

6008

U. S. COAST & GEODETIC SURVEY  
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Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton *Director*

State: New York

DESCRIPTIVE REPORT

*Topographic*

~~Hydrographic~~

Sheet No. G 6008

LOCALITY

South Oyster Bay

Jones Beach

1933

CHIEF OF PARTY

Raymond P. Eymen

U. S. GOVERNMENT PRINTING OFFICE: 1921

6008

Descriptive Report  
To  
Accompany Topographic Sheet "G"

(a) General Description.

This sheet covers the area from Jones Beach Water Tower eastward to triangulation station Jones 2, and was done on a scale of 1:10,000. Instructions for this work were dated February 25, 1933.

The outside shore line is a fairly wide sand beach, back of which are sand dunes of moderate height. The sand dunes immediately south of the water tower, and just to the east have been leveled off due to the development of Jones Beach State Park. The bay side of this area is composed mostly of low marshy land covered with marsh grass. Immediately to the north is the State Boat Channel and the area to the north of this is composed of scattered low marshy islands.

The area to the south and west around Zaches Bay is a part of the Jones Beach State Park, and has been highly developed as a bathing beach.

South Line Island is a low and marshy, parts of which are under water at high tide. Several small creeks or leads run thru the main island itself.

Middle Line Island is also low and marshy. It is divided into two separate islands by a creek thru which boats can travel at high tide.

North Line Island is very similar to the other two island with a large portion being covered with water at high tide. On all of the islands in this section there were areas where the shore line was very irregular, grass growing in the water and making the edges very ragged.

The mainland to the north is very irregular and cut up with a number of small creeks and sloughes. This island is all low marshy area. The Channel marshes in the State Boat Channel are all alike, and consist of creosoted telephone poles with a white top resembling an acorn. They are about 10 - 12 feet high, and have a metal arrow about 4 feet from the top.

(b) Landmarks.

The most prominent landmarks in this section are the Jones Beach Water Tower, the high flag pole at the State Troopers barracks on the beach east of Zaches Bay, the four stone columns at the drawbridge on the Jones Beach Causeway, and to a lesser degree the shacks on the various islands.

(c) Control.

Control for this work was furnished by numerous triangulation points.

(d) Method & Closures

All traverse work was run by stadia. Errors of closure were kept very small as it was possible in most cases to obtain a strong 3 point fix check on the traverse stations, and make adjustments if necessary.

Channel markers and signals built by the topo party for hydrographic work, and other cut ins such as shacks were located by intersection cuts from 3 triangulation stations, supplemented by cuts from other stations is possible, and checks rod readings where traverse were run.

(e) Incomplete Work.

The entire shore line of all the islands was not run due to lack of time, and because it was believed that this could be best obtained from the air photos. Some of the sections of the shore of the mainland was very cut up, and hard to get to so it was decided that this could be best obtained

from the air Photos.

(f) Junctions.

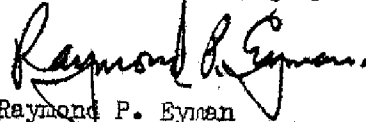
This sheet joins sheet "D" (onl:20,000) on the eastward and sheet "E" on the westward.

(g) Plane Table Positions.

A list of plane table positions accompanies this report.

Respectfully submitted,

Wm. D. Ayers, Topographer



Raymond P. Eymann  
Chief of Party

LIST OF PLANE TABLE POSITIONS--TOPOGRAPHIC SHEET "G".

