to navigation or significant changes in detail have been noted for each sheet.

T-10354 - Some differences were noted in; shoreline features in the vicinity of Hammond at latitude $46^{\circ}11'30''$, longitude $123^{\circ}56'00''$. The pile area in the vicinity of latitude $46^{\circ}12'30''$, longitude $123^{\circ}52'30''$ is incomplete. It is a shoal area and of no danger to navigation.

T-10361 - A difference exists in the position of a shag at latitude $46^{\circ}11'03''$ and longitude $123^{\circ}51'46''$ in Youngs Bay. Landmark "Drum" should be deleted from Chart as recommended on Form 567.

66. Adequacy of Results and Future Surveys

These maps comply with instructions and meet National Standards of Map Accuracy.

Respectfully submitted:

A. K. Heywood
A. K. Heywood

Approved:

R. C. Lande
Chief, Review and Edit Sec.

Marvin T. Carlson
Chief, Div. of Nautical Charts

J. E. Hughes 6/6/62
Chief, Div. of Photogrammetry

Max L. K. Letts
Chief, Div. of Coastal Surveys

Operations

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10361

Record of Application to Charts

[illegible]

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.