

10340

10340

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-10340

LOCALITY

State Washington

General locality Columbia River

Locality Long Beach

195255 - 1957

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

MAY 1 1962

DATE

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T - 10340

Project No. (II): Ph-155

Quadrangle Name (IV):

Field Office (II): Seaview, Washington

Chief of Party: V. Ralph Sobieralski

Unit Chief: R. B. Melby

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Lorne G. Taylor

Instructions dated (II) (III): 5 October 1955)
12 October 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): 3/5/62

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: X
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): HOLMAN, 1926

Lat.: 46° 19' 26.618"

Long.: 124° 03' 28.770"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: Washington Zone: South

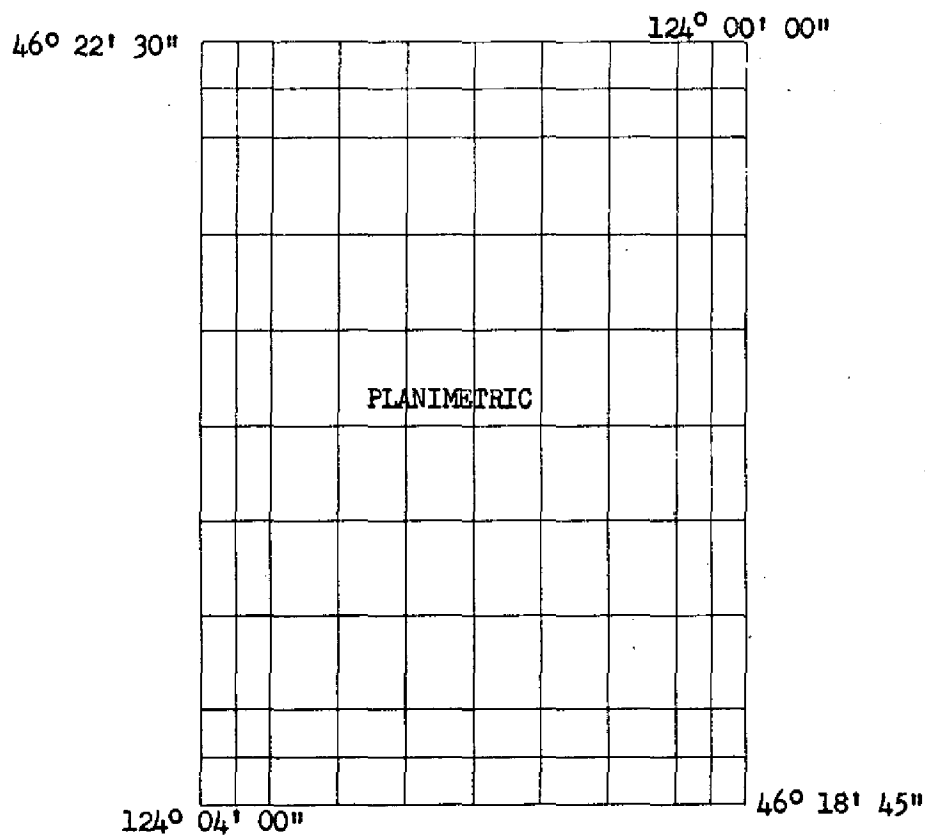
Y= 381,549.73

X= 1,101,395.55

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. H. Bishop & R. B. Melby

Date: Oct. 1957

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

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: 12-6-57

Projection and Grids checked by (IV): I. V. Fitzgerald

Date: 12-10-57

Control plotted by (III): D. N. Williams

Date: 3-3-58

Control checked by (III): L. L. Graves

Date: 3-3-58

Radial Plot or Stereoscopic
Control extension by (III): John D. Perrow, Jr.

