

# 13146

Original

13146

|   |
|---|
| Form 504  |
| U. S. DEPARTMENT OF COMMERCE<br>COAST AND GEODETIC SURVEY |
| DESCRIPTIVE REPORT  |
| Type of Survey <u>Shoreline (Photogrammetric)</u>         |
| Field No. _____ Office No. <u>T-13146</u>                 |
| LOCALITY  |
| State <u>New Jersey</u>                                   |
| General locality <u>Barnegat Bay</u>                      |
| Locality <u>Toms River (Island Heights)</u>               |
| <u>1967</u>   |
| CHIEF OF PARTY  |
| <u>J. Bull, RADM, Director, Atlantic Marine Center</u>    |
| LIBRARY & ARCHIVES  |
| DATE _____  |

USCOMM-OC 5087

## DESCRIPTIVE REPORT - DATA RECORD

T - 13146

PROJECT NO. (II):

Job PH-6713

FIELD OFFICE (III):

Ipswich, Massachusetts

CHIEF OF PARTY

J. K. Wilson

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, Virginia

OFFICER-IN-CHARGE

J. Bull, RADM, Director, AMC

INSTRUCTIONS DATED (II) (III):

May 26, 1967 FIELD  
July 17, 1967 OFFICE  
August 10, 1967 SPECIAL (AMC-12-67)

METHOD OF COMPILATION (III):

Kelsh Stereo-Plotter

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000 pantographed to 1:10,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

May 29, 1968

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III):

~~MEAN LOW WATER~~ EXCEPT AS FOLLOWS: MHW

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):

ISLAND HEIGHTS STANDPIPE 1932 ✓

LAT.:

39° 56' 34".276 (1057.1m) ✓

LONG.:

74° 08' 49".132 (1166.4m) ✓

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y =

X =

NEW JERSEY

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

|  |                               |  |
|--|-------------------------------|--|
| FIELD INSPECTION BY (II):<br>E. W. Hartford<br>P. B. Walbolt   |                               | DATE:<br>June 28, 1967<br>July 5, 1967 |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):<br><br>Air Photo Compilation - April 25, 1967 & FIELD INSPECTION 1967  |                               |  |
| PROJECTION AND GRIDS RULED BY (IV):<br>A. E. Roundtree   |                               | DATE<br>May 5, 1967                    |
| PROJECTION AND GRIDS CHECKED BY (IV):<br>L. F. Van Scoy  |                               | DATE<br>May 10, 1967                   |
| CONTROL PLOTTED BY (III):<br>L. Neterer, Jr.<br>A. Shands  |                               | DATE<br>Aug. 7, 1967                   |
| CONTROL CHECKED BY (III):<br>A. Shands<br>L. Neterer, Jr.  |                               | DATE<br>Aug. 8, 1967                   |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):<br>R. B. Kelly   |                               | DATE<br>Aug. 2, 1967                   |
| STEREOSCOPIC INSTRUMENT COMPILATION (III):   | PLANIMETRY<br>L. Neterer, Jr. | DATE<br>Aug. 8, 1967                   |
|  | CONTOURS                      | DATE                                   |
| MANUSCRIPT DELINEATED BY (III):<br>L. Graves   |                               | DATE<br>Aug. 10, 1967                  |
| SCRIBING BY (III):<br>B. Wilson  |                               | DATE<br>Sept. 12, 1967                 |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III):<br>R. E. Smith-  |                               | DATE<br>Nov. 14, 1967                  |
| REMARKS:<br><i>Some "Field Completion Notes", on <del>an</del> ozalid &amp; film prints, were submitted by the hydrographer, G.M. Ward, during August-October 1967. See pages 20 &amp; 21 of this report.</i><br><i>W.W.S.</i> |                               |  |



## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

*Wild*  
~~USC&GS~~ Type "L"

## PHOTOGRAPHS (III)

| NUMBER                | DATE           | TIME | SCALE    | STAGE OF TIDE *                 |
|-----------------------|----------------|------|----------|---------------------------------|
| 67L-1747R & 1748R     | April 25, 1967 | 1157 | 1:30,000 | 0.57' above MLW ( <i>Diap</i> ) |
| 67L(c)-1733 & 1734    | "              | 1144 | "        | " " "                           |
| 67L(c)-1494 thru 1498 | April 21, 1967 | 0952 | 1:15,000 | 0.54' " "                       |
| 67L(c)-1477 thru 1481 | "              | 0944 | "        | " " "                           |

\* PREDICTED

TIDE (III)

|   | RATIO OF RANGES       | MEAN RANGE    | SPRING RANGE |
|---|-----------------------|---------------|--------------|
| REFERENCE STATION: SANDY HOOK, NEW JERSEY                                       |                       | 4.6           | 5.6          |
| SUBORDINATE STATION: COATES POINT (HIGHWAY BRIDGE)                              | 0.11                  | 0.5           | 0.6          |
| SUBORDINATE STATION: <i>TOM'S RIVER (town)</i>                                  | <i>0.13</i>           | <i>0.6</i>    | <i>0.7</i>   |
| Atlantic Marine Center<br>WASHINGTON OFFICE REVIEW BY (IV): <i>M. H. Slawey</i> | DATE: <i>May 1968</i> |               |              |
| PROOF EDIT BY (IV):   | DATE:                 |               |              |
| NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 1                           | RECOVERED: 1          | IDENTIFIED: 1 |              |
| NUMBER OF BM(S) SEARCHED FOR (III): 0   | RECOVERED: 0          | IDENTIFIED: 0 |              |
| NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):                         | None                  |               |              |
| NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):                     | None                  |               |              |