<u>Name &amp; Description of Station.</u>	<u>Lat.</u>	<u>D.M.</u>	<u>Long.</u>	<u>D.P.</u>	<u>Means of Location.</u>
✓ <u>Flag Pole</u> -westerly one of group of 3-south of J.B. water Tower	40-35	(658.5) 660	73-30	(---) 729.0	By stadia from J.B. W.T.
<u>Tall Flag Pole</u> -center of group of 3-south of J.B. Water Tower	✓ 40-35	(619.5) 620	73-30	(---) 705.0	" " " "
✓ <u>Flag Pole</u> -easterly one of group of 3-south of J.B. Water Tower	40-35	(651.0) 655	73-30	(---) 675.0	" " " "
✓ <u>Flag Pole</u> -near Zachs Bay-just east of Parking Field.	40-35	(10)	73-30	(---) 266.8	By stadia from Triangulation Sta. Park
✓ <u>Flag Pole</u> -westerly one of group of 3-South of Zachs Bay	40-35	(497.5)	73-30	(---) 190.5	By stadia from Ocean traverse
✓ <u>Flag Pole</u> -easterly one of group of 3-south of Zachs Bay.	40-35	(486.2)	73-30	(---) 83.5	" " "
✓ <u>Flag Pole</u> -southerly one of group of 3-South of Zachs Bay	40-35	(605.5)	73-30	(---) 87.8	" " "
<u>FLAG</u> -Tall flag pole near State trooper barracks-near ocean Boat Marker-entrance limit marker-Zachs Bay	40-35	(202)	73-28	(87.7) 1323.0	Intersection cuts-also stadia
<u>Same</u> " " "	40-36	(1820.7) 30	73-29	(87.7) 1202.5	" " "
<u>Same</u> " " "	40-36	(1760.4) 91.3	73-29	(204.0) 1206.7	" " "
<u>Same</u> " " "	40-36	(1702.7) 148.0	73-29	(198.0) 1212.7	" " "
<u>Flag Pole</u> -east shore of Zachs Bay	40-36	(1365.5) 485.3	73-29	(1402.4) 8.3	(also Stadia)
<u>Flag Pole</u> -east shore of Zachs Bay	40-36	(1594.5) 256.2	73-28	(56.0) 1354.7	(same)
<u>Chimney</u> on shack (south of boat chan.)	40-36	(1425.8) 425.0	73-28	(471.4) 939.3	By stadia
<u>Chimney</u> on House (south of boat channel)	40-36	(796.6) 1054.2	73-27	(1042.2) 368.5	By Intersection cuts
<u>DOT</u> -high ban-red and black.	40-36	(895.7) 955.0	73-30	(---) 24	" "(also stadia
<u>Column</u> -stone-NW cor. of draw on bridge	40-37	(1091.8) 752.0	73-30	(---) 183.3	Intersection cuts
<u>Column</u> -stone-NE cor. of draw on bridge	40-37	(1081.8) 769.0	73-30	(---) 161.2	(also stadia)
<u>Column</u> -stone-SE cor. of draw on bridge	40-37	(1106.2) 744.6	73-30	(---) 151.0	" "
<u>Column</u> -stone-SW cor. of draw on bridge	40-37	(1116.2) 734.6	73-30	(---) 173.2	" "
<u>BRICK</u> -chimney on shack Middle Line I.	40-37	(1003.3) 847.5	73-29	(510.3) 900.4	Intersection cuts
<u>PEG</u> -F.P. between shacks Middle Line I.	40-37	(859.5) 991.3	73-28	(145.5) 1265.0	" "
<u>Chimney</u> on shack-32 m. west of PEG.	40-37	(870.8) 980.0	73-28	(115.2) 1295.2	" "
<u>Chimney</u> on shack-30 m. east of PEG.	40-37	(865.8) 985.0	73-28	(172.0) 1238.4	" "

LIST OF PLANE TABLE POSITIONS-TOPOGRAPHIC SHEET "G".

<u>Name &amp; Description of Station.</u>	<u>Lat.</u>	<u>D.M.</u>	<u>Long.</u>	<u>D.P.</u>	<u>Means of Location.</u>
<u>BAT</u> -High red and black banner	40-37	(293.0) 1557.8	73-28	(868.7) 541.7	Intersection cuts. ✓
<u>GUM</u> - High red and black banner	40-38	(1374.3) 476.5	73-29	(1283.5) 126.5	" "
<u>TIM</u> - High black and white banner	40-37	(10) 1840.8	73-29	(217.0) 1193.0	" "
<u>OWL</u> - High black and white banner	40-38	(1129.3) 721.5	73-29	(722.7) 687.2	" "
<u>LAM</u> - High black and red banner	40-38	(545.2) 1305.6	73-28	(572.3) 837.5	" "
<u>JOE</u> - High black and red banner	40-39	(---) 123.5	73-28	(776.1) 633.6	" "
<u>Flag Pole</u> -Mainland- north of Fort 2	40-39	(---) 768.5	73-28	(1204.4) 205.3	By stadia ---
<u>MIT</u> -Flag on 2x4 on top of sand dune	40-39	(---) 469	73-28	(1152.7) 257	" "
<u>RAY</u> - " " " "	40-38	(2.8) 1848.0	73-28	(1329.2) 80.5	" "
<u>Reference Mark</u> -Fort 1909 most northerly marker.	40-38	(91.0) 1759.8	73-27	(618.9) 790.8	" "
<u>Reference Mark</u> -Fort 1909 southerly marker	40-38	(131.3) 1719.5	73-27	(616.7) 793.0	" "
<u>S.S.Y.C.</u> Sign-yacht club North Line I.-SE cor.	40-37	(534.8) 1316.0	73-29	(844.2) 566.0	" "
<u>S.S. Y.C.</u> Sign-yacht club North Line I.-south side	40-37	(637.0) 1213.8	73-29	(1359.2) 51.0	" "
<u>Channel Marker</u> -Section of Telephone pole painted black-white acorn shaped top-metal arrow on side	40-37	(1214.3) 636.5	73-27	(459.4) 951.0	Intersection cuts from 3 or more Triang. stations.
<u>Channel Marker</u> -same as above	40-37	(1256.8) 594.0	73-27	(517.2) 893.2	" "
<u>Channel Marker</u> -Ditto	40-37	(1484.8) 366.0	73-27	(497.0) 913.4	" "
<u>Channel Marker</u> -Ditto	40-37	(1856.3) 194.5	73-27	(422.7) 987.4	" "
<u>Channel Marker</u> -Ditto	40-36	(194) 1656.8	73-26	(593) ----	" "
<u>State Boat channel</u> north of Sta. Jones 2	40-36	(315.8) 1535.0	73-27	(1694.2) 156.5	(156) ✓ " "
<u>Channel Marker</u> - " " "	40-36	(366.3) 1484.5	73-27	(864.5) 546.0	" "
<u>Channel Marker</u> - " " " "	40-36	(356.8) 1494.0	73-27	(470.0) 940.5	" "
<u>Channel Marker</u> - " " " "	40-36	(315.1) 1535.7	73-27	(361.0) 1049.5	" "
<u>Channel Marker</u> - " " " "	40-36	(610.8) 1240.0	73-27	(4) 1406.5	" "
<u>Channel Marker</u> - " " " "	40-36	(819.5) 1031.3	73-28	(884.5) 526.0	" "
<u>Channel Marker</u> - " " " "	40-36	(1045.8) 805	73-28	(347.0) 1063.5	" "
<u>Channel Marker</u> - " " " "	40-36	(1184) 663	73-28	(4) 1406.5	" "
<u>Channel Marker</u> (MARK)	40-36	(1192.8) 658	73-29	(1342.5) 68	" "