Date: Nov. 1957

Planimetry D. N. Williams
Stereoscopic Instrument compilation (III):
Contours

Date: 7-22-58

Date:

Manuscript delineated by (III): L. L. Graves, Scribing
C. C. Harris, Stick-up

Date: 10-8-58
6-7-60

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

Date: Sept. 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): USC&GS Single lens "W" & "L"

| Number | Date | Time | Scale | Stage of Tide |
|------------------------|---------|-------|----------|---------------------|
| 55 W 9911 thru 9913 | 9-24-55 | 13:28 | 1:25,000 | 3.6' above M.L.L.W. |
| 55 W 9917 and 9918 | " | 13:36 | " | 3.6' above M.L.L.W. |
| 57 L 1830 and 1831 | 8-18-57 | 15:15 | " | 3.9' above M.L.L.W. |
| 57 L 1846 | " | 15:26 | " | 3.9' above M.L.L.W. |

Tide (III)

Reference Station: Astoria, Oregon
Subordinate Station: Entrance N. Jetty Columbia River
Subordinate Station:

| Ratio of Ranges | Mean Range | Diurnal Range |
|--------------------|---------------|------------------|
| | 6.5 | 8.2 |
| | 6.0 | 7.6 |
| | | |

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):

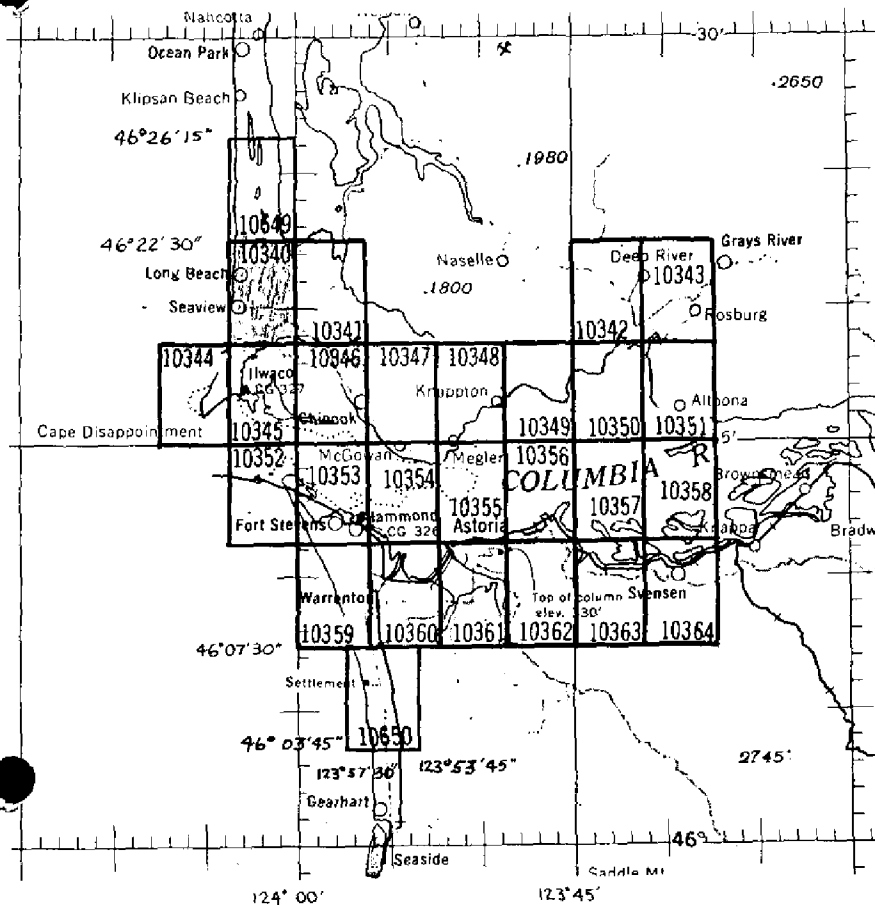
Date:

Land Area (Sq. Statute Miles) (III): 9
Shoreline (More than 200 meters to opposite shore) (III): 10
Shoreline (Less than 200 meters to opposite shore) (III): 1
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 8 Recovered: 5 Identified: 3
Number of BMs searched for (II): 3 Recovered: 3 Identified: 3
Number of Recoverable Photo Stations established (III): 7
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 | 4 | 8 |
| TOTAL | 219 | 193 |

FIELD INSPECTION REPORT

Map Manuscript T-10340

Project Ph-155

Refer to Field Inspection Report for Project Ph-155, "Mouth
of Columbia River to Altoona", July 1957 to November 1957. ~~Being with~~

