

4325

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

....., Director

G. & G. SURVEY

L. & A.

JUN 27 1928

Acc. No.

State: New York

DESCRIPTIVE REPORT

Topographic

Hydrographic

Sheet No.

A

4325

LOCALITY

South Coast of Long Island

Rockaway Pt. to Far Rockaway

1927

CHIEF OF PARTY

C. D. Meaney

GOVERNMENT PRINTING OFFICE

4325

C. & G. SURVEY

L. & A.

JUN 19 1928

Acc. No.

DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEET A

U. S. Coast and Geodetic Survey,
E. Lester Jones, Director.

C. D. Meaney,

Chief of Party.

INSTRUCTIONS.

In accordance with instructions dated April 8, 1927, a topographic survey was executed of the outside coastline along the south shore of Long Island from the Edgemere Hotel to a junction with the U. S. Engineers survey at $73^{\circ} 54.6'$ East.

In accordance with supplemental instructions dated May 14, 1927, a revision was made of the inside coastline from the longitude of Rockaway Point Coast Guard east to Far Rockaway.

TOPOGRAPHY BY

The topography on this sheet was executed by C. D. Meaney, Lieutenant U. S. C. & G. S.

CONTROL

The topography on the outside coast was controlled by triangulation stations Edgemere Hotel, Incinerator tall brick chimney, New Water Tank, Seaside Hotel, Belle Harbor Church, Hospital Tank, C. G. #92, B. C." (Aux), West Rear Range and B'.

SURVEY METHODS

The following traverses were run with closing errors as noted. Seaside Hotel to Edgemere Hotel closing error 20 meters, Seaside Hotel to Hospital tank closing error 8 meters, Hospital tank to Aux closing error 8 meters, Aux to B' No closing error.

For the inside revision short traverses were run between three point fixes.

GENERAL DESCRIPTION

The outside shoreline is a gently sloping sand beach protected along most of its length by jetties placed at rightangles to the general trend of the shoreline and extending generally from inside the high water line to the low water line. These jetties or groins are supplemented in some places by wooden and concrete bulkheads parallel to the general trend of the beach back of the highwater line. From longitude $73^{\circ} - 49.8'$ E to longitude $73^{\circ} - 47'$ E the beach has evidently been extended by pumping from Jamaica Bay to furnish the fill. This section of the beach is protected by new jetties.

From the Edgemere Hotel westward to Hospital Tank numerous buildings have been erected along the waterfront. In the vicinity of signal Swing is an amusement park with roller coasters, swings,

ferris wheels and prominent towers built incident to the park and visible from seaward.

West of Hospital Tank, east of C. G. 92, and north of the main road is a naval air station.

A concrete road running NNW from C. G. 92, E. S. E. from longitude 73° - 53', and S S E toward B' with the outside coast forms the boundaries of Fort Tilden. Control towers for gunfire are prominent objects visible from seaward.

West of Fort Tilden are scattered cottages.

CHANGES

The outside beach is continually undergoing changes, a section of the beach has been reclaimed, nearly all the beach is protected by wooden or stone jetties, supplemented by bulkheads, while numerous buildings have been erected. The ocean has worn away parts of the beach and built up other parts.

Along the inside shoreline revision was made of changes and developments not shown on the present chart.

POSITIONS

A list of plane table positions used for hydrography and a list of positions on form 567 of prominent objects useful for navigation, accompany this report.

Respectfully submitted,

C. D. Meaney.

C. D. Meaney

Inspected and found adequate.

E. P. Ellis, July, 1928