<table>
<thead>
<tr>
<th>Class III Map</th>
<th>Type of Survey</th>
<th>SHORELINE (PHOTOGRAMMETRIC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No. PH-6013</td>
<td>Office No.</td>
<td>T-12007</td>
</tr>
</tbody>
</table>

**LOCALITY**

- State: ALASKA
- General locality: KNIK ARM
- Locality: CAIRN POINT

1961

**CHIEF OF PARTY**

Portland
P. A. STARK, PHOTOGRAMMETRIC OFFICE

**LIBRARY & ARCHIVES**

DATE

A SECOND EDITION OF THIS MAP IS REGISTERED
**Form C&GS-181a (12-61)**

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

**DESCRIPTIVE REPORT - DATA RECORD**
**T - 12007**

**PROJECT NO. (II):**

**FIELD OFFICE (III):**

**PHOTOGRAMMETRIC OFFICE (III):**

**PORTLAND, OREGON**

**CHIEF OF PARTY**

**OFFICER-IN-CHARGE**

**P. A. STARK**

**INSTRUCTIONS DATED (III):**

- **January 17, 1963** Supplement No. 1
- **April 1, 1964** Supplement No. 2
- **April 17, 1964** Amendment 1, Supplement 2
- **See letter dated April 14, 1964**  6320

**METHOD OF COMPILATION (III):**

**KELSH INSTRUMENT**

**MANUSCRIPT SCALE (III):**

1:10,000

**STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):**

1:10,000

**PANTOGRAPH SCALE:**

8

**DATE RECEIVED IN WASHINGTON OFFICE (IV):**

Jan. 25, 1980

**DATE REPORTED TO NAUTICAL CHART BRANCH (IV):**

Feb. 1980

**APPLIED TO CHART NO.:**

**DATE:**

**DATE REGISTERED (IV):**

June 1980

**GEOGRAPHIC DATUM (III):**

N.A. 1927

**VERTICAL DATUM (III):**

Mean Sea Level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean low water or mean lower low water

**REFERENCE STATION (III):**

LOW, 1941

**LAT.:**

81° 15' 33.101"

**LONG.:**

149° 52' 38.659"

**ADJUSTED**

**UNADJUSTED**

**PLANE COORDINATES (IV):**

**STATE:**

**ZONE:**

ALASKA

4

**Y = 2,652,219.41**

**X = 521,583.85**

**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.**

USC&GS-DC 16276A-P61
FIELD INSPECTION BY (II):

None

DATE:

MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):

By Kelsh Instrument (8/17/64 Date of photography)

No MLLW line has been compiled on this map.

DATE:

PROJECTION AND GRIDS RULED BY (IV):

A. E. Roundtree

DATE

4-17-64

PROJECTION AND GRIDS CHECKED BY (IV):

C. R. Johnson

DATE

4-17-64

CONTROL PLOTTED BY (III):

L. L. Graves

DATE

5-3-64

CONTROL CHECKED BY (III):

J. L. Harris

DATE

5-6-64

RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):

J. D. Perrow, Jr.

DATE

Feb. 1964

STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY

D. N. Williams

DATE

5-9-64

CONTOURS

None

DATE

MANUSCRIPT DELINEATED BY (III):

Drafted for Hydro Support:

C. C. Harris

DATE

5-12-64

SCRIBING BY (III):

None

DATE

PHOTOGRAHMTRIC OFFICE REVIEW BY (III):

C. C. Harris

DATE

5-12-64

REMARKS:
## Descriptive Report - Data Record

**Camera (Kind or Source) (III):** C&GS Single Lens "M"

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<thead>
<tr>
<th>Photographs (III)</th>
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<tbody>
<tr>
<td>Number</td>
</tr>
<tr>
<td>61 M 1377</td>
</tr>
<tr>
<td>61 M 1379 thru 1381</td>
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**Tide (III):**