T-10699 ~~AKA~~

Bridging Report
 PH-155
 Mouth of Columbia River

Strips 7-B and 8-B

These strips are considered as one unit because of the interrelation of the bridging adjustment. The area included models 55-W-9899 thru 9903 and 55-W-9926 thru 9932. All control was held with the exception of W-62, 1936 USE. This station appears to be in error due to misinformation provided by the 29th Engineers as to geographic position. It should be noted that all control in this area is USE and, as proven, in other strips it cannot be held in exact conjunction with Coast and Geodetic Survey control. However, since the area is more or less set off to itself it is felt that the only difficulty will be in the area where sheets 10350 - 10342 and 10351 & 10343 join. It is believed that the area can be joined without too much difficulty. Strip 7-B was put through a preliminary adjustment to furnish additional information for Strip 8-B. Strip 8-B was then adjusted to provide positions of bridge points and additional points for the final straight-line adjustment of Strip 7-B. A supplemental adjustment shift was applied to the Y values of Strip 7-B because of the slight deviation of a portion of the strip. Two models 55-W-9927 - 9928 and 55-W-9929 - 9930 were reset and all bridge points held within 0.2mm.

Strips 7-A and 8-A

These strips, as 7-B and 8-B, are considered as one unit because of their interrelation due to common control and pass-points. The area consists of Models 55-W-9908 thru 9913 and 55-W-9917 thru 9922. All control was held with the exceptions of ss Sock, 1957 and ss Tangent (USE) 1939. ss Sock, 1957 could not be held and appears to be out by approximately 300 feet in both X and Y directions. ss Tangent (USE) 1939 could not be held with Coast and Geodetic Survey control within 15 feet. As was noted in the area south of the Columbia River it was extremely difficult to hold USE and Coast and Geodetic Survey control together and for this reason the station was disregarded. Individually the strips seemed to need a slight supplemental adjustment shift, however, when the strips were considered together the bridge points matched better without the supplemental adjustment. Model 55-W-9908 - 9909 was reset and all bridge-points held within 0.2mm.

APPROVED


 Morton Keller


 John D. Perrow, Jr.

PH-155
Mouth of Columbia River
Positions of Bridge Points

| | <u>X</u> | <u>Y</u> |
|-------|---------------------|----------|
| | 1218365 - | 397882 - |
| | 1218691 - | 391994 - |
| | 1216938 - | 384084 - |
| (991) | 1212144 - | 384508 - |
| | 1209687 - | 397588 - |
| | 1209044 - | 392954 - |
| | 1209483 - | 385577 - |
| | 1201671 - | 399649 - |
| | 1201188 - | 393830 - |
| | 1201360 - | 384852 - |
| (001) | 1203415 - | 386431 - |
| | 1194226 - | 399413 - |
| | 1194911 - | 390783 - |
| | 1194880 - | 384388 - |
| (011) | 1197458 - | 388626 - |
| | 1186526 - | 399609 - |
| | 1186838 - | 392056 - |
| | 1187024 - | 385555 - |
| (021) | 1189224 - | 388395 - |
| | 1178277 - | 399967 - |
| | 1177882 - | 392961 - |
| | 1177620 - | 385801 - |
| (031) | 1180587 - | 389886 - |
| | 1170792 - | 401701 - |
| | 1168646 - | 393895 - |
| | 1170439 - | 385586 - |
| | 1209602 - | 377620 - |
| | 1206156 - | 369684 - |
| | 1202646 - | 379669 - |
| | 1201817 - | 373894 - |
| | 1195735 - | 381453 - |
| | 1193022 - | 373785 - |
| | 1186653 - | 380164 - |
| | 1186364 - | 375041 - |
| | 1180049 - | 382111 - |
| | 1178632 - 1178682 - | 375036 - |
| | 1106056 - | 402975 - |
| | 1105798 - | 394771 - |
| | 1104927 - | 386899 - |
| (121) | 1108073 - | 391276 - |
| | 1111836 - | 402847 - |
| | 1111752 - | 393912 - |
| | 1110955 - | 386881 - |
| | 1118866 - | 401692 - |
| | 1118843 - | 393894 - |
| | 1118634 - | 386009 - |
| (111) | 1115489 - | 391158 - |
| | 1126257 - | 401551 - |