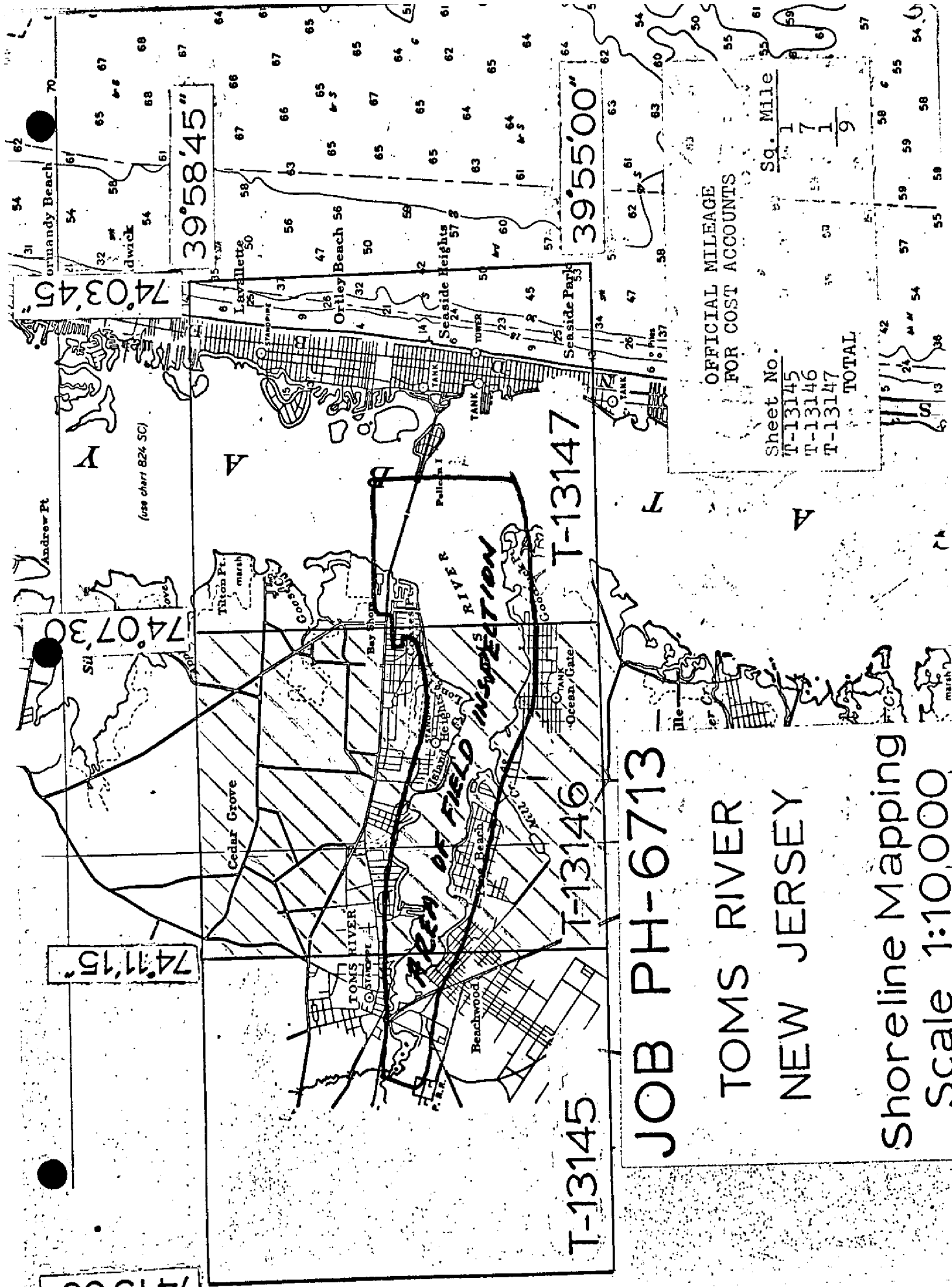
REMARKS:



T-13146

| COMPILATION RECORD                        | COMPLETION DATE | REMARKS           |
|---|-----------------|-------------------|
| Manuscript complete<br>pending Field Edit | August 1967     | Superseded        |
| Corrections made from<br>Hydro Party      | November 1967   | <i>Superseded</i> |
| <i>Final Review</i>                       | <i>May 1968</i> |                   |
|   |                 |                   |
|   |                 |                   |





T-13145

T-13146

T-13147

JOB PH-6713

TOMS RIVER  
NEW JERSEY

Shoreline Mapping  
Scale 1:10,000

OFFICIAL MILEAGE  
FOR COST ACCOUNTS

Sheet No.  
T-13145  
T-13146  
T-13147  
TOTAL

Sq. Mile

1  
7  
1  
9

5  
2  
4  
13  
36

57  
59  
58  
55

58  
59  
58  
55

57  
59  
58  
55



6.

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-13146

Shoreline manuscript T-13146 is one of three 1:10,000 scale maps in Ph-6713, Toms River, New Jersey. The sketch on page 5 of this report shows the position of this manuscript in the project.

Ph-6713 is a stereo-instrument project in advance of hydrographic surveys of the area. Compilation was by Kelsh Plotter using the same 1:30,000 diapositives, (67-L-1747 through 1749), of the April 25, 1967 infra-red photography that were used in the stereoplanograph bridge. Ratio black and white prints of the April 25, 1967, 1:30,000 scale color photographs, 67-L(c)-1735, 1736, and 1737 were used for reference in compilation, and were processed and furnished for hydrographic support. It is noted that the centers of only these processed photographs 67-L(c)-1735 through 1737 appear on the manuscript. Color ratio prints of April 21, 1967, 1:15,000 scale photographs, 67-L(c)-1477 through 1481 and 1494 through 1498 were also furnished the compiler, and proved very useful in final review.

Field work preceding compilation consisted of control identification on 1:30,000 scale color transparencies, (flight 67-L(c)-1733 through 1738), during June 1967, and field inspection in June and July of 1967 on 1:15,000 scale contact color prints 67-L(c)-1476, 1477, and 1494 through 1498.

In accordance with AMENDED INSTRUCTIONS-SPECIAL PROJECT AMC-12-67 of August 18, 1967, see pages 20 and 21 of this report, field edit was not done. The hydrographer did fully answer the compiler's questions on the Rozalid and cronaflex "Field Information Prints" during August and September 1967.

The compilation manuscript was a vinylite sheet 3 minutes and 45 seconds in latitude and longitude. The smooth manuscript was on cronaflex for registry and record after final review.

Final review was done in May 1968 at the Atlantic Marine Center.