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<th>Diurnal Range</th>
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<tbody>
<tr>
<td>Reference Station:</td>
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<td>26.7</td>
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</table>

**Subordinate Station:**

**Subordinate Station:**

**Washington Office Review by (iv):**

- **E.L. Rolle**
- **Date:** Feb. 1980

**Proof Edit by (iv):**

- **E.L. Rolle**
- **Date:** Feb. 1980

**Number of Triangulation Stations Searched for (ii):**

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<tbody>
<tr>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

**Number of BM(s) Searched for (iii):**

<table>
<thead>
<tr>
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<th>Identified</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Number of Recoverable Photo Stations Established (iii):**

- **None**

**Number of Temporary Photo Hydro Stations Established (iii):**

- **None**

**Remarks:**

---

**Form C&GS-181c**

**U.S. Department of Commerce**

**Coast and Geodetic Survey**

---

**USCOMM-DC 16276C-P61**
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORTS
T 12003 Thru T 12008, T 12015 and T 12016

This portion of Project Ph 6013 covers the Knik Arm portion of Cook Inlet, near Anchorage, Alaska from Point Woronzof Northeasterly to Goose Creek including Eagle Bay.

Eight maps T12003-T12008, T12015, T12016 were included in this portion of project Ph 6013 all are at 1:10,000 scale. The purpose of these maps were to provide contemporary Shoreline support of hydrographic operations and to aid in chart revision.

Field work prior to compilation in the 1961 field season consisted of establishing Horizontal Control.

This area was flown in August 1960 with the "W" camera in black and white and in August 1961 with the "M" Camera in black and white at 1:40,000 scale.

Bridging was performed in the Washington Office; T12015, T12016 in January 1963, and T12003-T12008 in February 1964.

The maps were compiled at the Portland office from February 1963 to May 1964.

Field edit was performed for sheets T 12015, T 12016 in August 1963 and applied in October 1963. Limited field edit was performed for T-12004, T12005, and T 12008 in July 1965 but was never applied. Manuscripts T-12003, T12006, T12007 never had any field edit performed. The field edit was considered "cancelled" because of the earthquake on March 27, 1964 affecting all of this Knik-Arm area. This area has been re-mapped as project CM-7310 KNIK-ARM, Anchorage, Alaska.

Final Review was performed at AMC in January, 1979. T 12015 and T12016 were forwarded to the Washington Science Center for final Registration. T12003-T12008 were forwarded to the Washington Science Center to be registered as CLASS III manuscripts. All pertinent data (Archive Material) will remain with Ph 6013 and the completion report will be submitted upon completion of the entire project. See letter dated March 8, 1977 in the back of this Descriptive Report.
FIELD INSPECTION REPORT

MAP MANUSCRIPT T-12007

PROJECT 21038 PH-6013

REFER TO THE FIELD INSPECTION REPORT BY ROBERT E. WILLIAMS FOR PROJECT SP-1-61, 1961, INCLUDED WITH THE DESCRIPTIVE REPORT FOR T-12507.
FIELD INSPECTION REPORT
COOK INLET, ALASKA
PROJECT SP-1-61 1961

USCGS Ship PATHFINDER
Arthur L. Wardwell, Capt., Comdg.

MANUSCRIPTS:
12049, 12046, 12045, 12040, 12031, 12032, 12026, 12027, 12028,
12020, 12021, 12022, 12017, 12015, 12016, 12014, 12013, 12003, 12007,
12006, 12003, 12004, 12005, 12002, 12001, 12000, 12012, 11999, 12011,
11998, 12010, 12009, 12019, 12018, 12023, 12025, 12024, 12029, 12030, 12035,
12034, 12033, 12037, 12036

AERIAL FIELD INSPECTION:
Areas inspected were as follows: Manuscripts No. 12049, 12046,
12045, 12040, Kenai to Boulder Point, all shoreline and alongshore features.
Balance of above listed manuscripts were used only for horizontal
control identification.