- 2 -

PH-155

Mouth of Columbia River

Positions of BridgePoints

| | <u>X</u> | <u>Y</u> |
|-----------|-----------|----------|
| 202 | 1126912 | 393895 ✓ |
| 203 | 1127130 ✓ | 386580 ✓ |
| (101) 204 | 1122067 ✓ | 391887 ✓ |
| 211 | 1134199 ✓ | 400814 ✓ |
| (081) 212 | 1134994 ✓ | 393977 ✓ |
| 213 | 1134687 ✓ | 387784 ✓ |
| (091) 214 | 1130083 ✓ | 393816 ✓ |
| 221 | 1142199 ✓ | 400431 ✓ |
| 222 | 1141620 ✓ | 392492 ✓ |
| 223 | 1141475 ✓ | 386681 ✓ |
| (082) 224 | 1138363 ✓ | 387442 ✓ |
| 131 | 1101320 | 391619 ✓ |
| 132 | 1100436 ✓ | 382990 ✓ |
| 133 | 1099712 ✓ | 376122 ✓ |
| 134 | 1103114 ✓ | 375869 ✓ |
| 122 | 1108554 ✓ | 383677 ✓ |
| 123 | 1107942 ✓ | 376025 ✓ |
| 112 | 1115403 ✓ | 383621 ✓ |
| 113 | 1116019 ✓ | 377937 ✓ |
| 115 | 1111135 ✓ | 378455 ✓ |
| 102 | 1123387 ✓ | 383495 ✓ |
| 092 | 1130960 ✓ | 384681 ✓ |
| 093 | 1130620 ✓ | 378096 ✓ |
| 083 | 1137235 ✓ | 381094 ✓ |

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

MAP T. 10340

PROJECT NO. Ph-155

SCALE OF MAP 1:10,000

SCALE FACTOR None

| STATION | SOURCE OF INFORMATION (INDEX) | DATUM | LATITUDE OR y -COORDINATE LONGITUDE OR x -COORDINATE | DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS | | 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) | |
| HOLMAN, 1926 | Wash. South Pg. 216 | N.A. 1927 | 381,549.73 | 1549.73 | (3450.27) | | 472.4 | (1051.6) | |
| DO | Office | " | 1,101,395.55 | 1395.55 | (3604.45) | | 425.4 | (1098.6) | |
| Sub Station | Comp. | " | 381,496.24 | 1496.24 | (3503.76) | | 456.1 | (1067.9) | |
| TIOGA, 1926 | Wash.S. Pg.156 | " | 1,103,203.07 | 3203.07 | (1796.93) | | 976.3 | (547.7) | |
| DO | Office | " | 395,129.00 | 129.00 | (4871.00) | | 39.3 | (1484.7) | |
| Sub Station | Comp. | " | 1,102,989.37 | 2989.37 | (2010.63) | | 911.2 | (612.8) | |
| SEAVIEW | Office | " | 396,151.47 | 1151.47 | (3848.53) | | 351.0 | (1173.0) | |
| R.M. 1, 1926 | Comp. | " | 1,103,067.19 | 3067.19 | (1932.81) | | 934.9 | (589.1) | |
| DO | " | " | 385,716.06 | 716.06 | (4283.94) | | 218.3 | (1305.7) | |
| Sub Station | " | " | 1,102,122.87 | 2122.87 | (2877.13) | | 647.1 | (876.9) | |
| APEX, 1939 | Wash.S. Pg.146 | " | 385,647.63 | 647.63 | (4352.37) | | 197.4 | (1326.6) | |
| BAKER WEST BASE, 1851 | Wash.S. Pg.275 | " | 1,102,095.24 | 2095.24 | (2904.76) | | 638.6 | (885.4) | |
| LAKE, 1926 | Wash.S. Pg.216 | " | 389,574.53 | 4564.53 | (425.47) | | 1394.3 | (129.7) | |
| TURN, 1926 | Wash.S. Pg.216 | " | 1,115,299.47 | 229.47 | (4700.53) | | 91.3 | (1432.7) | |
| SOCK, 1957 | Field | " | 377,649.06 | 2649.06 | (2350.94) | | 807.4 | (716.6) | |
| | | | 1,112,714.16 | 2714.16 | (2285.84) | | 827.3 | (696.7) | |
| | | | 377,921.51 | 2921.51 | (2078.49) | | 890.5 | (633.5) | |
| | | | 1,105,471.51 | 471.51 | (4528.49) | | 143.7 | (1380.3) | |
| | | | 381,431.48 | 1431.48 | (3568.52) | | 436.3 | (1087.7) | |
| | | | 1,104,350.22 | 4350.22 | (649.78) | | 1325.9 | (198.1) | |
| | | | 46 18 50.07 | | | | 1546.0 | (306.6) | |
| | | | 124 00 11.22 | | | | 240.1 | (1043.6) | |

COMPILATION REPORT

Map Manuscript T-10340

Project Ph-155

31. Delineation:

The Kelsh Stereoscopic Instrument was used to compile the planimetry.

