**Descriptive Report**

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<th>Photogrammetric Shoreline</th>
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<tr>
<td>Field No. Ph-142</td>
<td>Office No. T-11429</td>
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**Locality**

- **State**: Massachusetts
- **General Locality**: Westport River
- **Locality**: Cadman Neck to Head of Westport

**Chief of Party**

- I.R. Rubottom, Chief of Party
- W.F. Deane, Balt. District Officer

**Library & Archives**

- **Date**: November 17, 1961

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**Form 504**

U.S. Department of Commerce
Coast and Geodetic Survey
Ph-142

Project No. (II): 22392

Quadrangle Name (IV):

Field Office (II): East Providence, R. I.

Chief of Party: I. R. Rubottom

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: W. F. Deane

Instructions dated (II) (III):

Instructions - Project Ph-142 (Field), 8 June 1954

Supp. 1, 15 July 1954

2, 6 Aug. 1954

3, 18 Aug. 1954

Office, 15 Sept. 1955

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6,000

(Pantograph ratio 3/5)

Scale Factor (III): 1.000

Date received in Washington Office (IV): 14 SEP 1959

Date reported to Nautical Chart Branch (IV):

Date registered (IV): 25 Aug 1960

Publication Scale (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

Reference Station (III): FORTE, 1934

Lat.: 41° 36' 38.771" (1196.1 m) Long.: 71° 04' 26.318" (609.4 m)

Adjusted

Plane Coordinates (IV):

Y = X =

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

When entering names of personnel on this record give the surname and initials, not initials only.
Areas contoured by various personnel
(Show name within area)
(II) (III)
Field Inspection by (II): M. C. Moody

Date: August 1956

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 1956, date of photography supplemented by field inspection.

Projection and Grids ruled by (IV): Austin Riley

Date: 10/1/54

Projection and Grids checked by (IV): A. Riley

Date: 10/8/54

Control plotted by (III): M. Keller

Date: Jan. 1957

Control checked by (III): R. Hartley

Date: Jan. 1957

Radial Plot or Stereoscopic Control extension by (III):

Date: 6/19/57

G E. Cook

Planimetry B. Kurs

Date: 9/25/57

Stereoscopic Instrument compilation (III):

Date:

Manuscript delineated by (III): R. E. Lindauer (scribing)

Date: 5/24/59

Photogrammetric Office Review by (III): J. W. Vonasek

Date: 10/22/58

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

Date: --
PHOTOGRAPHS (III)

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<td>56-W-385 thru 389</td>
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Tide (III)
(from predicted tables)

Reference Station: Newport, R. I.
Subordinate Station: Hix Bridge, East Branch

Date: Apr 1960

Drafting verified for reproduction by (IV):

Date: Aug 28 1960

Ratio of

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<th>Spring</th>
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Land Area (Sq. Statute Miles) (III): 27
Shoreline (More than 200 meters to opposite shore) (III): 7.3
Shoreline (Less than 200 meters to opposite shore) (III): 3.6
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 33
Number of BMs searched for (II): 3

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

Number of Recovered: 27
Identified: 15
Recovered: 3
Identified: 1

Remarks:

Massachusetts Geodetic Survey traverse stations are included in triangulation stations searched for, recovered and identified as follows:

20 searched for
16 recovered
10 identified
SUMMARY
PROJECT "H 142
TWENTY-FOUR

This project consists of 3 3/4 X 7 1/2, 1:10,000 scale shoreline maps. Three manuscripts T-11444,
T-11445 and T-11449 were compiled by the Tampa District Office. The remainder were compiled by the Baltimore
District Office.

The objective of the project was to provide shoreline and horizontal control data for contemporary
hydrographic surveys and base maps for nautical charts.

It extends from the New Bedford, Connecticut area west to Old Saybrook along Block Island Sound and
includes parts of Massachusetts, Rhode Island, and Connecticut.

Aerial photography was taken in the spring of 1954
with the "H" camera at 1:20,000 scale and supplemental
nine-lens at 1:10,000 at low water. Some additional
photography was flown in May 1956 for revision purposes.