The area is primarily moderately timbered with spruce, fir, alder and
bear claw above the mean high water line. Shoreline varies from fine
black silt at the mouth of the Kenai River mouth to large fragmented
boulders at Boulder Point. Most of the beachline is sand and shingle interspersed with boulders of varying sizes. Numerous underground springs and
some small creeks discharge small quantities of silt and water and are subject to constant change.

The area was inspected by cruising alongshore by launch and by walking
the beach and bluff line. Foul areas now indicated on Chart No. 8553 are adequate. Two primary foul areas were noted as follows:
Kenai River Mouth
East Foreland to Moose Point

Quality of photographs was excellent. Areas of shadow were limited
to the shoreline east of East Foreland and upper Knik Arm. No attempt was
made to sketch in the mean high water line. Enough open areas in shadowed
areas are available to adequately delineate mean high water line.

HORIZONTAL CONTROL:
Four additional second-order triangulation stations were established
between Kenai and East Foreland to supplement existing control in the area
of hydrography. They were identified as follows:
AUDRY 1961 Manuscript No. 12049 Photo No. 1397
LOUISE 1961 " " 12049 " " 1102
BOO 1961 " " 12045 " " 1120

* Map CT-12017 Cancelled - Memo 3/8/77
Additional horizontal control recovery was made in upper Cook Inlet in accordance with project instructions. All stations were searched for and approximately 75 percent were recovered. Most of the stations not recovered are considered lost. It is recommended that the next vessel assigned to this project be given a Tellurometer. Simple traverse between recovered triangulation stations would adequately control presently un-controlled flight lines.

In many cases the listed triangulation station was not recovered and a U.S. Engineers' triangulation station was used as a substitute. It appears that the U.S. Engineers could not recover listed C&GS control and substituted their own stations.

Great assistance was rendered by the 5040 Air Transport Squadron at Elmendorf AFB in furnishing helicopter service. Three days of flying enabled personnel to cover shoreline control stations over the greater part of upper Cook Inlet.

If additional control is required in the vicinity of Elmendorf AFB, use can be made of triangulation now being observed by a C&GS geodetic party. Triangulation station DORF 1961 (in the vicinity of LOOP 2) is to be set in the roof of a building on the base. By use of the description written by the observing party, an accurate office identification can be made.

Triangulation not plotted on the Photo Index was identified where it was on photographs. This control was established by G.W.M. in 1959 and H.G.C. in 1960.

VERTICAL CONTROL:

None recovered or established.

CONTOURS AND DRAINAGE:

No contouring was attempted.

Primary drainage features are the Kenai, Matanuska, Little Susitna, Susitna, Beluga, Kustitan, and Drift Rivers. Tidal sweep keeps some of the rivers from building up deltaic features. An extremely flat foreshore on the Matanuska, Little Susitna, Susitna and Beluga rivers give rise to wide deltas that change seasonally. Many small streams discharge around Cook Inlet but have no apparent seasonal change.

WOODLAND COVER:

The major portion of the area is wooded and interspersed with muskeg and open grassy areas. These are easily identifiable on the photographs. In areas of increasing cultural activity, the woodland cover is being removed. No attempt was made to indicate these areas.

SHORELINE AND ALONGSHORE FEATURES:

The mean high water line is adequately delineated on manuscripts 12049, 12046, 12045, 12040. In the area of photo hydro signals IVY and EGG, east of East Foreland, the mean high water line is as follows:

IVY 30 meters inside MHW
EGG on piles at MHW
Most of the shoreline signals are located at MHW along the beach. Many of the fishing huts set on piles at the base of the bluff were used as signals.

No attempt was made to delineate the low water line. Hydrography in the area should be satisfactory.

The foreshore area is primarily sand, small stones and boulders. The normal gradation from stones at MHW to sand at MLW exists in all areas, except south of the Kenai River. In this area a heavy layer of silt is found in the tide zone.

OFFSHORE FEATURES:
All offshore features are located by the hydrographer.

