DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
E. LESTER JONES: SUPERINTENDENT.

DESCRIPTIVE REPORT
to accompany
TOPOGRAPHIC SHEET Bk 3660
REVISION OF TOPOGRAPHY OF SAN FRANCISCO BAY

SURVEYED UNDER THE DIRECTION
OF
L.C. Colbert, Assistant.

BY
R.C. Briggs, Aid and M.H. Clark, Aid.

DECEMBER 1916.

Scale. ..... 1 : 10,000.

Rep. 16473 - transmitted with sheets. (For copying only.)
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY.
E. Lester Jones, Superintendent.

Descriptive Report to accompany Topographic Sheet (B)

Revision of Topography of San Francisco Bay.


Limits of Sheet:

This sheet takes in the shoreline of Richardson Bay and that of the peninsula from Belvedere Point north to San Quentin.

Control:

Triangulation stations served as the basis for the control, and because of their scarcity on the sheet, due principally to its scale, (1:10,000), practically all the work was accomplished by traverselines. With the exception of Point Blunt Light, whose position was obtained from Assistant, E.W. Eickelberg from data obtained from by his triangulation party, all the geographic positions of the stations plotted on the sheet were taken from the Superintendent's Report of 1910. The data was obtained from this source because the part, at that time, the results of the work done by Mr. Eickelberg, were unavailable. The descriptions in the above mentioned report were used in recovering the stations.

Of the thirty-three stations that could be plotted on the sheet, twenty-one were recovered and used. This number includes six stations previously recovered stations by Mr. Eickelberg and his newly determined station - Point Blunt Light.

No attempt was made to locate three of these stations which lay a considerable distance from the work. Nine others were searched for but could not be found. A list of the lost stations follows:

San Quentin Wharf House, Prison Search light, South Base, Reservoir, Angel Island, Angel Island, White Tank, Angel, and Quarry.

Scale of the Sheet: 1:10,000.
Party:

The work was divided into two sections. The one covering the shoreline of Richardson Bay and that part of the peninsula from Belvedere Point to Tiburon Rock, was done by Aid, C. Briggs. The other part, including the shoreline of the peninsula from Tiburon Rock to San Quentin, also that of Angel Island, was done by Aid, W.H. Clark. Two rodmen were used at all times. The party was conveyed to the different points of the survey by the launches used in the wire drag work and hydrographic surveying.

Detailed Description of the Shoreline:

In making this revision survey it was necessary understood by the topographers that the principal object was to determine all improvements along the water front. No attempt was made to run in the shoreline, except at places where it appeared to be changed from that shown on chart No. 5532, so it follows that there are many gaps showing on the sheet. The dotted shoreline shown on the sheet was transferred from the above mentioned chart. In general, the shoreline, as it now exists, is practically the same as that shown on the above-mentioned chart. The changes that were discovered are noted below.

Some changes were made at the north end of Richardson Bay, where it was considered more accurate to indicate the high water line as following the railroad and highway embankments, rather than the marsh edge as shown on the chart mentioned.

The pilings driven in Richardson Bay were driven in by the Navy Engineers, and were located on this sheet at their request. All these piles which lay above the high water mark were later removed, but others some of which hardly show above high water, were left there, and are quite likely to prove dangerous for small boat navigation.

In the more thickly settled districts, such as Sausalito, Tiburon and Belvedere, no attempt was made to locate every building. However, waterfront streets and buildings as well as the more distant structures of such size or character as to make them conspicuous, were carefully determined.
Detailed Description of the Shoreline, Continued:

At California City where the Naval Coaling Station is located, it was rather difficult to determine whether or not the chart represented conditions correctly, so the dock was again located. The buildings in the immediate vicinity were replaced and transferred from a blue print obtained at the office of the station.

At El Campo the two smallest docks or landings shown on the chart have disappeared. There are remaining, however, a few old pilings where the docks probably stood. In addition has been built onto the dock belonging to the Bay City Live Stock Company, as shown on the sheet.

The small dock shown on the chart about 800 meters south of California Point does not exist. About 500 meters south of the above mentioned point is a small private landing directly in front of a large white dwelling house.

The quarry dock about 900 meters below California Point is the same as shown on the chart, as well as the nearby buildings. However, work there has now been abandoned and the structures are all in a general run down condition and rapidly deteriorating.

Just above California Point the two small docks shown on the chart are no longer in existence. About 600 meters north of the Point is a small clam bed, enclosed by a loosely built wooden fence.

The shoreline of the bight just to the southward of San Quentin prison, was found to be as represented on the chart.

At San Quentin some changes have been made in the prison, as shown on the sheet. The buildings inside the prison walls as well as the dock on the west shore of the point, were transferred from a blue print obtained at the Wardens office. The buildings along the road outside the prison walls were determined by a traverse run from the prison. The slip itself was rodded in but a good part of the road-way between the slip and the shoreline was sketched as it appeared to be the same as shown on the chart. The north end of the ferry slip could not be shown as it comes just off the edge of the sheet; however, the direction of the north wing of the slip was obtained and its dimensions are the same as those of the southern ones. The railroad trestle between the ferry slip and the beach at a point about 500 meters north of the ferry slip, no longer exists, but from the latter point to the westward it remains the same as shown on the chart.
Detailed Description of the Shoreline, Continued:

A ferry operates between this slip at San Quentin and Point Richmond, making the round trip about once every two hours during the day. A motor bus meets the ferry at San Quentin and conveys passengers to San Rafael. Thru the latter place runs a branch line of the Northwestern Pacific Rail Road, extending from the terminus at Sausalito to different points in Northern California.