Photography was adequate. There were two sets of panchromatic single lens photography. The flight lines of these are close together and practically parallel. One set was taken on 6 June 1955 and these were used in the field for horizontal control identification and field inspection interpretation. The second set was taken on 24 Sept. 1955. Kelsh Plates were made of these and they were used for the compilation of planimetry. Infrared photography was taken on 18 August 1957. They were used to compile changes in planimetry which had occurred since the original photography was made, also for low-water feature interpretation and for refinement of the mean high-water line. Elsewhere in the project nine lens photography was available which was made in October 1951. These were used principally to run a radial plot at the mouth of the Columbia River and were of great help in completing a horizontal control extension for that area.

32. Control:

The identified horizontal control stations and the pass points located in the stereoplanigraph control extension were adequate for the orientation of the Kelsh models.

33. Supplemental Data:

None.

34. Contours and Drainage:

Contours are not applicable.

For the most part drainage was field inspected. Drainage not field inspected was interpreted in the compilation office assisted by reference to the Cape Disappointment, Wash. - Oreg. 7½ minute U.S.G.S. quadrangle.

35. Shoreline and Alongshore Details:

These features were adequately field inspected and no trouble was encountered during the compilation work.

Low-water lines could not be determined from the photographs along the Pacific Ocean shoreline. Foreshore areas visible at the time of photography in Willapa Bay and Baker Bay were compiled.

36. Offshore Details:

Except as stated above for foreshore areas none were visible. Nautical chart No. 6151 does not show any offshore features which exist that should be investigated.

37. Landmarks and Aids:

Form 567 is submitted for one landmark. There are no aids to navigation in the area of this manuscript.

38. Control for Future Surveys:

Seven objects were located as recoverable topographic stations. These are listed under Item 49, Notes to the Hydrographer.

39. Junctions:

Satisfactory junctions were made with T-10341 on the east, T-10345 on the south and T-10649 on the north. To the west is the Pacific Ocean.

40. Horizontal and Vertical Accuracy:

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

46. Comparison with Existing Maps:

Comparison was made with U.S.G.S. 7½ minute, Cape Disappointment, Wash. - Oreg. quadrangle, Scale 1:24,000, Published 1949.

47. Comparison with Nautical Charts:

Comparison was made with Nautical Chart No. 6151, Scale 1:60,000, 34th Edition Oct. 10, 1960, Corrected through Jan. 7th, 1961 and Nautical Chart No. 6002, Scale, 1:180,789, 10th Edition July 9, 1942, Revised May 23, 1960, Corrected through Jan. 7th, 1961.

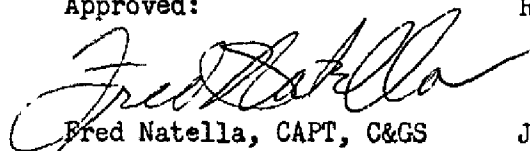
Items to be applied to nautical charts immediately.

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
C&GS

49. Notes to the Hydrographer:

Seven recoverable topographic stations were located by Kelsh Instrument methods in the area of this manuscript. They are:

| <u>Name</u> | <u>Description</u> | <u>Field Photo.No.</u> |
|-----------------------|---|------------------------|
| CHIM, 1957 | Top of chimney at south gable of high section of red-roofed house. | 55 W 8722 |
| GRAY, 1957 | West gable of "L" on south end of red-roofed gray 2-story house. | 55 W 8719 |
| DECK, 1957 | Center of sun deck on top of 3-story white house with green roof and trim. | 55 W 8722 |
| FLAG, 1957 | North gable, gray shingled house with yellow trim and short flagpole at center west side. | 55 W 8719 |
| WEST, 1957 | West gable two-story yellow house with red brick chimney on south side. | 55 W 8719 |
| TANK, 1957 | Top of elevated water tank. | 55 W 8722 |
| East Gable Barn, 1957 | East gable of barn | 55 W 8682 |