FIELD INSPECTION REPORT  
JOB PH-6713  
MAPS T-13145, T-13146, T-13147

This report is submitted for three maps, since there are no areas requiring special treatment.

2. AREAL FIELD INSPECTION

The area lies along the North and South shores of Toms River, extending to the East across Barnegat Bay to Ortley Beach and Seaside Heights, and to the West to the Garden State Parkway.

The area of field inspection is the immediate shore line of Toms River from the mouth westward to the Garden State Parkway (Instructions dated 26 May ~~1956~~). 1967

This area is extensively developed, and is accessible by truck.

Field inspection is complete; no part being omitted or left for field edit.

Photographic quality is very good. Photographs were taken in April 1967.

Photographs used for field inspection are listed below Maps:

T-13145  
67-L-1476

T-13146  
67-L-1477  
1494  
1495  
1496  
1497

T-13147  
67-L-1492  
1493

3. HORIZONTAL CONTROL

Horizontal control recovery has been completed in accordance with project instructions.

The identification of horizontal control was accomplished during period June 22, 1967, through June 28, 1967.

The control was identified on color transparencies of 1:30,000 scale.



4. VERTICAL CONTROL

None.

5. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage is composed of small streams, and drains with a very few swamp and marsh areas.

6. WOODLAND COVER

Woodland cover was classed in accordance with the Topographic Manual.

7. SHORELINE AND ALONGSHORE FEATURES

The high-water and apparent shoreline have been indicated on the photographs by symbol.

The field inspection was accomplished by visual inspection from skiff.

The high-water line is clearly visible on the photographs by bulkheads and the change in color tone on the sand beaches, which is from a redish color to a white color, and is shown by the inspector in several places on the photographs.

Special attention is invited to a small area just West of Island Heights; this shore line has been filled for a new beach since photography. Measurements were taken at this area to the high-water line, and are shown on Photograph 67-L-1496.

8. OFFSHORE FEATURES

This phase was checked, and adequate field inspection notes were made on the photographs.

9. LANDMARKS AND AIDS

Non-floating aids to navigation were verified as to existence and correct number. These aids are identified on photograph 67-L-1492, and located in Map T-13147.

There are six private aids in Toms River; these are single pile structures about 10 feet above the water with a light at the top, and are maintained by the state. The channel is also marked by bouys. These and the lights are seasonal (June to September 1). Five aids are identified on Photographs 67-L-1476, 1477, and 1494. One was located by sextant fix, and submitted on form 274.

All landmark buildings recommended for charting are circled on the photographs.

Two landmark bluffs are noted on photographs 67-L-1496 and 1497.

Nautical landmarks outside the field inspection area were visually inspected, and are to be carried forward. Forms 567 are submitted for one deletion, and four (4) to be charted. There were no Nautical Landmarks in the area of field inspection.

10. BOUNDARIES, MONUMENTS AND LINES

Inapplicable.

11. OTHER CONTROL

None.

12. OTHER INTERIOR FEATURES

Three submerged cable shore ends were identified on the photographs: Two on photo 67-L-1476, and one on photo 67-L-1493.

13. GEOGRAPHIC NAMES

None.



page 10

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

None.

7 July 1967  
Submitted by:*E. W. Hartford*E. W. Hartford  
Chief, sub-unit, Photo Party 62

11.

PHOTOGRAMMETRIC PLOT REPORT  
Job PH-6713  
Toms River, New Jersey

August 2, 1967

21. Area Covered

The area covered extends along Toms River from the city of Toms River, New Jersey, to the city of Seaside Heights, New Jersey. Included in the area are T-sheets, T-13145 thru T-13147, all at 1:10,000 scale.

22. Method

One strip of infrared photography (67-L-1746R thru 1751R) was bridged on the C-8 stereoplanigraph to provide passpoints for B-8 compilation and ratio points for low-altitude, color photography. Five horizontal control stations were used in the IBM bridge adjustment with the companion points and one other station used as checks.

23. Adequacy of Control

The horizontal control provided complied with job instructions and was adequate in quality and quantity. All control held within National Map Accuracy Standards with the exception of ISLAND HEIGHTS STANDPIPE, 1932 "SS". This point was identified on color photography and could not be clearly identified on the infrared photography.

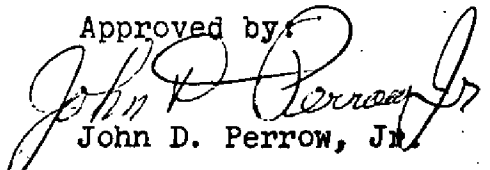
24. Supplemental Data

Local USGS quads and sea level datum were used to rough control elevation during bridging operations.

25. Photography

The infrared photography used for bridging was adequate in coverage, overlap and definition.

Approved by:

  
John D. Perrow, Jr.

Submitted by:

