

4433

Form 504	C. & G. SURVEY
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEYS	
JUL 5 1929	
Acc. No.	
State: SOUTH CAROLINA	
11-5613	
DESCRIPTIVE REPORT.	
4433	
Topographic Sheet No. B - 4433	
LOCALITY:	
Charleston Waterfront	
and Harbor	
1928	
CHIEF OF PARTY:	
R.F.A. Studds	

4433

- D E S C R I P T I V E R E P O R T -

to accompany the
TOPOGRAPHIC SHEET "B"

Revision Survey of Charleston, S.C., Harbor

INTRODUCTION.

This survey was made according to Supplemental Instructions dated May 16, 1928.

This sheet comprises that part of Charleston Harbor between the Ashley and Cooper Rivers and south of Latitude $32^{\circ} 50'$.

Such changes as were noted from Chart 470 and bromide copy of portion of Topographic Sheet 3854 were rerun.

This report covers the topographic work done in the revision of Charleston Harbor. It is largely a description of the changes found since the last survey and will assist in bringing the chart up to date.

SHORELINE, WHARVES, ETC.

Changes in the shoreline and wharf delineation are shown on the topographic sheet. Some of the more important changes are given in detail as follows:

(1) A new wharf has been built at the Gulf Refining Company property, Shipyard Creek, in Latitude $32^{\circ} 49.75'$, Longitude $79^{\circ} 56.4'$. The wharf and a water tank were located. These points will assist in tying in tanks and buildings shown on Print No. 1, attached to Topographic Sheet.

(2) The small marsh island near Shipyard Creek, shown on the chart, no longer exists as an island. It becomes bare at low water. The Standard Oil Company has constructed a pipe line from its property across this flat. This is a double pipe line and is shown on the Topographic Sheet in approximately Latitude $32^{\circ} 49.5'$, Longitude $79^{\circ} 56.2'$.

(3) There is a highway bridge being constructed across Town Creek, Drum Island and the Cooper River. At the time of the survey,

only piers 2, 3, 4, 5, 6, 11 and 12 were constructed; these were located. The topographer acquired information as to the location of the several piers to be constructed and as to the allowable clearance and breadth of channel between piers. This information was forwarded to the Division of Charts, letter No. 166-1929, Blue-print No. 22473. Print No. 3, submitted with the topographic sheet, shows the Charleston approach to this bridge.

(4) A new wharf has been built by the Port Utilities Commission, Charleston, on the west side of Cooper River, opposite Δ Red Beacon, 1919, in Latitude $32^{\circ} 46.9'$, Longitude $79^{\circ} 55.5'$.

(5) An extension has been added to the U. S. Engineer's Dock, just south of the new Port Utilities Commission wharf.

(6) A new wharf has been built on the east side of the Ashley River by J. F. Prettyman and Sons in Latitude $32^{\circ} 49.3'$, Longitude $79^{\circ} 57.7'$. The wharf and water tank are shown on the topographic sheet. Print No. 2, showing their plant, is attached to this sheet.

(7) On the east side of the Cooper River, a new ferry slip has been built. Approximate location, Latitude $32^{\circ} 47.7'$, Longitude $79^{\circ} 54.3'$.

(8) Twelve mooring buoys, established by the U. S. Navy, in the Cooper River, were located. Information as to the permanency of these buoys could not be had definitely, but it was the opinion of the Captain of the Charleston Navy Yard that they would be permanent through 1930 and he suggested that they be shown on the chart.

(9) Changes in approaches to the Ashley River bridge in Latitude $32^{\circ} 48'$, Longitude $79^{\circ} 58'$, are shown on Print No. 3, submitted with this report.

METHODS EMPLOYED.

Only those portions of the shoreline were surveyed where changes were found to exist. The remainder of the shoreline is shown on the sheet in broken pencil and was transferred from a photostat of Topographic Sheet 3854, surveyed in 1921. It will be noticed that some of the wharves are dilapidated or consist of piling only, while in other cases they were built up. The control for the work was obtained from the many prominent objects which have been located by triangulation in this locality.

GENERAL.

It is believed desirable to show the location of the U. S. Customhouse. This has been noted on the accompanying section of Chart 470 and also on Print No. 3.

△ West Wireless Tower (1919) in Latitude $32^{\circ} 46.5'$, Longitude $79^{\circ} 56.7'$, has been removed and △ East Wireless Tower (1919) is to be removed within a few months. △ South Wireless Tower is being used by the U. S. Lighthouse Bureau to display storm warnings and is said to be permanent.

A list of plane-table positions of permanent objects is attached to this report.

The form, Landmarks for Charts, showing new prominent objects located by plane-table, is also submitted. In this connection, the West Wireless Tower, above mentioned, having been dismantled, should be expunged from the chart.

SUPPLEMENTAL BLUE-PRINTS AND MAPS.

Photostat (Print No. 1) of the Gulf Refining Company shows the plan of their property as it now exists.

Print No. 2 of the J. F. Prettyman and Sons shows the plan of their wood-preserving plant. The wharf is shown correctly on the topographic sheet. These corrections have been noted in red pencil on the blue-print.

Print No. 3 of the Port of Charleston shows the approaches to the Ashley and Cooper Rivers bridges and the location of the U. S. Customhouse.

A section of Chart 470 that is included in this survey is also attached to the sheet. Points common to those of Print No. 3 have been marked in red pencil, to assist in tying in approaches to the Ashley and Cooper Rivers bridges.

Submitted

Lawrence W. Swanson.

L. W. Swanson,
Aid, U.S. C. & G. Survey
Topographer

Forwarded:

H. F. A. Studds.

H. F. A. Studds,
Jr. H. & G. E., U.S. C&G. Survey,
Chief of Party.

*See memo on p. 5
E.S.*

LIST OF PLANETABLE POSITIONS

Object	Latitude		D.M. meters	Longitude		D.P. meters	Remarks
	o	'		o	'		
Chimney, brick	32	50	320.4 (1527.9)	79	57	20.5 (1540.0)	Tuxbury Lumber Co.
Tank	32	49	1399.1 (449.2)	79	56	1012.9 (547.9)	Gulf Refining Co.
Chimney, brick	32	49	594.7 (1253.6)	79	56	1484.3 (76.5)	Standard Oil Co.
Tank	32	49	819.6 (1028.7)	79	57	358.8 (1202.0)	Prettyman & Sons
Tank	32	49	508.8 (1339.5)	79	57	584.4 (976.4)	Ashpoo Mill
Stack, concrete	32	49	735.1 (1113.2)	79	57	1036.3 (524.5)	
Chimney, brick	32	49	967.2 (881.1)	79	57	784.6 (776.2)	

TOPOGRAPHIC SHEET

"B"

STATEMENT OF CHIEF OF PARTY

This sheet has been examined and is approved.



R.F.A. Studds,
Jr. H & G E,
USC&G Survey,
Chief of Party.

*The survey complies with the instructions, and the
junctions with the adjoining work are adequate.
The control for utilizing the prints submitted is adequate.
The work, including the field drafting, is satisfactory
and no additional surveying is required.*

E. P. Ellis

April 8, 1930

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4433

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. B

REGISTER NO. **4433**

State SOUTH CAROLINA

General locality Southeast Coast

Locality Charleston Waterfront and Harbor

Scale 1:10,000 Date of survey October, 1928

Vessel Launch ELSIE

Chief of Party R.F.A. Studds

Surveyed by Lawrence W. Swanson

Inked by Lawrence W. Swanson

Heights in feet above - to ground to tops of trees

Contour, Approximate contour, Form line interval - feet

Instructions dated May 16, 1928

Remarks: Three blueprints attached to Topographic Sheet.