PHOTOGRAMMETRIC OFFICE REVIEW

T-

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 None
9. Plotting of sextant fixes None 10. Photogrammetric plot report ☒ 11. Detail points ☒

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ☒ 13. Low-water line ☒ 14. Rocks, shoals, etc. ☒ 15. Bridges ☒ 16. Aids to navigation None 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 ☒ 32. Public land lines None

MISCELLANEOUS

33. Geographic names ☒ 34. Junctions ☒ 35. Legibility of the manuscript ☒ 36. Discrepancy overlay None 37. Descriptive Report ☒ 38. Field inspection photographs ☒ 39. Forms ☒
40. _____
Reviewer Edward Deane
Supervisor, Review 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

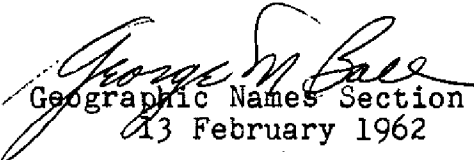
43. Remarks:

M-2623-12

48. Geographic Names:

- *Baker Bay
- Black Lake
- Clear Lake
- Holman
- Knowles Slough
- Long Beach
- Moore's Corner
- Mountain Spring Reservoir
- Parker Slough
- *Seaview
- *Shoalwater Bay
- Tarlatt Slough
- Tinker Lake
- *Wallacut River

* B.G.N. Decision


Geographic Names Section
13 February 1962

April 1945

U. S. COAST AND GEODETIC SURVEY

NAUTICAL CHART BRANCH

NON-CONTACTING LANDMARKS FOR CHARTS

TO BE CHARTED
~~DO NOT EXCEED~~

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

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. 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.

REVIEW REPORT
T-10340 through T-10351 and T-10649
Planimetric
February 21, 1962

62. Comparison with Registered Topographic Surveys:

| Survey | Scale | Date | Survey | Scale | Date |
|---------|---------|---------|--------|--------|------|
| H-240 | 836,000 | 1850 | 1341b | 10,000 | 1873 |
| 317 | 22,762 | 1850-51 | 1342a | 10,000 | 1873 |
| H-334 | 221,360 | 1852 | 1894 | 20,000 | 1889 |
| H-402 | | | 1806 | 10,000 | 1887 |
| 1123 | 10,000 | 1868 | H-1930 | 10,000 | 1889 |
| 1138 | 10,000 | 1869 | 4251 | 20,000 | 1926 |
| 1139a&b | 10,000 | 1869 | 6724ab | 10,000 | 1936 |
| 1234 | 10,000 | 1870 | 6725ab | 10,000 | 1936 |
| 1249 | 10,000 | 1870 | 6521b | 10,000 | 1936 |

The manuscripts listed in this report supersede those surveys listed above for construction of nautical charts.

63. Comparison with Maps of Other Agencies:

Comparison was made with all available maps during the photographic review. For specific details refer to the Compilation Report for each manuscript.

64. Comparison with Contemporary Hydrographic Surveys:

Hydrographic survey H-8416 (1958) covers the three most western sheets in the project T-10340, T-10344 and T-10649. Comparison between these three sheets and the hydro survey revealed no inconsistencies.

65. Comparison with Nautical Charts:

| | | | |
|------|-----------|-----------------|--------|
| 6002 | 1:180,789 | 10 Edition 1942 | 1/7/61 |
| 6151 | 1:40,000 | 34 Edition 1960 | 1/7/61 |

66. Adequacy of Results and Future Surveys:

These maps comply with instructions and meet National Standards of Map Accuracies except as detailed below.

Many offshore details such as fishtraps, lines of pile, etc. were shown on the manuscript and labeled P.D. (Position Doubtful). These features were not field inspected, being some distance offshore their accuracy may not be standard. They should be accurately positioned during hydrography.

Respectfully submitted:

A. K. Heywood
A. K. Heywood

Approved:

L. C. Lande
L. C. Lande, Chief
Review and Edit Section

Marvin D. Paulson
Chief, Nautical Chart Div.

J. E. Waugh 5/21/62
Chief, Div. of Photogrammetry

W. B. R. Bates
Chief, Coastal Surveys Div.

NAUTICAL CHARTS BRANCH

~~SURVEY NO~~ 10340

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.