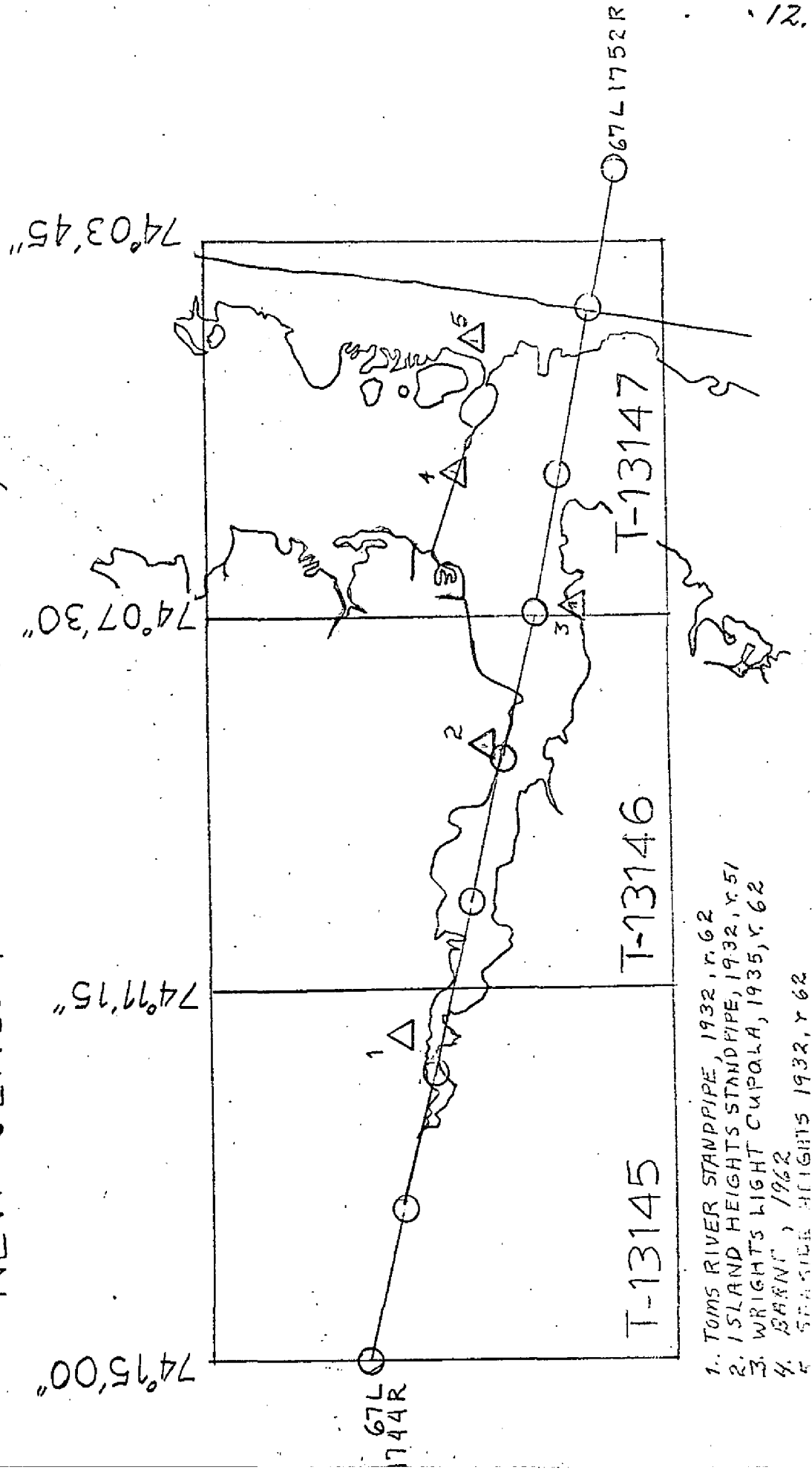
  
Robert B. Kelly



JOB PH-6713

TOMS RIVER  
NEW JERSEY

Shoreline Mapping  
Scale 1:10,000





COMPILATION REPORT  
MAP MANUSCRIPT T-13146  
PROJECT PH-6713

31. DELINEATION:

The Kelsh plotter was used.

Photography and field inspection were adequate.

32. CONTROL:

See photogrammetric plot report.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage was delineated from office interpretation of the photographs with the aid of field inspection.

35. SHORELINE AND ALONGSHORE DETAILS:

All details along the shoreline was delineated by the use of field inspection and office interpretation of the photographs. No low water line was shown.

36. OFFSHORE DETAILS:

No statement.

37. LANDMARKS AND AIDS:

Form 567 for four Landmarks and three Aids have been submitted under date of November 9, 1967.



38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Junctions are in agreement with T-13145 to the west and T-13147 to the east. There is no contemporary survey to the north or to the south.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with USGS Quadrangle TOMS RIVER, NEW JERSEY, scale 1:24,000, dated 1953.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Nautical Chart 824-SC, scale 1:40,000, fifth edition, January 1967.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None

ITEMS TO BE CARRIED FORWARD:

None

Submitted by:

*L. L. Graves*

L. L. Graves

Cartographic Technician

Approved and forwarded by:

*J. Bull*

J. Bull, RADM, USESSA

Director, Atlantic Marine Center

## PHOTOGRAMMETRIC OFFICE REVIEW

T-10363 13;46

|   |  |  |   |
|---|--|--|---|
| 1. PROJECTION AND GRIDS<br><br>RES  | 2. TITLE<br><br>RES  | 3. MANUSCRIPT NUMBERS<br><br>RES                       | 4. MANUSCRIPT SIZE<br><br>RES                     |
| CONTROL STATIONS  |  |  |   |
| 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY<br><br>RES   | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)<br><br>RES |  | 7. PHOTO HYDRO STATIONS<br><br>RES                |
| 8. BENCH MARKS<br><br>X   | 9. PLOTTING OF SEXTANT FIXES<br><br>X  | 10. PHOTOGRAMMETRIC PLOT REPORT<br><br>Bridge          | 11. DETAIL POINTS<br><br>Kelsh                    |
| ALONGSHORE AREAS (Nautical Chart Data)  |  |  |   |
| 12. SHORELINE<br><br>RES  | 13. LOW-WATER LINE<br><br>X  | 14. ROCKS, SHOALS, ETC.<br><br>RES                     | 15. BRIDGES<br><br>X                              |
| 16. AIDS TO NAVIGATION<br><br>RES   | 17. LANDMARKS<br><br>RES   | 18. OTHER ALONGSHORE PHYSICAL FEATURES<br><br>RES      | 19. OTHER ALONGSHORE CULTURAL FEATURES<br><br>RES |
| PHYSICAL FEATURES   |  |  |   |
| 20. WATER FEATURES<br><br>RES   | 21. NATURAL GROUND COVER<br><br>RES  |  | 22. PLANETABLE CONTOURS<br><br>X                  |
| 23. STEREOSCOPIC INSTRUMENT CONTOURS<br><br>X   | 24. CONTOURS IN GENERAL<br><br>X   | 25. SPOT ELEVATIONS<br><br>X                           | 26. OTHER PHYSICAL FEATURES<br><br>X              |
| CULTURAL FEATURES   |  |  |   |
| 27. ROADS<br><br>RES  | 28. BUILDINGS<br><br>RES   | 29. RAILROADS<br><br>X                                 | 30. OTHER CULTURAL FEATURES<br><br>X              |
| BOUNDARIES  |  |  |   |
| 31. BOUNDARY LINES<br><br>X   |  | 32. PUBLIC LAND LINES<br><br>X                         |   |
| MISCELLANEOUS   |  |  |   |
| 33. GEOGRAPHIC NAMES<br><br>RES   | 34. JUNCTIONS<br><br>RES   |  | 35. LEGIBILITY OF THE MANUSCRIPT<br><br>RES       |
| 36. DISCREPANCY OVERLAY<br><br>X  | 37. DESCRIPTIVE REPORT<br><br>RES  | 38. FIELD INSPECTION PHOTOGRAPHS<br><br>RES            | 39. FORMS<br><br>RES                              |
| 40. REVIEWER<br>R. E. Smith   |  | SUPERVISOR, REVIEW SECTION OR UNIT<br>A. C. Rauck, Jr. |   |
| 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<br>R. E. Smith   |  | SUPERVISOR<br>A. C. Rauck, Jr.                         |   |
| 43. REMARKS<br><br>Hydro Party corrections were made from field information Ozalid and cronaflex copy of sheet.   |  |  |   |



FORM C&GS-1002  
(9-66)U.S. DEPARTMENT OF COMMERCE  
ESSA  
COAST AND GEODETIC SURVEY

## PHOTOGRAMMETRIC OFFICE REVIEW

T-10368 13146

|   |  |  |   |
|---|--|--|---|
| 1. PROJECTION AND GRIDS<br><br>RES  | 2. TITLE<br><br>RES  | 3. MANUSCRIPT NUMBERS<br><br>RES                           | 4. MANUSCRIPT SIZE<br><br>RES                     |
| CONTROL STATIONS  |  |  |   |
| 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY<br><br>RES   | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)<br><br>RES |  | 7. PHOTO HYDRO STATIONS<br><br>RES                |
| 8. BENCH MARKS<br><br>X   | 9. PLOTTING OF SEXTANT FIXES<br><br>X  | 10. PHOTOGRAMMETRIC PLOT REPORT<br><br>Bridge              | 11. DETAIL POINTS<br><br>Kelsh                    |
| ALONGSHORE AREAS (Nautical Chart Date)  |  |  |   |
| 12. SHORELINE<br><br>RES  | 13. LOW-WATER LINE<br><br>X  | 14. ROCKS, SHOALS, ETC.<br><br>RES                         | 15. BRIDGES<br><br>X                              |
| 16. AIDS TO NAVIGATION<br><br>RES   | 17. LANDMARKS<br><br>RES   | 18. OTHER ALONGSHORE PHYSICAL FEATURES<br><br>RES          | 19. OTHER ALONGSHORE CULTURAL FEATURES<br><br>RES |
| PHYSICAL FEATURES   |  |  |   |
| 20. WATER FEATURES<br><br>RES   |  | 21. NATURAL GROUND COVER<br><br>RES                        | 22. PLANETABLE CONTOURS<br><br>X                  |
| 23. STEREOSCOPIC INSTRUMENT CONTOURS<br><br>X   | 24. CONTOURS IN GENERAL<br><br>X   | 25. SPOT ELEVATIONS<br><br>X                               | 26. OTHER PHYSICAL FEATURES<br><br>X              |
| CULTURAL FEATURES   |  |  |   |
| 27. ROADS<br><br>RES  | 28. BUILDINGS<br><br>RES   | 29. RAILROADS<br><br>X                                     | 30. OTHER CULTURAL FEATURES<br><br>X              |
| BOUNDARIES  |  |  |   |
| 31. BOUNDARY LINES<br><br>X   |  | 32. PUBLIC LAND LINES<br><br>X                             |   |
| MISCELLANEOUS   |  |  |   |
| 33. GEOGRAPHIC NAMES<br><br>RES   |  | 34. JUNCTIONS<br><br>RES                                   | 35. LEGIBILITY OF THE MANUSCRIPT<br><br>RES       |
| 36. DISCREPANCY OVERLAY<br><br>X  | 37. DESCRIPTIVE REPORT<br><br>RES  | 38. FIELD INSPECTION PHOTOGRAPHS<br><br>RES                | 39. FORMS<br><br>RES                              |
| 40. REVIEWER<br><br>R. E. Smith   |  | SUPERVISOR, REVIEW SECTION OR UNIT<br><br>A. C. Rauck, Jr. |   |
| 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<br><br>R. E. Smith   |  | SUPERVISOR<br><br>A. C. Rauck, Jr.                         |   |
| 43. REMARKS<br><br>Hydro Party corrections were made from field information Ozalid and cronaflex copy of sheet.   |  |  |   |



49. NOTES FOR THE HYDROGRAPHER

The following is a list of photo-hydro stations which are office selected:

| <u>Number</u> | <u>Description</u>    |
|---------------|-----------------------|
| 4601          | W. Corner of bulkhead |
| 4602          | Corner of bulkhead    |
| 4603          | End of pier           |
| 4604          | End of Pier           |
| 4605          | End of Pier           |
| 4606          | End of Pier           |
| 4607          | End of Pier           |
| 4608          | End of N. Jetty       |
| 4609          | Corner of bulkhead    |
| 4610          | N. Corner of Pier     |
| 4611          | End of Pier           |
| 4612          | N.W. Corner of Pier   |
| 4613          | End of Pier           |
| 4614          | N.W. Corner of Bldg.  |
| 4615          | N.W. Corner of Pier   |

Locate and submit Form 567 for Light 2, and Light 4.

There are no recoverable topographic stations.

Refer to ozalid for notes pertaining to Landmarks.

STRIKE OUT TWO

# NONLOCATING AIDS OR LANDMARKS FOR CHARTS

Atlantic Marine Center

November 8, 1967

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

The positions given have been checked after listing by

R. E. Smith

W. J. ELL. RADH. USESA

Director, ABC

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. 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

## NONFLOATING AIDS ORXYAN MARKS FOR CHARTS

STRIKE OUT TWO

November 8, 1967

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

The positions given have been checked after listing by

R. E. Smith

424 J. Bull, RADM, USN

Director, AMC

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. 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.