Control was extended by stereoplaniograph and mul-
tiplex methods. Compilation was accomplished by Kelah.

More stations were identified than necessary for
this project. This was due to the fact that the
original intentions were to extend horizontal control
by radial line plot methods. Subsequent purchase of
an additional first order bridging instrument reduced
the need for the density of control. This item is the
subject of supplemental instructions dated 15 September
1955, Paragraph 5. The field phase of control identi-
fication was initiated in June 1954.

The project is classified as Shoreline yet
instructions to the field dated 8 June 1954, Paragraph
9 "Interior Inspection" states "the inland limits of
inspection and delineation are the map limits."
Five contemporary hydrographic surveys dated 1956-57 have been completed in this area by visual hydrographic methods.

All sheets were scribed and transmitted to the Washington Office by

Final Review was completed by April 1960.

Submitted by:

A. K. Aswood
2. AREAL FIELD INSPECTION

The area comprising these maps lies along both sides of the Westport River from the Atlantic Ocean to a point just south of Westport Factory.

A network of good rural and state highways serve the area which is chiefly agricultural and residential. There is a small lobster and fishing industry based at Westport.

Single lens photographs of good quality made in May 1956 were used for field inspection. Some difficulty was encountered when selecting a substitute point for horizontal control identification in open fields away from cultural detail. In such cases, boulders, low bushes, points of grass, sand spots, etc., were identified but, in many instances, identification was difficult due to loss of detail, i.e., the images of objects usually found easily on 1:10000 scale ratio prints in the past could not be found at all. Otherwise, the photography was excellent.

All swamp photographed a distinct medium dark gray tone. Because of this, limits were placed only on selected representative swamp areas leaving the remaining areas for the compiler to classify analogously. Limits were also indicated in areas where the compiler might have some doubt as to the actual limits.

Field prints of photographs 56-W-368 through -370, 56-W-384 through -388, 56-W-420 through -424 and 56-W-428 through -430 were used for field inspection.

3. HORIZONTAL CONTROL

No supplemental horizontal control was established.

In addition to existing Coast and Geodetic Survey triangulation, the following third order traverse stations of the Massachusetts Geodetic Survey were identified:

In T-11429

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<th>S2 H</th>
<th>S2 AG</th>
<th>107 D</th>
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<td>S2 AK</td>
<td>M 65B</td>
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<td>S2 AG</td>
<td>107 A</td>
<td>Dartmouth-Westport Town Bound 0</td>
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</table>
In T-11431
S2 C and S2 E

In T-11435
None

The following stations were reported lost:
In T-11429

Coast and Geodetic Survey triangulation stations:
HORSE, 1934 and WHITE SILO, 1934

Massachusetts Geodetic Survey traverse stations:
M6F and M6H

In T-11431
ELDRIDGE, 1843 CUP, 1934

In T-11435
GOSSEBERRY NECK OP NO 2, 1940

4. VERTICAL CONTROL

All tidal bench marks in the area were recovered. No other vertical control work was done.

5. CONTOURS AND DRAINAGE

Contours inapplicable.

Drainage is predominantly perennial flowing from relatively small swamps. The perennial streams are, on the whole, easily recognized stereoscopically and were indicated only in places which might present difficulty to the compiler.

6. WOODLAND COVER

Woodland cover was classified in accordance with requirements for topographic maps, reference 5433 Aa, Topographic Manual, Part II.
7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was inspected where possible by driving along the shoreline and from a skiff where it was not possible to do so while driving.

Symbolization of the mean high water line was done in accordance with Fig. 5.22, Topographic Manual, Part II.

An approximate low water line has been indicated in several areas by symbol in accordance with Fig. 5.22, Topographic Manual, Part II.

All piers and similar shoreline structures are adequately covered by the photographs.

There are no bluffs or cliffs of landmark value in the area.

There were no indications found of a submerged cable immediately south of Hix Bridge in Map T-11429 as now charted on Chart 237. A communications cable was found laid along the lower section of the bridge deck.

8. OFFSHORE FEATURES

There were no offshore features discovered during field inspection which would require a special investigation by the hydrographer.

9. LANDMARKS AND AIDS

All landmarks and aids are adequately covered by Form 567.

10. BOUNDARIES, MONUMENTS AND LINES

The Massachusetts - Rhode Island state boundary crosses the extreme western portions of Maps T-11431 and T-11435. This boundary is well monumented in Map T-11430 to the west of Map T-11431 and in Map T-11428 to the west of Map T-11429. These monuments have either a Coast and Geodetic Survey geographic position, Massachusetts Geodetic Survey plane coordinates, or, were recovered and identified during the course of field inspection of Maps T-11428 and T-11430. The boundary is not marked at its junction with the Atlantic Ocean in Map T-11435. The boundary will have to be compiled from the legal description from the the last monuments to the Atlantic Ocean across Maps T-11431 and T-11435.

The State of Massachusetts was in the process of acquiring land for Horse Neck Beach State Park at the time of field inspection. However, acquisition of land was still in progress and had not progressed far enough to permit determination of final boundaries. This park will be located in the vicinity of Horse Neck Beach and Gooseberry Neck in Maps T-11431 and T-11435.
11. OTHER CONTROL

None was established.

12. OTHER INTERIOR FEATURES

All roads were classified in accordance with reference 5441, Topographic Manual, Part II, except classes 5 and 6 were combined into one class and classified as class 5 roads.

Buildings to be compiled were circled in red ink; class 1 buildings were not indicated in any other manner; but, class 2 buildings were further identified by placing the numeral "2" alongside the red ink circle.

A school at Booth Corner presently mapped on United States Geological Survey topographic maps no longer exists. The building is now occupied a private business.

A church similarly mapped at Russells Mills no longer exists. This building is now used as a private museum.

An overhead transmission cable crossing the Westport River immediately north of Hix Bridge in Map T-11429 has a vertical clearance of 33 feet above water at 0930 EDST, 4 September 1956. This cable crossing is not shown on available copies of chart 237.

Hix Bridge, a fixed highway structure in Map T-11429, has a measured horizontal clearance of 25.3 ft. and a vertical clearance above water of 6.0 ft. at 0930 EDST, 4 September 1956.

A swing draw highway bridge in Map T-11433 has a measured horizontal clearance in both the north and south draws of 30.5 ft. and a vertical clearance above water of 5.3 ft. at 1030 EDST, 4 September 1956.

There are no airports or landing fields in the area.

13. GEOGRAPHIC NAMES

No discrepancies in geographic names were noted during field inspection.

If the State of Massachusetts completes acquisition of land and establishes the planned park and it is placed on the map, the name HORSE NECK BEACH STATE PARK will be applicable.
SPECIAL REPORTS AND SUPPLEMENTAL DATA


Data, Map T-11428, " " " Ph-142-1A, " " "
Washington 15 October 1954.

Data, Map T-11430, " " " Ph-142-2, " " "
Washington 6 August 1954.

Data, Map T-11430, " " " Ph-142-2A, " " "
Washington 19 October 1954.

Data, Map T-11434, " " " Ph-142-5, " " "
Washington 6 August 1954.

Data, Map T-11434 " " " Ph-142-5A, " " "
Washington 19 October 1954.


Submitted:

I. Y. Fitzgerald
Photogrammetric Engineer

Approved:

I. R. Rubottom
Chief of Party
# Lambert Grid Mainland Zone (Mass.)

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<th>SOURCE OF INFORMATION</th>
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<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
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DATE: January 1957
CHECKED BY: J. Hartley
DATE: January 1957
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COMPUTED BY: M. Keller  DATE: January 1957  CHECKED BY: R. Hartley  DATE: January 1957
Photogrammetric Plot Report
Project 27300
Block Island Sound, R. I. to Westport River, Mass.

21. Area covered. - Sheets T-11\(\frac{1}{4}\)29 thru T-11\(\frac{1}{4}\)31, T-11\(\frac{1}{4}\)34 and T-11\(\frac{1}{4}\)35 covered in this report.

22. Method. - Since most of the models in the area of these surveys can be set on existing control only one bridge was necessary. Model 56W-364-385 was set to leave pass points to control the center of the bridge. Photos 56W-369 thru 374 were bridged.

23. Adequacy of control. - Control was adequate. In the adjustment of the bridge it was observed that station Fish, 193\(\frac{1}{2}\), should be held with some caution. All stations were plotted on Massachusetts mainland (Lambert) grid.

24. Supplemental data. - None

25. Photography. - Photo coverage was good except in the southeast area of T-11\(\frac{1}{4}\)29 where side lap between flights is at a minimum. Photo coverage and control are adequate for graphic compilation of sheet T-11\(\frac{1}{4}\)35.

26. Bridge points. - All image points determined in the stereoplanigraph bridge are indicated by a blue ink number on the field ratio prints with a description on the back of the photograph. These points are also plotted on the manuscript bases and shown by a red circle and number.

C.E. Cook
19 June 1957
C. E. Cook

Approved

M. Keller
Photogrammetric Plot Report:
In addition to the attached report refer also to the descriptive report for survey T-11431.

In the NE corner, the stereoplanigraph bridge was extended with the Multiplex thru model 367-368 to furnish pass points for model 388-389.

31. **DELINEATION**

The Kelsh plotter was used for delineation on vinylite projection. The multiplex was used in model 367-368.

The Photogrammetric Office review corrections were made on a cronaflex copy of the penciled worksheet.

32. **CONTROL**

Horizontal control was adequate. Vertical control is inapplicable.

In the vicinity of station FISH, 1931 the stereoplanigraph pass points were held. Station FISH was difficult to see in the model and did not influence the delineation of detail.

At station 107D MGS 1936, the sub. pt. was not held in the multiplex bridge. The positions of details in relation to the three stations in the immediate area are in agreement with the descriptions, indicating an error in the sub. pt.

33. **SUPPLEMENTAL DATA**

Final name standard dated 12/15/54 and Chart 237 were used for geographic names.

34. **CONTOURS AND DRAINAGE**

Drainage is complete. Contours are inapplicable.

35. **SHORELINE AND ALONGSHORE DETAILS**

All alongshore details are from field inspection which was adequate. No low water lines are shown.

36. **OFFSHORE DETAILS**

None.

37. **LANDMARKS AND AIDS**

Form 567 was submitted for two landmarks to be charted.
38. **CONTROL FOR FUTURE SURVEYS**

None.

39. **JUNCTIONS**

Junctions have been made as follows:
- to the north with T-10493 (Ph-163)
- to the east - no contemporary survey
- to the south with T-11431
- to the west with T-11428

40. **HORIZONTAL AND VERTICAL ACCURACY**

No comments.

41. **BRIDGE AND CABLE CLEARANCE**

The following are the clearances of Hix Bridge furnished by the field party as compared with the bridge book data:

<table>
<thead>
<tr>
<th></th>
<th>Horizontal</th>
<th>Vertical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineers</td>
<td>31, 35, 27</td>
<td>6.6</td>
</tr>
<tr>
<td>Field</td>
<td>25.3</td>
<td>9.8</td>
</tr>
</tbody>
</table>

The clearance of the overhead cable at Hix Bridge was computed to 34.1 feet at MHW.

42 - 45

Inapplicable.

46. **COMPARISON WITH EXISTING MAPS**


Bureau surveys as follows:
- T-5602 (1936) scale 1:10,000
- T-5603 (1936) " "
- T-5604 (1936) " "

47 - 49

Inapplicable.
47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 237, scale 1:20,000, edition of April 1937, corrected to 6/6/55.

Items to be applied to nautical charts immediately: None.
Items to be carried forward: None.

Respectfully submitted
22 October 1953

Joseph W. Vonasek
Carto. (Photo.)