Shoreline on Angel Island:

In the hospital Cove, practically everything is the same, except that the white tank, (a triangulation station,) has been moved farther up the hill, as shown on the sheet. The buildings here were transferred from blue-prints obtained from the officer in charge.

At the Immigration Station, the dock has been changed somewhat. Here too blue-prints in charge of the commanding officer, were used to transfer most of the buildings.

At Quarry Point are perhaps the most noticeable changes. This place is now used as a training station for recruits of the Navy. After the dock and main buildings had been located by the usual methods, the remaining structures were put on the sheet from a blue-print obtained from the engineer at the garrison.

On the west side of Angel Island no changes in the shoreline were found, except a small addition to the wharf at the west garrison. The buildings were transferred from blue-prints obtained at the East Garrison. The west garrison was formerly the only one on the Island, but at the present time is almost deserted, there being but a small force of men there.

The blue-prints used for transferring purposes, were, with some exceptions, returned to their respective owners at the latter's requests. The one retained was that of the Immigration Station on Angel Island, which is attached to this sheet.

The blue-print of the Immigration Station on Angel Island, also the Contours, - plan of California City were retained and are attached to this sheet.

No contours were run in as they had been sufficiently determined by previous surveys.
Statistics of this sheet: (B)

Area Surveyed in square miles. ............... 5.20
Length of general coast line in statute miles. 7.6
" " " shoreline of rivers " "
" " " " Creeks " "
" " " " Ponds " "
Length of roads in statute miles. ............. 10.8
Length of railroads in " " ............... 4.3
Topographic sheets finished, number of, ...... 1
" " " , Scale of, .... 1:10,000.

Respectfully submitted,

Approved,

L. O. Molline

W. H. Clark
Aid, Coast and Geodetic Survey.
Compiler

Assistant, Coast and Geodetic Survey.
Chief of Party.
<table>
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<th>OBJECT</th>
<th>LATITUDE</th>
<th>D.M.</th>
<th>LONGITUDE</th>
<th>D.P.</th>
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<td>569</td>
<td>122 - 27</td>
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TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

State . California.

General locality . San Francisco Bay.

Locality Angel Id., Richardson Bay and from peninsula north to San Quentin.

Chief of party . L. O. Colbert, Assistant.


Date of survey . December, 1916.

Scale . 1:10000.

Heights in feet above

Contour interval None.


Records accompanying sheet (check those forwarded): Photographs, Descriptive report, Horizontal angle books, Field computations, Data from other sources affecting sheet .

I blue-print of buildings at Immigration Station, Angel Id. 1 plan of buildings at California City.

Remarks:
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

State: California

DESCRIPTIVE REPORT.

Topographic Sheet No. 3660

Locality:
San Francisco Bay
Richardson Bay To
Pt. San Quentin

10% 21

Chief of Party:
F.G. Engle
DESCRIPTIVE REPORT.

To accompany Topographic Sheet 43560

San Francisco Bay.
Richardson Bay to Point San Quentin.

Revision under instructions dated Nov. 24, 1920.

This sheet is a bromide copy of Colbert's revision of 1917. The work consisted of examining the copy for changes and making the alterations with the aid of the planetable. One officer and three men comprised the party, making use of one of the launches from the ship. The work was done on various days, at times when the ship was working close by.

No traverses were run, the topographer locating himself when necessary by the aid of contiguous topography or such signals as could be used. No planetable positions were established.

Test piles, previously shown in Richardson Bay, have all been removed. No other changes of importance have occurred.

A. E. Studds.

R. F. A. Studds,
Jr. H & G E.,
Topographer.

F. C. Arley,

H & G E.,
Chief of party.
DESCRIPTIVE REPORT.

To accompany Topographic Sheet #3600

San Francisco Bay.
Richardson Bay to Point San Quintin.

Revision under instructions dated Nov, 24, 1920.

This sheet is a bromide copy of Colbert's revision of 1917. The work consisted of examining the copy for changes and making the alterations with the aid of the planable. One officer and three men comprised the party, making use of one of the launches from the ship. The work was done on various days, at times when the ship was working close by.

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R.F.A. Studds,
Jr. H & G E,
Topographer.

F.C. Eagle
H & G E,
Chief of Party.

Inked by R. F. A. Studds.

1. The plan and character of the work fulfill the requirements of the General Instructions.

2. In the survey of 1916 only one-third of the shoreline was re-surveyed. The remaining two-thirds was surveyed in 1881 and 1895 with about a mile of it in 1883. On sheet 3660A these unsurveyed stretches of shoreline appear to have been inspected only.

3. If there have been no changes in the unsurveyed shoreline than the character and scope of the surveying and field drafting are good and no further surveying is required.

4. Reviewed by E. P. Ellis, September, 1921.
TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3660.§

State CALIFORNIA

General locality San Francisco Bay

Locality Richardson Bay to Pt. San Quentin

Chief of party F. G. Angle

Surveyed by R. F. A. Studds

Date of survey Jan., Mar., 1921.

Scale 1 to 10,000

Heights in feet above

Contour interval feet.

Inked by R. F. A. S. Lettered by R. F. A. S.

Records accompanying sheet (check those forwarded): Photographs, Descriptive report, Horizontal angle books, Field computations, Data from other sources affecting sheet

None.

Remarks: