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6356

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

State: Massachusetts

DESCRIPTIVE REPORT

Topographic } Sheet No. E
~~Hydrographic~~

6356

LOCALITY

Buzzards Bay

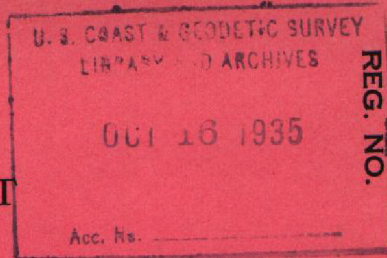
New Bedford Harbor

193 5

CHIEF OF PARTY

Wm. D. Patterson.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY



TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. "E"

REGISTER NO. 6356

State. Massachusetts

General locality. Buzzards Bay
~~New Bedford Harbor~~

Locality. New Bedford Harbor

Scale 1:5000 Date of survey May, 1935

Vessel Field Party No. 5

Chief of party. Lieut. Wm. D. Patterson

Surveyed by Daniel S. Ling

Inked by G. R. Smith

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated July 11, 1934

Remarks:

DESCRIPTIVE REPORT

To Accompany

TOPOGRAPHIC SHEET "E" (Field Letter)

NEW BEDFORD HARBOR, MASS.

1935

Project HT-179

Wm. D. Patterson

Chief of Party

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INSTRUCTIONS:

This work was done under the Director's Instructions dated July 11, 1934.

METHODS:

Standard Coast Survey plane table methods were used throughout this survey. No traversing was necessary and all signals were located by intersecting cuts. This survey was controlled by triangulation stations most of which were located or relocated by Lieut. Wm. D. Patterson in 1934 and 1935. A little difficulty was encountered on this sheet in getting sharp intersections due to some undetermined inaccuracy either in the projection or triangulation locations. It was definitely found that the 1875 location of Palmer Island Lighthouse was slightly in error, probably due to a very weak triangle. Since very few of the triangulation stations could be occupied with the plane table the graphic solution of the three point problem was used in carrying forward the secondary control.

DESCRIPTION:

The cities of New Bedford and Fairhaven are along the shores covered by this sheet so the entire shore line shows buildings, wharves, and slips, railroad yards, etc. Except for changes in the wharves and the filling in of small streams or marshy spots no change in shoreline was indicated. Due to the presence at nearly all set-ups of large masses of iron and steel, such as car wheels, rails, sheet metal buildings, etc the magnetic meridian shown is probably somewhat in error. New Bedford and Fairhaven are connected with a triple bridge crossing at Fish and Pope Islands. For bridge clearances on these see the hydrographic report for this area.

1
H. 5881 (1935)

GEOGRAPHIC NAMES:

The following geographic names which are shown in pencil on the sheet are all well established local names and are all shown on present chart:-

City or Town names:- New Bedford
Fairhaven
Oxford

Islands:- Fish
Pope
Crow
Palmer

Point:- Fort Phoenix

LANDMARKS FOR CHARTS:

Landmarks for Charts are submitted in a separate report.

DESCRIBED
TOPOGRAPHIC STATIONS:

All U.S. Engineer harbor marks in this area were searched for and those found were located and described on Form 524. Other recoverable objects such as spires, stacks, etc., were also described on this form. The U. S. Engineer's blue print showing harbor lines in this area is being forwarded with the topographic sheet. Notes as to marks found and those lost have been made on this blue print. *Ref. No. 292298 30.*

STATISTICS:

Scale	1:5000
Area in square statute miles	2.5
Statute miles of shoreline	13.0

Respectfully submitted,

Daniel S. Ling
Daniel S. Ling,
Surveyor, U.S.C. & G.S.

Approved and forwarded:

Wm. D. Patterson
Wm. D. Patterson, Lieut.,
Chief of Party.

Diagram No. 1210-2

GEOGRAPHIC NAMES

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>New Bedford</u> ✓	same			
	<u>Oxford</u> ✓	"			
	<u>Fairhaven</u> ✓	"			
	<u>Popes I.</u> ✓	"			
	<u>Fish I.</u> ✓				
	<u>Crow I.</u> ✓	"			
	<u>Fort Phoenix</u>	<u>Ft. Phoenix</u> ✓			
	<u>Palmer I.</u> ✓	"			
	<p><i>Names approved Dec. 16 1935</i></p> <p><u>New Bedford-Fairhaven Bridge</u></p> <p><i>8/12/36</i> <i>B. Egnel</i></p>				

REVIEW OF TOPOGRAPHIC SURVEY No. 6356 (1935) Field No. E

Title (Par. 56)

Chief of Party *W.D. Patterson* Surveyed by *D.S. Ling* Inked by *G.R. Smith*

Ship Field Party No. 5 Instructions dated July 11, 1934 Surveyed in May 1935

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, ~~9~~, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
No traverse necessary; all signals were located by cuts.
4. ~~The amount of vertical control that the Manual specifies for contours-formlines was accomplished.~~ (Par. 18, 19, 20, 21, 22, 23.)
5. ~~The delineation of contours-formlines is satisfactory.~~ (Par. 49, 50.)
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *Registered as blueprints Nos. 29229 and 29230.* ✓
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) *The reference to M.L.W. was omitted where rock symbols are shown on the sheet.* ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)
Previous surveys show no rocks which were not located by the present survey except in those areas where artificial improvements have been made.
10. The span, draw and clearance of bridges are shown. (Par. 16c.) ✓
Vertical Clearances given in D.R.H-5881 (1935)
11. ~~Locations and elevations of summits are given.~~ (Par. 19, 51.) ✓
12. ~~The tree line was shown on mountains.~~ (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)
No list of plane table positions submitted.
14. ~~The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.~~
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) ✓
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *No evidence of that the declinator was checked is in the report.*
18. The geographic datum of the sheet is *N.A. 1927 (unadjusted)* and the reference station is correctly noted. (Par. 34.)
19. Junctions with contemporary surveys are adequate. ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report ~~after review by~~
24. Remarks:

Reviewed in office by

*B. Pizzari Mar. 4, 1936.**Inspected by R.J. Christman, July 22, 1936.*

Examined and approved:

C. H. Green
Chief, Section of Field Records*Fred. L. Peacock*
Chief, Section of Field Work*L. O. Lobbat*
Chief, Division of Charts*G. H. Hilde*
Chief, Division of Hyd. and Top.