# Descriptive Report

**Type of Survey**  
Planimetric

**Field No.**  
Ph-163
**Office No.**  
T-10490

**Locality**

**State**  
Rhode Island

**General locality**  
Narragansett Bay

**Locality**  
Bristol Harbor

**1956-57**

**Chief of Party**  
I.R. Rubottom, Chief of Field Party  
W.P. Deane, Balto. District Officer

**Library & Archives**

**Date**  
February 26, 1968
Ph-163

Project No. (II):  
Quadrangle Name (IV):  

Field Office (II):  East Providence, R. I.  
Chief of Party:  Ira R. Rubottom  

Photogrammetric Office (III):  Baltimore, Md.  
Officer-in-Charge:  William F. Deane  

Instructions dated (II) (III):  
(II) 9 April 1956  
13 March 1957  

Copy filed in Division of Photogrammetry (IV)  

Method of Compilation (III):  
schoodiner - Kelsh Plotter  

Manuscript Scale (III):  1:10,000  
Stereoscopic Plotting Instrument Scale (III):  1:6000  
(Pantograph ratio 3/5)  

Scale Factor (III):  1.000  

Date received in Washington Office (IV):  
Date reported to Nautical Chart Branch (IV):  

Applied to Chart No.  
Date:  
Date registered (IV):  

Publication Scale (IV):  
Publication date (IV):  

Geographic Datum (III):  N.A. 1927  

Vertical Datum (III):  
Elevations shown as (25) refer to mean high water  
Elevations shown as (g) refer to sounding datum  
I.e., mean low water or mean lower low water  

Reference Station (III):  HOG ISLAND 3, 1874  

Lat.: 41° 38' 39.930" (1231.9 m)  
Long.:  71° 16' 50.930" (1178.6 m)  
Adjusted  

Plane Coordinates (IV):  State: Rhode Island  
Zone:  --  

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): Mathew A. Stewart
Leo F. Beugnet

Date: May - October 1956

Planetable contouring by (II):

Completion Surveys by (II): *See below*

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): Joan Chaconas

Date: 8 March 1957

Projection and Grids checked by (IV): H. D. Wolfe

Date: 8 March 1957

Control plotted by (III): A. K. Heywood

Date: 25 March 1957

Control checked by (III): S. G. Blankenbaker

Date: 26 March 1957

Radial Plot or Stereoscopic Control extension by (III):

E. L. Rolle

Date: 18 Oct. 1957

Stereoscopic Instrument compilation (III): Shoreline: A. K. Heywood

Planimetry: J. C. Cregan

J. C. Richter

Date: 1 April 1957

26 Jan. 1959

Manuscript delineated by (III): C. A. Lipscomb (scribed)

Date: 8 Oct. 1959

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

Date: 21 April 1959

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

* Field Edit

Limited Field Edit was accomplished date 1956-57 in conjunction with contemporary hydrographic surveys. Refer to the final review report. No discrepancy prints were submitted.
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time (EST)</th>
<th>Scale</th>
<th>Stage of Tide</th>
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</thead>
<tbody>
<tr>
<td>56-W-224 thru 227</td>
<td>1 May 1956</td>
<td>0919</td>
<td>1:30,000</td>
<td>2.0' above MLW</td>
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<tr>
<td>56-W-242 thru 245</td>
<td></td>
<td>0931</td>
<td></td>
<td>2.5'</td>
</tr>
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</table>

Tide (III)
(from predicted tables)

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3.5</td>
<td>4.4</td>
</tr>
<tr>
<td></td>
<td>4.1</td>
<td>5.1</td>
</tr>
</tbody>
</table>

Reference Station: Newport, R. I.
Subordinate Station: Bristol

Washington Office Review by (IV): S. G. Blankenbaker

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 5.5 sq. mi.
Shoreline (More than 200 meters to opposite shore) (III): 17.2 mile
Shoreline (Less than 200 meters to opposite shore) (III): 0.5 mile
Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 18
Recovered: 13
Identified: 7

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

Two (2) third-order triangulation stations established.

All bench marks searched for are Tidal Bench Marks.
Summary to Accompany Descriptive Report
T-10490

T-10490 is one of 30 planimetric maps comprising project PH-163. The project covers the Narragansett Bay, Rhode Island-Massachusetts, area.

The project area was field inspected. Deficiencies in alongshore rock information are discussed in the final review report and in the addendum to this Summary.

Limited field edit of this map was accomplished by contemporary hydrographic survey parties.

The project area was bridged by multiplex. T-10490 was compiled by Kelsh plotter.

A cronaflex copy of the map will be registered.
ADDENDUM TO SUMMARIES TO ACCOMPANY
JOB PH-163 MAPS T-10472 through T-10501
(ACCURACY AND FUTURE SURVEYS)

Most of the project maps were used in contemporary hydro-
graphic survey operations. Four hydrographic surveys
accomplished in the period of time between 1943 and 1955
cover the project area outside the areas of contemporary
surveys.

The contemporary hydrographic surveys have been registered.
With one exception they are classified "basic". Survey
H-8367 is classified as "basic for charting only".

Considerable difficulty was experienced during smooth
plotting and verification of some hydrographic surveys in
using signals located by plane table methods. Many of the
objects were identified on field photographs by the plane
table party. Field identification of these objects was
re-examined in the Baltimore Office, Compilation Unit.
Some of the objects were relocated photogrammetrically and
this revised information was furnished for use in smooth
plotting.

The Norfolk Processing Office Addendum to Accompany Survey
H-8316 mentions difficulties experienced when plotting sextant
angles locating piles, piers, shoreline changes, etc. --
they were seldom in agreement with photogrammetric manuscript
positions. The Washington office verifier was unable to
adjust the subject information using the available hydrographic
data. To assist in resolving the discrepancies, the Photo-
grammetry Division (Washington Office Review Group) rechecked
signal locations on Maps T-10472, T-10473, T-10475 and T-10476.
Fifty-seven signal locations and random portions of shoreline
were revised by graphic methods using available field photo-
graphs that included field identified primary control and
signals. This additional work is subject to error due to
the condition of the photographs and the more limited use
of project control; many discrepancies between the surveys,
however, were resolved by using the revised information.
No requests for similar rechecks were made by verifiers of
other hydrographic surveys.

In part, the problems encountered in survey H-8316 (and H-8394)
during hydrography and by verifiers can be attributed to the
enlargement of these photogrammetric maps from 1:10,000 to
1:5,000 scale for use in hydro support. Similar problems on
other hydrographic surveys were attributed, in part, to incorrect transfer of signals, substandard plotting and use of weak sextant fixes.

Control for project bridging (multiplex) was classified "over abundant" (150 stations). While 25% of the stations were "difficult to see", only two stations were not held. Pass points between strips were averaged-adjustment less than 0.5 mm.

In addition to the previously mentioned supplemental work (relocation of signals and shoreline), two stereoplanigraph models were set to test horizontal map accuracy. The models covered parts of maps T-10472 and T-10473. A datum difference was found to exist between Bureau control and MGS and USGS control. Adjustment of these difference produced no appreciable shift in map details.

Rock information mapped on some of the photogrammetric surveys was incomplete as the result of poor photography inadequately supplemented by field inspection. The hydrographer located many rocks missed on the photogrammetric survey; and, in addition, the hydrographic survey reviewers found it necessary to bring forward considerable rock information without the benefit of verification by either the photogrammetric surveys or the contemporary hydrographic surveys.

These surveys have been used, in part, for nautical charting through both direct application of details and indirectly through contemporary hydrographic surveys. As previously mentioned, all but one of the contemporary hydrographic surveys have been registered as "basic surveys". Registration of these maps is recommended. Future use of the maps for hydro support purposes is not recommended due to the previously discussed problems that were encountered. Re-bridging by analytic aerotriangulation and new mapping with new color and infrared photography is recommended.

S. G. Blankenshaw

NOTE: POLITICAL BOUNDARIES—With the exception of the Mass.-Rhode Island State Line, none of the numerous mapped political boundaries are shown on modern charts. In consideration of the loss of some field photographs, and requests by photogrammetric office reviewers for field verification of boundaries, it is recommended that the project maps not be considered sources for political boundaries (with the exception of the state line). See
FIELD INSPECTION REPORT
Project 25120
Map T-10490

Please refer to the Field Inspection Report for Map T-10480 for all data pertaining to this map.