#### 4. TABULATE SECONDS AND METERS



UNITED STATES GOVERNMENT

U.S. DEPARTMENT OF COMMERCE  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
COAST AND GEODETIC SURVEY*Memorandum**Field Completion by hydrographer*

TO : Director  
Atlantic Marine Center

ATTN : Chief, Photogrammetric Processing Branch

FROM : Officer-In-Charge  
Hydrographic Field Party 745

DATE: 30 October 1967

In reply refer to:

SUBJECT: SP-AMC-12-67 - Investigation of Chart Deficiencies,  
Coast of New Jersey -- Additional Field Information  
for Compilation Ph-6713 - Vicinity of Toms River

*5 see page 21*

Pursuant to Ammended Instructions for SP-AMC-12-67 dated 18 August 1967, additional field information was obtained for compilation of sheets T-13145, -6, & -7 during the period August - October 1967. The majority of the work being done on 30 & 31 August 1967.

Sextant positions with check angles using triangulation or photo points were obtained for all aids not compiled in the project area. All aids and landmarks on T-13147 were additionally checked by a planetable cut from BARNE, 1962. A two-position theodelite cut was obtained as a check for the Ocean Gate Water Tank which was located by the party with two photo cuts on T-13146.

A few of the more important details remaining to be compiled were noted, however a thorough edit was in no way undertaken.

*Gerald M. Ward*  
Gerald M. Ward  
LT - USESSA

Enclosures  
As per Form 413



BUY U.S. SAVINGS BONDS REGULARLY ON THE PAYROLL SAVINGS PLAN





U.S. DEPARTMENT OF COMMERCE  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
COAST AND GEODETIC SURVEY  
Atlantic Marine Center  
439 West York Street  
Norfolk, Virginia 23510

18 August 1967

Officer in Charge  
Hydrographic Field Party 745

AMENDED INSTRUCTIONS -- SPECIAL PROJECT AMC-12-67 -- INVESTI-  
GATIONS OF CHART DEFICIENCIES -- COAST OF NEW JERSEY

1. A photogrammetrist will not be assigned to provide photo-hydro support for hydrography in Toms River.
2. Office identified points have been picked to supplement existing pass points, land marks and triangulation. Each office identified point has been numbered and a description of each point will be furnished.
3. Field edit of the Toms River manuscripts will not be required. Notes to the hydrographer listing additional information required for compilation will be furnished.
4. A strong sextant fix with check angle will be acceptable for location of the fixed aids in lieu of location by triangulation.
5. Forward field notes and Form 567s for the Toms River manuscripts to Chief, Photogrammetric Processing Branch, Atlantic Marine Center.
6. Receipt of these amended instructions shall be acknowledged.

J. Bull  
Director  
Atlantic Marine Center



REVIEW REPORT T-13146  
SHORELINE  
May, 1968

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid Comparison Print (pages 24 through 26) which shows the differences noted in Items 62 and 65 is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

T-9827 North half; 1:10,000; Oct. 1952, Kelsh; Field Edit June 1953; Final Review May, 1955.

T-9827 South half; 1:10,000; Oct. 1952, Kelsh; Field Edit June 1953; Final Review June, 1954.

The registered surveys are in good agreement with T-13146 excepting the shoreline areas changed by construction since 1955. The comparison print shows the differing details of T-9827 in blue.

The comparison print also notes some differences in the heights and elevations of "landmark" tanks:

(a) Island Heights Standpipe (triangulation station) is 125' (160') on T-13146 (by the Field Completion Print), but is 120' (150') on T-9827 North half.

(b) The tank at Lat.  $39^{\circ} 55.45'$ , Long.  $74^{\circ} 08.33'$  is 142' (149') on T-13146, and 140' (148') on T-9827<sup>S</sup>/2; there is a small shift in position for this tank on T-13146 of about 3 meters northwest of the T-9827 position.

(c) Two landmark tanks on T-13146 do not appear on T-9827; they are at: Lat.  $39^{\circ} 55.94'$ , Long.  $74^{\circ} 09.77'$ ; Lat.  $39^{\circ} 55.74'$ , Long.  $74^{\circ} 10.67'$ .

T-13146 supersedes the previously registered surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

TOMS RIVER, N.J.; U.S.G.S. quadrangle; 1:24,000; 1953

This quadrangle is a reduction of the Coast and Geodetic Survey's topographic survey T-9827 North and South halves, see Item 62. The same differences therefore exist with T-13146 except the quadrangle omits the elevation and/or height of the landmarks noted in Item 62.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A "Chart Investigation Smooth Sheet" for Special Project AMC-12-67, (see pages 20 and 21), is being prepared by Hydro Party 745, for transmittal to Washington in May 1968, which will use prints of the Final Reviewed Manuscripts of T-13146 for shoreline information.

65. COMPARISON WITH NAUTICAL CHARTS:

Chart 824S.C.; 1:40,000; 6th edition, <sup>Jan. 1968,</sup> corrected through Notice to Mariners #52 of Dec. 30, 1967.

The Comparison Print shows the chart differences with T-13146 in red. Most of the changes are from bulkheading and other construction along the river shoreline, and similar work along Mill Creek and Dillion Creek. Some displacement of details is expected in the 4x enlargement required to match T-13146, therefore the agreement seems good.

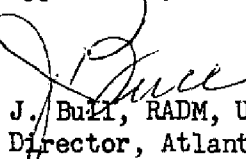
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with the project instructions, Bureau requirements, and the National Standards of Map Accuracy. No accuracy tests were run in the field.

Reviewed by:

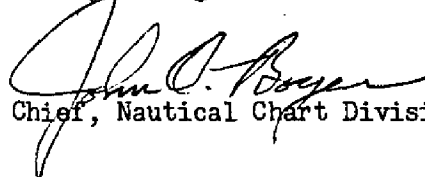
  
M. M. Slavney

Approved by:

  
J. Bull, RADM, USESSA  
Director, Atlantic Marine Center

Approved by:

  
Chief, Photogrammetric Branch JWS

  
Chief, Nautical Chart Division

  
Chief, Photogrammetry Division

JUN 27 1968

NOTES TO VERIFIER  
T-13146, Job Ph-6713

"CHART INVESTIGATION SMOOTH SHEET for Special Project AMC-12-67"

page 23,

Should be in agreement, see Item 64<sub>^</sub> of this Descriptive Report.