LANDMARKS AND AIDS:
There are two fixed aids to navigation within the limits of the hydrographic project:

EAST FORELAND LIGHT
KENAI RIVER ENTRANCE RANGE
Both are located on Chart No. 8553.

One floating aid is also located on Chart No. 8553. Another can buoy is maintained by the oil company and is located just north of the pier.

One landmark for charts is recommended in the Descriptive Report for SP-1-61. This landmark is identified as follows:
KENAI TANK 1959, located by G.W.H. and identified on Photo No. 6041400.

BOUNDARIES, MONUMENTS AND LINES:
None shown.

OTHER CONTROLS:
Photo hydro signals were located in accordance with standard instructions. Signal IV was found in error and relocated photogrammetrically, then verified by hydrographic cuts. Final location is shown on manuscript 12045.

Final location of photo hydro signals will remain in their relative position with the shoreline. Final compilation will cause a datum shift which will move both hydrography and signals the same relative amount.

DATUM DIFFERENCES:
Radial plotting of photo identified control stations was made in the field. The following discrepancies were noted between plot positions and geographic positions.

<table>
<thead>
<tr>
<th>Control Station</th>
<th>Lat.</th>
<th>Long.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAST FORELAND LIGHT 1960</td>
<td>-13.8</td>
<td>-75.4</td>
</tr>
<tr>
<td>BOULDER (USE)</td>
<td>-37.0</td>
<td>-45.2</td>
</tr>
<tr>
<td>KENAI CHURCH STEEPLE 1909</td>
<td>-15.3</td>
<td>-23.6</td>
</tr>
</tbody>
</table>
CULTURAL FEATURES:

Numerous fishing shacks are located along high water line in the area of hydrography. These huts are subject to damage by winter storms and are in a constant state of transition. No attempt was made to locate current huts.

The Nikiski Oil Pier was under construction at the time of photography. The completed dimensions are available from a blueprint of the structure submitted with descriptive report for Project SP-1-61.

- Respectfully submitted,

Robert E. Williams,
Lieut. Comdr., C&GS

[Signature]
Gerald C. Saladin
LTJG, C&GS

Arthur L. Wardwell
Captain, C&GS
Comdg., Ship PATHFINDER
Cook Inlet, Alaska
21035 PH-6013
Photogrammetric Plot Report

21. **Area Covered**

This report covers the area to the west and north of Anchorage, Alaska, and includes T-Sheets 12,000 thru 12,008, plus 12,015 and 12,016.

22. **Method**

Strips #1 and #2 were bridged on the stereoplanigraph and Strip #3 was bridged on the Mann Comparator. All three strips were adjusted by IBM methods. Pass points were drilled on plates by Pug method.

Strip #1 was adjusted on two triangulation stations plus points taken from a previous bridge in the area. Triangulation station Birch (USE) 1941 and its sub-station could not be held in the adjustment. No reason could be determined as to why it could not be held and it was dropped from the bridge. Despite errors of 8 to 9 feet in control the bridge is acceptable.

Strip #2 was adjusted on three triangulation stations with tie points from Strip #3 being used on the eastern end. In no instance could any 3 or more of the stations be held with each other and the results do not meet National Map Accuracy Standards for 1:10,000 scale charting since error of up to 14' in "Y" exist in the final bridge solution.

Strip #3 was adjusted using four control points, plus two pass points from Strip #1. Accuracy of this bridge is good. Tie points between Strips #1, #2 and #3 were meaned.

23. **Adequacy of Control**

The control recovered, complied with instructions. However, in practically every case the quality of the sub-stations left much to be desired. It is felt that these poor quality images were the cause of many problems during the bridging operations. In the cases of In 8 (BLM) and L-1A (BLM), sub-stations were identified but no azimuth or exact distance was given between the home station and its sub-station. Station Misery 3, SS-1 and SS-2 were very poor image points and could not be positively identified during the bridging. Station Low could be identified on Strip #3 but could not be seen on Strip #1. Station Whitney's sub points were very poor and no positive identification could be made during bridging operations.
24. **Supplemental Data**

In the cases of Strip #1 and Strip #2 old bridging data was used to help control the adjustments.