Leo F. Beugnet
Cartographic Survey Aid

Approved:

Ira R. Hubottom
Chief of Party

FIELD INSPECTION PHOTOGRAPHS
56W 225, 226, 227, 242, 243, 244, 245
54W 1194, 1195, 1196, 1197

PHOTOGRAPHS 54W 1145, 1194, 1195 WERE MISSING AT THE TIME OF FINAL REVIEW. APPARENTLY LOST.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>LONGITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARDS</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS BACKWAYS</th>
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<tbody>
<tr>
<td>LAND, 1996</td>
<td>GP p.168</td>
<td>N.A. 1927</td>
<td>41 38</td>
<td>19.134</td>
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<td>1260.8</td>
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<td>BRISTOL SOLDIERS HOME, 1934</td>
<td>GP p.168</td>
<td>N.A. 1927</td>
<td>41 41</td>
<td>09.647</td>
<td>297.6</td>
<td>1553.5</td>
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<td>POP, 1913</td>
<td>p. 143</td>
<td>N.A. 1927</td>
<td>41 38</td>
<td>58.583</td>
<td>1807.3</td>
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<td>HOG ISLAND SHOAL LIGHT HOUSE, 1913</td>
<td>p. 143</td>
<td>N.A. 1927</td>
<td>41 37</td>
<td>56.082</td>
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<td>120.9</td>
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<td>BRISTOL FERRY L.H., 1897</td>
<td>p. 142</td>
<td>N.A. 1927</td>
<td>41 38</td>
<td>33.890</td>
<td>1015.5</td>
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<td>BRISTOL COURTHOUSE, 1843</td>
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<td>12.117</td>
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<td>p. 67</td>
<td>N.A. 1927</td>
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<td>22.055</td>
<td>680.4</td>
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<td>MOUNT HOPE BRIDGE NORTH TOWER 1932</td>
<td>p. 63</td>
<td>N.A. 1927</td>
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<td>BRISTOL BLACK TANK, 1932</td>
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<td>MOUNT HOPE BRIDGE SOUTH TOWER, 1932</td>
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1 FT = 0.3048008 METER

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<th>STATION</th>
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<th>LATITUDE OR y-COORDINATE</th>
<th>LONGITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>SQUASH, 1913</td>
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<td>N.A. 1927</td>
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<td>PERIOD (FORWARD) (BACK)</td>
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<td>WEST, 1861</td>
<td>p. 98</td>
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<td>41 18</td>
<td>24.099</td>
<td>557.5</td>
<td>830.5</td>
<td>PERIOD (FORWARD) (BACK)</td>
<td>PERIOD (FORWARD) (BACK)</td>
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<tr>
<td>HOG ISLAND 3, 1874</td>
<td>p. 143</td>
<td></td>
<td>41 15</td>
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<td>413.8</td>
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<td>PERIOD (FORWARD) (BACK)</td>
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<td>CASTLE ISLAND LIGHT, 1956</td>
<td>p. 169</td>
<td></td>
<td>41 17</td>
<td>13.426</td>
<td>1414.2</td>
<td>1436.9</td>
<td>PERIOD (FORWARD) (BACK)</td>
<td>PERIOD (FORWARD) (BACK)</td>
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<tr>
<td>Sub. Pt. SQUASH</td>
<td>Comp.</td>
<td></td>
<td>41 18</td>
<td>12.252</td>
<td>283.5</td>
<td>1101.8</td>
<td>PERIOD (FORWARD) (BACK)</td>
<td>PERIOD (FORWARD) (BACK)</td>
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</tbody>
</table>
COMPILATION REPORT
Ph-163
T-10490

The photogrammetric plot report for this survey is part of the descriptive report for Survey T-10472.

31. **DELINEATION**

The Kelsh plotter was used for delineation.

32. **CONTROL**

Horizontal control was adequate. Vertical control is inapplicable.

33. **SUPPLEMENTAL DATA**

Final name standard dated 5 March 1957.

Planetable Sheet Ph-1-F-56.

34. **CONTOURS AND DRAINAGE**

Drainage is complete. Contours are inapplicable.

35. **SHORELINE AND ALONGSHORE DETAILS**

All shoreline detail is from field inspection which was thorough.

36. **OFFSHORE DETAIL**

Refer to paragraph 8 of the field report. Two named submerged features could not be delineated.

A sextant fix at Usher Rocks is recorded on the back of Photograph 56-X-226.

37. **LANDMARKS AND AIDS**

Forms 567 have been submitted for seven landmarks and four aids to navigation.
38. CONTROL FOR FUTURE SURVEY

Thirty-four Photo-hydro stations fall within the limits of this manuscript and are located on Planetable Sheet No. Ph-1-F-56. Refer to the Descriptive Report to Accompany Graphic Control Survey Sheets Ph-1-A-56 thru Ph-1-N-56 submitted for this project.

Refer also to letter 71/1 rab dated 7 August 1953, subject: "Smooth Sheet H-8395, Project GS-13870 (PH-163) Narragansett Bay" copy of which is attached to report for T-10489.

No points other than those mentioned in item 37 were located.

39. JUNCTIONS

Junctions have been made as follows:
To the north with T-10483
To the east with T-10491
To the south with T-10497
To the west with T-10489

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. BRIDGE CLEARANCES

The following clearances were furnished:

Mount Hope Bridge, horizontal clearance 1156 feet, vertical clearance 135 feet MHHW.

Bridge at Mill Cut, horizontal clearance 39.5 feet, vertical clearance 8 feet MHHW.

42. BOUNDARIES

The Bristol County - Newport County Boundary was transferred from the U.S.G.S. quadrangle.

43 - 45 Inapplicable.

46. COMPARISON WITH EXISTING MAPS


Bureau Surveys T-5749(1944) and T-5750(1944), scale 1:20,000, date of issue 1949.
47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 278, scale 1:20,000, published November 11, 1946, revised 8/25/58.

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

Respectfully submitted
26 January 1959

John C. Richter
Carto. (Photo.)

Approved and Forwarded

William F. Deane
CDR, C&GS
Baltimore District Officer
PHOTOMGRAMMETRIC OFFICE REVIEW

T. 10490

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  
8. Bench marks  
9. Plotting of sextant fixes  
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  
17. Landmarks  
18. Other alongshore physical features  
19. Other alongshore cultural features

PHYSICAL FEATURES

20. Water features  
21. Natural ground cover  
22. Planetary contours  
23. Stereoscopic instrument contours  
24. Contours in general  
25. Spot elevations  
26. Other physical features

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines  
32. Public land lines

MISCELLANEOUS

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

Reviewer

Supervisor, Review Section or Unit

40. 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.

S.G. Blankenship

Compiler

Supervisor

Dec. 1966

43. Remarks:
61. General Statement

This survey has been used for hydrographic survey support purposes (H-8314, H-8395, and H-8396). Corrections applied to photogrammetric survey detail during hydrography and/or verification of the hydrographic surveys were applied to T-10490 during this review.

No discrepancies exist between the surveys. T-10490 is deficient in alongshore rock information—refer to side heading 66.

During review of the hydrographic surveys, thorough evaluations were made of prior Bureau topographic information (registered surveys). For this reason comparison with prior surveys during the review of T-10490 was limited to the surveys accounted for in subsequent sections of this report.

62. Comparison with Registered Topographic Surveys

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-5749</td>
<td>1:20,000</td>
<td>1944</td>
</tr>
<tr>
<td>T-5750</td>
<td>1:20,000</td>
<td>1944</td>
</tr>
</tbody>
</table>

A few alongshore rocks were carried forward from the prior topographic surveys to H-8396, dated 1956. Except for these details, T-10490 supersedes the prior surveys for nautical charting purposes in the common area.

63. Comparison with Maps of Other Agencies

USGS quad Bristol 1:24,000 1955

No significant differences were noted.

64. Comparison with Contemporary Hydrographic Surveys

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-8314</td>
<td>1:10,000</td>
<td>1956</td>
</tr>
<tr>
<td>H-8395</td>
<td>1:10,000</td>
<td>1957</td>
</tr>
<tr>
<td>H-8396</td>
<td>1:10,000</td>
<td>1957</td>
</tr>
</tbody>
</table>

These surveys have been accepted as basic surveys. Refer to side headings 61 and 66 of this report concerning application of T-10490 to the hydrographic surveys.
65. **Comparison with Nautical Charts**

278  1:20,000  11/9/64

The chart contains some topography from more recent sources. No significant differences were noted.

66. **Adequacy of Results and Future Surveys**

Project photography was poor for the purpose of interpreting alongshore details (rocks, piles, etc.); and, in addition, field inspection of alongshore rock details was incomplete. As a result a considerable number of rocks were added by the hydrographic survey party; also, rock details were carried forward to the smooth sheet from prior surveys during verification.