57'00"

y = 405,000 FT.

56'30"

Beachwood

56'00"

y = 400,000 FT.

*File note by  
F. Inspector  
and/or Hydr.*

TOMS RIVER LIGHT 4 1967  
(Privt maintd)

*T-9827 1/2*

Pine Beach

10'30"

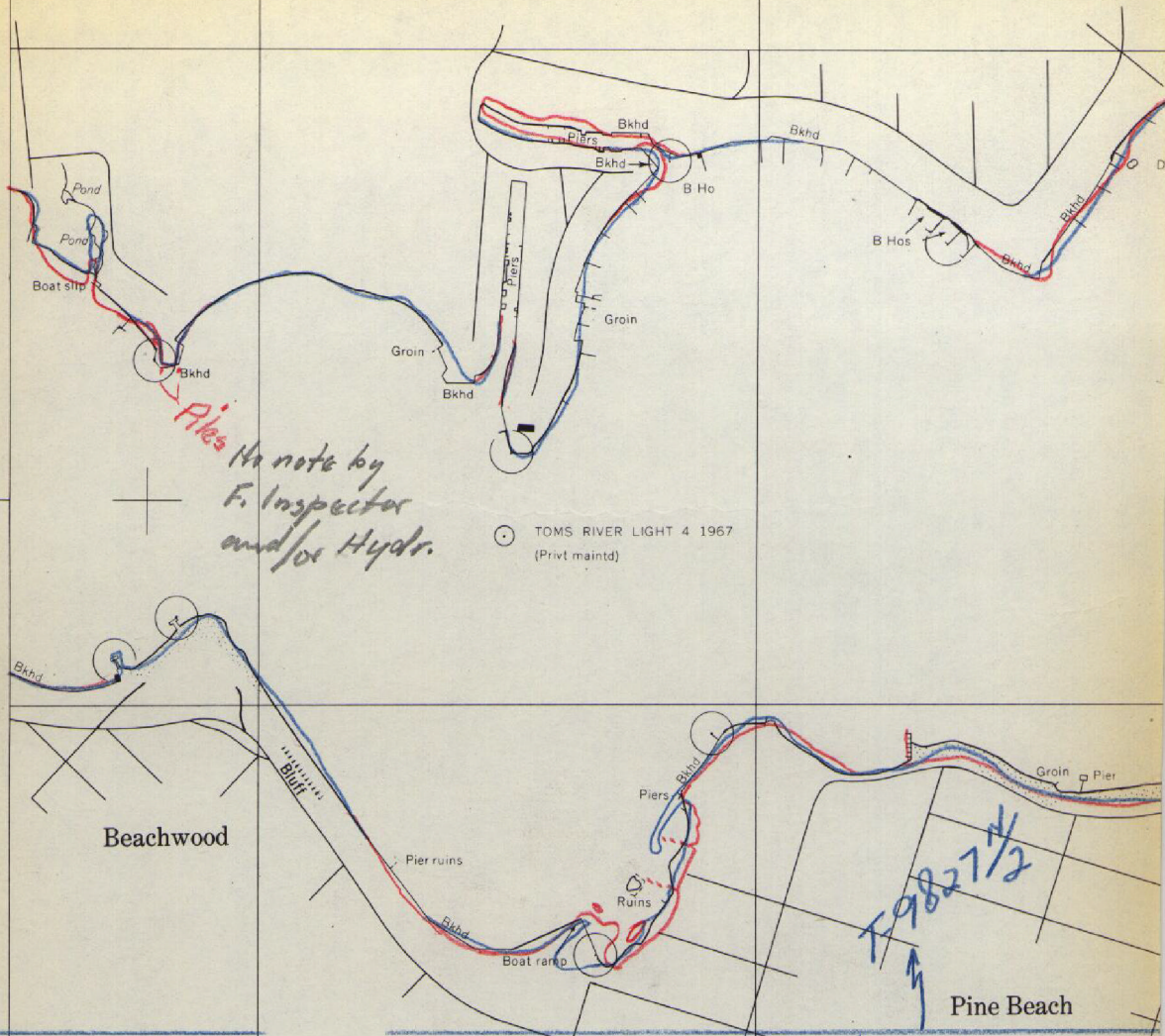
