

3407

Diag. Cht. No. 1208-2

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

~~Topographic~~
Hydrographic } Sheet No. 3407

State MASSACHUSETTS

LOCALITY

By Cape Cod Bay

Barnstable Harbor Entrance

1925

CHIEF OF PARTY

P. C. Whitney

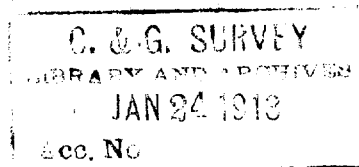
3407

H. 3407.

Small piece of work at Barnstable Harbor entrance. The zig-zag line northward from Sandy Point is not sufficient to draw depth curves, one or two channel lines would have added to the value of the work.

Sheet examined in
of Hyd'y & Top'y.

Hyd. 3407.



Locality: Barnstable Harbor, Massachusetts

Special Locality: Investigations of Changes at Beach Point

Date: November 6, 1912

Boat Used: Whaleboat, Paul C. Whitney, Ass't., in charge

Vessel: Steamer Hydrographer, Paul C. Whitney, Commanding

Scale: 1/10,000

3407

Discriptive Report

to accompany Hydrographic Sheet 3407.

Reported Changes, Beach Point

Barnstable Harbor

Massachusetts

November 6, 1912

Paul G. Whitney

Chief of Party

The hydrography on this sheet was executed to verify the reported extension of Beach Point, Barnstable Harbor, to the eastward. It was not made as a new harbor survey and the work was confined just to the section to verify, or not, this reported change. Returning to the ship, anchored off the red buoy, a zig-zag line down the present channel was run, locating the present position of the channel buoys. As can be seen this present channel disagrees with the channel laid down on the chart, being about midway between it and a partial channel to the eastward. The buoy locations, too, are quite different. As reported by the fisherman, using the channel, it is subject to change during any heavy weather, and the buoys are shifted accordingly.

As can be seen this survey verifies the new shoreline run in 1909, which was laid down in red ink on chart 339 by the Office and now return with this sheet, and as located now Beach Point, and consequently the channel, is much more

to the eastward than shown on the chart.

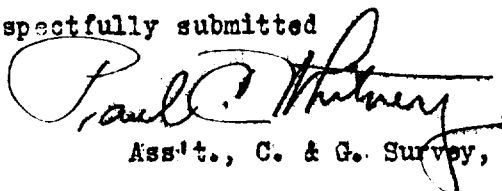
The signals used were those plotted on the smooth sheet by the Office and in addition, two were taken from a copy of Assistant French's triangulation and one cut in by the field party.

Tides were read at a staff erected in Barnstable Harbor, in accordance with tidal information furnished by the Office. A tidal current of considerable velocity makes around Beach Point and the ebb current interfered with the work at the time.

Accompanying this sheet are the following

One volume Sounding Records:
One volume Tidal Observations
List of Statistics,
Discriptive Report
Chart No. 339 —

Respectfully submitted



Ass't., C. & G. Survey,

Commanding Str. Hydrographer

3407

List of Statistics

to accompany Hydrographic Sheet 3407

Reported Changes, Beach Point

Barnstable Harbor

Massachusetts

Date, 1912	Letter	Vol	Posit tions	Sound- ings	Status Miles	Boat
November 6	a	1	144	499	10.1	Whaleboat

Tidal Data

Plane of Reference, reading on gauge 1.7 feet

Tide Gauge, south of Beach Point, Barnstable.

VEO
Feb. 7, 1913.

HYDROGRAPHIC SHEET 3407.

Barnstable Harbor, Massachusetts; by Asst. Paul C. Whitney
in 1912.

TIDES.

	Sandy Neck Light ft.
Mean low water, or plane of reference on staff	-1.7
Lowest tide observed " "	-3.0
Highest " " " "	10.0
Mean range of tide	9.4

Coast and Geodetic Survey

FEB 7 1913

TIDAL DIVISION

Hyd. Sheet # 3407

The work shown on this sheet was made to verify a reported extension of "Beach Point" to the eastward and the work is good and sufficient so far as it goes for the purpose intended and develops the fact that the Channel entrance to the harbor has changed materially since 1886 as shown on Hyd. Sheet # 751 and which appears to be the latest survey in this vicinity.

Just south and east of the point the lines are run sufficiently close and the soundings sufficiently numerous to develop the curves with a degree of accuracy but a few cross lines should, or might have been run for the purpose of a check.

To the north and east of the point the zig zag lines run are not sufficiently close to properly develop the curves and leaves the channel entrance somewhat vague, Additional lines should have been run or those run run closer in order to properly develop the 6ft +12 ft curves so that when applied to the Chart the curves could be completed without too much adjusting or guesswork.

John D. Lounsbury

Feb. 26, 1913.

positions and plotting verified, Nov. 2, 1915
Coline R. F. Land.