Approved and forwarded

William F. Deane
CDR, C&GS
Baltimore District Officer
PHOTOGRAMMETRIC OFFICE REVIEW
T. 11429

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 ✔ 8. Bench marks ✔

ALONGSHORE AREAS
(Nautical Chart Data)
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 alongshore cultural features ✔

PHYSICAL FEATURES
26. Other physical features ✔

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines ✔ 32. Public land lines

MISCELLANEOUS
33. Geographic names ✔ 34. Junctions ✔ 35. Legibility of the manuscript ✔
39. Forms ✔

Reviewer: [Signature]
Supervisor, Review Section or Unit: [Signature]

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: [Signature]
Supervisor: [Signature]

43. Remarks:
48. GEOGRAPHIC NAMES LIST

Adamsville Road
Allen Creek
Angeline Brook

Beeden Road
Booth Corner

Cadman Cove
Cadman Neck
Camp Noguchoke
Cedar Dell Lake
Central Village
Coleman Hill Creek
Cornell Point

Dartmouth
Dearfield Swamp
Destruction Brook
Devoll Pond
Division Road
Doctors POINT
Drift Road

Everett Cove

Gidleys Corner

Handy Four Corners
Head of Westport
Hix Bridge
Hix Bridge Road
Horse Neck Road
Huddleston Point

Jessies Neck

Kirby Brook
Kirby Corner

Maconbers Corner

Massachusetts

New Pine Hill Road

Old County Road
Old Pine Hill Road
Old Westport Road
*Faskamanset River
Peter Point
Russells Mills Road

Sissons Corner
Slades Corner
Slades Corner Road
*Slocums River
Shell Corner
Shell Creek
South Westport

The Narrows

*Westport River—East Branch
Widows Point
Woodcock Road
Woods Corner

*B.G.N. Decision

GEOGRAPHIC NAME SECTION
29 MARCH 1960
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

<table>
<thead>
<tr>
<th>STATE</th>
<th>MASSACHUSETTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHURCH</td>
<td></td>
</tr>
<tr>
<td>SPIRE</td>
<td></td>
</tr>
<tr>
<td>CUPOLA</td>
<td></td>
</tr>
<tr>
<td>ON BARN</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD OF LOCATION AND SURVEY No.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHURCH</td>
<td>Wooden, white, hte=85 (105)</td>
<td></td>
<td>41 37</td>
<td>71 03</td>
<td>PHOTO</td>
<td>1927</td>
<td>237</td>
</tr>
<tr>
<td>SPIRE</td>
<td>Small tin, in center of barn hte=</td>
<td></td>
<td>31 25</td>
<td>71 04</td>
<td>T-11429</td>
<td>1934</td>
<td>237</td>
</tr>
<tr>
<td>CUPOLA</td>
<td>Tin Cupola, 1931</td>
<td></td>
<td>41 35</td>
<td>1017 14</td>
<td>T-11429</td>
<td>1934</td>
<td>237</td>
</tr>
</tbody>
</table>

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-11429
Shoreline
March 2, 1960

62. Comparison with Registered Topographic Surveys

| 183 bis | 1:10,000 | 1844 |
| 2217   | 1:10,000 | 1895-96 |
| 5602   | 1:10,000 | 1934 |
| 5603   | 1:10,000 | 1934 |
| 6119) Graphic |  |  |
| 6120) Control 1:10,000 |  | 1934 |

The above surveys are to be superseded by this manuscript for new construction of nautical charts.

63. Comparison with Maps of Other Agencies


64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

237 1:20,000 Ed. 4/26/37 6/23/58

Three rocks awash midway between Everett Cove and Westport shown on the chart do not appear on this manuscript. An investigation of the latest photography taken in 1956 at 1.3' above MLW reveals no trace of these rocks.

66. Adequacy of Results and Future Surveys

This map complies with instructions and meets the standards for National Map Accuracy.

Reviewed by

A. K. Heywood
Approved

L. C. Lande
Chief, Review and Edit

F. F. Woodcock
Asst. Chief, Photogrammetry
Division

G. S. Mast
Chief, Coastal Surveys
Division
Asst. Chief, Operations Division
# Nautical Charts Branch

**Survey No. T-11429**

## Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>Chart</th>
<th>Cartographer</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-12-41</td>
<td>237</td>
<td>Dr. August</td>
<td>Fully compiled Before After Verification and Review</td>
</tr>
</tbody>
</table>

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

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.