*T-9827 5/2*

*74° 11' 15"*

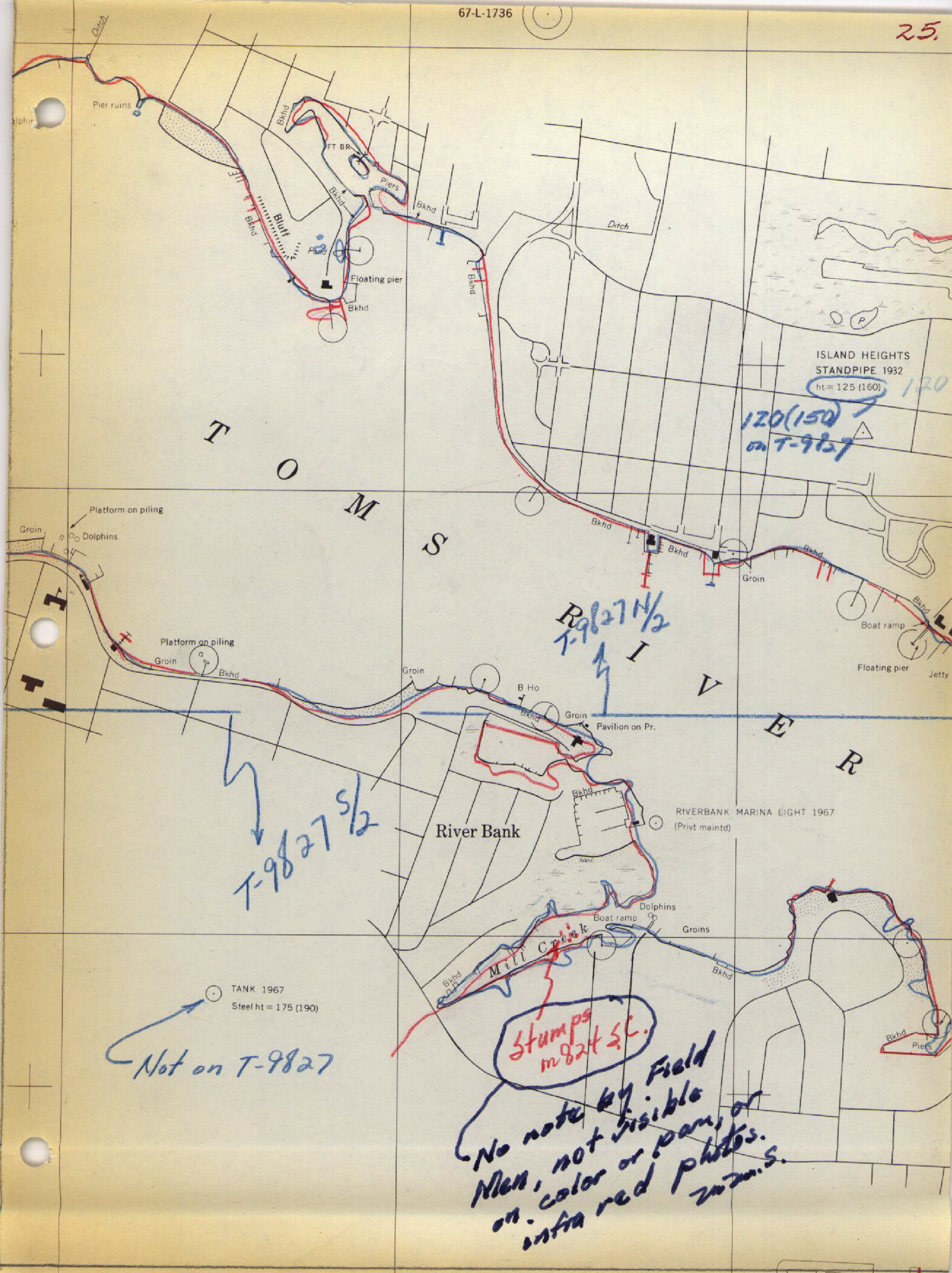
*11'*

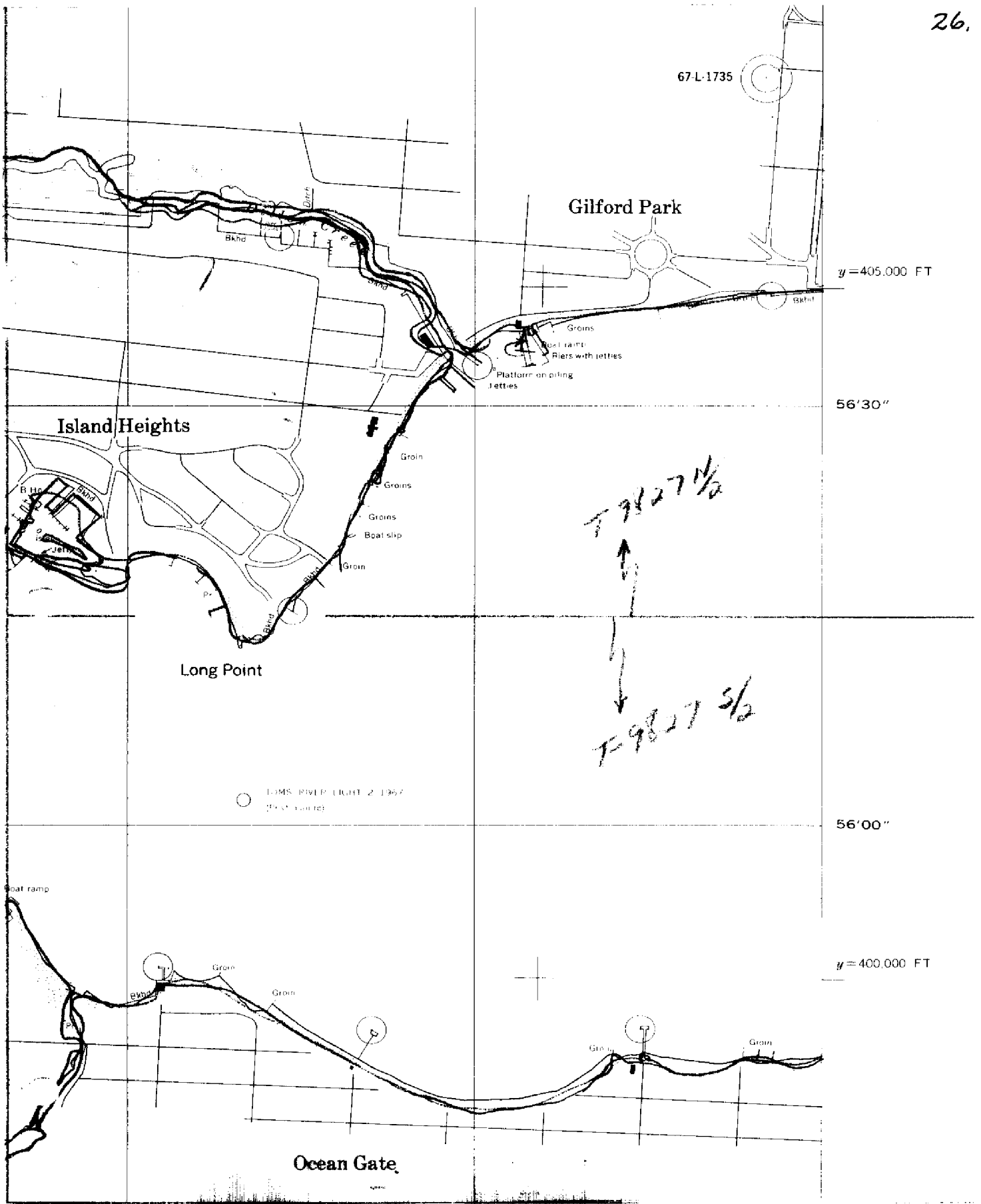
*Not on T-9827*

TANK 1967  
Steel ht = 135 (175)









○ ANA 1367  
SHE 142 (135)

[140(148)] ONT-78-7