25. **Photography**

Photography in Strips #1, #2 and #3 was adequate in coverage overlap, definition and quality.

26. **Recommendations**

If smooth sheets are required for T-Sheets 12,000, 12,001, 12,002 and 12,006, re-identification of control should be performed and new C&GS control should be provided where doubtful control exists.

Submitted by:

[Signature]

John D. Perrow, Jr.

Approved by:

[Signature]

E. H. Ramey
<table>
<thead>
<tr>
<th>PROJECT NO.</th>
<th>MAP T-1</th>
<th>SCALE OF MAP</th>
<th>1:10,000</th>
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<td>SOURCE OF INFORMATION INDEX</td>
<td>61149</td>
<td>P.4</td>
<td>1927</td>
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<tr>
<td>STATION</td>
<td>DOC, 1841</td>
<td>LOW, 1841</td>
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<tr>
<td>LATITUDE OR Y COORDINATE</td>
<td>61.15</td>
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<tr>
<td>LONGITUDE OR X COORDINATE</td>
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<td>DISTANCE FROM N.A. 1927-Datum</td>
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<tr>
<td>IN METERS (1 = 39,447.8696 Meters)</td>
<td>521.553.85</td>
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SCALE FACTOR

DATUM N.A. 1927 - DATUM LINE DISTANCE P.B. N.A. 1927 - DATUM LINE IN METERS (1 = 39,447.8696 Meters)

DATE

CHECKED BY

5-7-64

J. L. H.

COMPUTED BY

5-7-64

L. F. B.
COMPILATION REPORT

Map Manuscript T-12007

PROJECT 21035  PH-6013

ITEMS 31 THRU 38:

Refer to the Compilation Report for T-12507, bound with this Descriptive Report.

39. JUNCTIONS:

Satisfactory Junctions were made with T-12016 to the south, with T-12006 to the west, with T-12003 to the north and with T-12008 to the east.

40. HORIZONTAL AND VERTICAL ACCURACY:

Horizontal control was adequate in both density and identification. Refer to Compilation Report T-12507 bound with this Descriptive Report.

46. COMPARISON WITH EXISTING MAPS:

Comparison was made with the U.S.G.S. Anchorage (B-8) Alaska Quadrangle, scale 1:63,360, edition 1953.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Nautical Chart 8553, scale 1:194,154 at Lat. 61° 00', 5th edition, April 30, 1962.

Items to be Applied to Nautical Charts Immediately:

None.

Items to be Carried Forward:

None.

APPROVED:  

P. A. Stark  
P. A. Stark, CDR, C&GS  
PORTLAND DISTRICT OFFICER

Submitted:

James L. Harris  
CARTOGRAPHER
COMPILATION REPORT
Map Manuscript T-12507
Project PH-6013

31. **DELINEATION:**

The Kelsh stereoscopic Instrument was used for compilation without the benefit of Field Inspection.

32. **Control:**

Horizontal Control was adequate in both density and Identification.

33. **SUPPLEMENTAL DATA:**

No supplemental data was furnished for this project.

34. **CONTOURS AND DRAINAGE:**

Contours are inapplicable. The drainage was compiled without benefit of Field Inspection but with reference to existing nautical charts.

35. **SHORELINE AND ALONGSHORE DETAILS:**

Shoreline and Alongshore details were compiled without the benefit of field inspection.

36. **OFFSHORE DETAILS:**

Rocks offshore were office identified stereoscopically.

37. **LANDMARKS AND AIDS:**

None.

38. **CONTROL FOR FUTURE SURVEYS:**

None.
48. **Geographic Name List**

No geographic names sheet was furnished for this area. The only names shown on this manuscript were obtained from the U.S.G.S. quadrangle.