The addendum to the "Summary" included in this Descriptive Report contains additional information pertaining to the adequacy and accuracy of project maps. The maps are to be registered; remapping, however, is recommended for future hydrographic survey support purposes.

Reviewed by

S. G. Blankenbaker

Approved by

Charles F. Lucas
Chief, Photogrammetric Branch

Ralph Sabatelli  FEB 6 6 1968
Chief, Photogrammetry Div.

Chief, Marine Chart Div.
GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-163 (Rhode Island)
T-10490

Bristol
Bristol County
Bristol Harbor
Bristol Ferry
Bristol Neck
Bristol Point
Castle Island
East Cemetery
East Passage
DeWolf Cemetery
Fort Hill
Ferry Cliff
Hog Island
Hog Island Rock
Hook Island Shoal
Juniper Hill
Juniper Hill Cemetery
Mill Gut
Middle Ground
Mill Pond
Mount Hope Bay
Mount Hope Bridge
Musselbed Shoal

Narragansett Bay
Newport County
North Point
Popasquash Neck
Popasquash Point
Poultsmouth
Prudence Island
Rhode Island
St. Mary's Cemetery
Silver Creek
Southwest Point
Usher Cove
Usher Point
Usher Rocks
Walker Cove
Walker Creek
Walker Island

Approved by:
A. Joseph Wright
Chief Geographer

Prepared by:
Frank W. Fickett
Cartographic Technician
**U.S. DEPARTMENT OF COMMERCE**
**COAST AND GEODETIC SURVEY**

**NONFLOATING AID OR LANDMARKS FOR CHARTS**

Baltimore, Maryland 2 February 1959

I recommend that the following objects which have not 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 Joseph W. Vonasek

<table>
<thead>
<tr>
<th>STATE</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>TANK</td>
<td>steel, water, ht=170(227)</td>
</tr>
<tr>
<td></td>
<td>Bristol Black Tank 1932</td>
</tr>
<tr>
<td>STACK</td>
<td>round, brick, ht=181(228)</td>
</tr>
<tr>
<td></td>
<td>Bristol Stack, 1932</td>
</tr>
<tr>
<td>TOWER</td>
<td>square, buff brick, ht=90(145)</td>
</tr>
<tr>
<td></td>
<td>(△ Bristol, Square Stone</td>
</tr>
<tr>
<td></td>
<td>Church Tower, 1912)</td>
</tr>
<tr>
<td>TANK</td>
<td>steel, water, ht=126(131)</td>
</tr>
<tr>
<td>TANK</td>
<td>steel, water, ht=118(123)</td>
</tr>
<tr>
<td>TOWER</td>
<td>steel, ht=285(285) △ Mt. Hope Bridge North Tower, 1932</td>
</tr>
<tr>
<td>TOWER</td>
<td>steel, ht=205(265) △ Mt. Hope Bridge South Tower, 1932</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.

* TABULATE SECONDS AND METERS

Comm-DC 28356
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

Joseph W. Vonasek

William F. Deane, Chief of Party

<table>
<thead>
<tr>
<th>STATE</th>
<th>RHODE ISLAND</th>
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</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>LT</td>
<td>Hog Island Shoal Light (△)</td>
</tr>
<tr>
<td>LT</td>
<td>Hog Island Shoal Lighthouse, 1913</td>
</tr>
<tr>
<td>LT</td>
<td>Castle Island Light (△ Castle Island Light, 1956)</td>
</tr>
<tr>
<td>LT</td>
<td>Bristol Harbor Light</td>
</tr>
</tbody>
</table>

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## INSTRUCTIONS
A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
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<tbody>
<tr>
<td>236</td>
<td>7/19/68</td>
<td>D. Hegele</td>
<td>Full Part Before After Verification Review Inspection Signed Via</td>
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<td>Drawing No. 35 - No Cons.</td>
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<td>O. Chapman</td>
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<td>Drawing No. 25 Revised Topo</td>
</tr>
<tr>
<td>353</td>
<td>12-16-70</td>
<td>H. Drewley</td>
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<td>2-17-72</td>
<td>W. Leblanc</td>
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<tr>
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<td>6-10-72</td>
<td>W. Leblanc</td>
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