Cairn Point
Knik Arm
49. **Notes for the Hydrographer:**

None.
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<th>Item</th>
<th>Description</th>
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<tr>
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<td>Projection and grids</td>
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<tr>
<td>2.</td>
<td>Title</td>
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<tr>
<td>3.</td>
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<td>Recoverable horizontal stations of less than third-order accuracy (Topographic stations)</td>
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<td>7.</td>
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<tr>
<td>8.</td>
<td>Bench marks</td>
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<tr>
<td>9.</td>
<td>Plotting of sextant fixes</td>
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<tr>
<td>10.</td>
<td>Photogrammetric plot report</td>
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<tr>
<td>11.</td>
<td>Detail points</td>
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<tr>
<td>12.</td>
<td>Shoreline</td>
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<tr>
<td>13.</td>
<td>Low-water line</td>
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<tr>
<td>14.</td>
<td>Rocks, shoals, etc.</td>
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<tr>
<td>15.</td>
<td>Bridges</td>
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<td>Aids to navigation</td>
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<td>Other alongshore physical features</td>
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<td>Other alongshore cultural features</td>
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<td>Water features</td>
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<td>Natural ground cover</td>
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<td>25.</td>
<td>Spot elevations</td>
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<td>Roads</td>
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<td>Junctions</td>
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<td>Legibility of the manuscript</td>
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<td>Discrepancy overlay</td>
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<td>Descriptive report</td>
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<td>38.</td>
<td>Field inspection photographs</td>
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<td>Forms</td>
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<td>Reviewer</td>
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<td></td>
<td>C. C. Harris</td>
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<tr>
<td></td>
<td>Supervisor, review section or unit</td>
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<tr>
<td></td>
<td>L. F. Beugnet</td>
</tr>
<tr>
<td>41.</td>
<td>Remarks (See attached sheet)</td>
</tr>
</tbody>
</table>

**Field Completion Additions and Corrections to the Manuscript**

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**

**Remarks**
61. **GENERAL STATEMENT:**

   See Summary, which is page 5 of the Descriptive Report.

62. **COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:**

   Not applicable.

63. **COMPARISON WITH MAPS OF OTHER AGENCIES:**

   Not applicable.

64. **COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:**

   A comparison was made with verified copy of M-944D (1974). As expected, there is a conflict with the MHWL position since this manuscript was compiled prior to the March 1964 earthquake.

65. **COMPARISON WITH NAUTICAL CHARTS:**

   A comparison was made with Chart 16660 scale 1:194,154 19th Ed. September 10/77 and Chart 16664 scale 1:40,000 16th Ed. May 28/77. As expected the position of the MHWL differs since this map was compiled prior to the earthquake of March 1964.

66. **ADEQUACY OF RESULTS AND FUTURE SURVEYS:**

   This map complies with Project instructions, and meets the requirements for Bureau Standards and National Standards of Map Accuracy.

   Submitted by:  
   Jim Byrd

   Final Reviewer

   Approved for forwarding:  
   Chief Photogrammetric Branch, AMC

   Approved:  
   Chief Photogrammetric Branch

   Chief, Coastal Mapping Division

   Photogrammetry
March 8, 1977

TO:    Chief, Photogrammetric Branch, C342
       Rockville, Maryland
       Chief, Photogrammetric Branch, CAM52
       Norfolk, Virginia

FROM:  James Collins
       Chief, Coastal Mapping Division

SUBJECT: Job PH-6013

Cancel map T-12017. No record of original compilation, if compiled, can be found. Reassign this map to CM-7310 as a first edition.

Cancel map T-12049(2) as this area is covered by larger scale maps.

Complete the final review of maps T-12003, T-12004, T-12005, T-12006, T-12007, T-12008, T-12015, and T-12016 and forward for registration.
No chart maintenance prints required.

Retain all Archive material with remainder of the job. Job completion report to be submitted only upon completion of entire project.

cc:
C344
C3442
CAM521