LIST OF PLANE TABLE POSITIONS-TOPOGRAPHIS SHEET "G"

<u>Name and Description of Station</u>	<u>Lat.</u>	<u>D.M.</u>	<u>Long.</u>	<u>D.P.</u>	<u>Means of Location.</u>
<u>Channel Marker</u>		(1440.8)		(678.5)	
(channel to Zachs Bay)	40-36	410.0	73-29	732.0	Intersection
		(1390.0)		(750.0)	Cuts
<u>Channel Marker</u> "	40-36	460.8	73-29	660.5	check by
		(996.9)		(1035.3)	stadia
<u>Channel Marker</u> "	40-36	853.9	73-29	375.2	" "
		(939.3)		(937.1)	
<u>Channel Marker</u> "	40-36	911.5	73-29	473.4	
(with signboard)		(733.8)		(713.3)	
<u>Channel Marker</u> "	40-36	1117.0	73-29	697.2	" "
		(638.0)		(456.5)	
<u>Channel Marker</u> "	40-36	1212.8	73-29	954.0	" "
		(408.0)		(353.0)	
<u>Channel Marker</u> "	40-36	1442.8	73-29	1057.5	" "
		(447.3)		(243)	
<u>Channel Marker</u> "	40-36	1403.5	73-29	1167.5	" "
		(166.5)		(118)	
<u>Channel Marker</u> "	40-36	1684.3	73-29	1292.5	" "
Boat channle leading to drawbridge		(102.5)		(---)	
✓ <u>Channel Marker</u> "	40-36	1748.3	73-30	56.0	" "
		(1680.8)		(87.5)	
<u>Channel Marker</u> "	40-37	170	73-29	1323.2	" "
		(1320.3)		(215.0)	
<u>Channel Marker</u> "	40-37	530.5	73-29	1195.7	" "
		(1120.3)		(223.0)	
<u>Channel Marker</u> "	40-37	730.5	73-29	1187.7	" "
		(1008.8)		(189)	
<u>Channel Marker</u> "	40-37	842	73-29	1221.3	m " "
✓ <u>Platform-Tie-up plat-</u>		(980.3)		(---)	
form for boats-telephone		870.5	73-30	14	Located by
connected to draw.	40-37	(993.3)		(---)	stadia
✓ <u>Marker</u> (orange color)	40-37	857.5	73-30	34	" " "
		(1003.3)		(---)	
✓ <u>Marker</u> " "	40-37	847.5	73-30	48	" " "
		(1063.5)		(9.2)	
<u>Marker</u> " "	40-37	787.3	73-29	1401	" " "
		(1076.4)		(--)	
✓ <u>Marker</u> " "	40-37	774.4	73-30	24	" " "
		(1212.6)		(---)	
✓ <u>Marker</u> " "	40-37	637.2	73-30	293.5	" " "
		(1222.3)		(---)	
✓ <u>Marker</u> " "	40-37	628.5	73-30	309	" " "
<u>Platform</u> (same as above)	40-37	(1231.8)		(---)	
		619	73-30	331	" " "
		(1197.5)		(---)	
<u>Channel Marker</u>	40-37	653.3	73-30	550	" " "

Form 274  
Ed. Jan., 1929

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. PATTON, Director.

State: N.Y. (Long Island)

SKETCHBOOK

ABSTRACT OF CONTENTS:

Various Data —  
(Accompanying  
Topographic Sheet "G")

1933  
R. F. Symon

CHIEF OF PARTY:

Vols. Vol.

Location of Channel measured by David		
(South of Square)		
C.M. #1	JONES to J.B. Water Tower = 132° 51'	
	J.B. Water Tower to Square = 98° 36'	
C.M. #2	J.B. Water Tower to FRT = 118° 53'	
(with cloth)	" " to JONES = 99° 09'	
C.M. #3	J.B. Water Tower to Square = 124° 43'	
(with cloth)	" " to JONES = 105° 38'	
C.M. #4	" " to Square = 127° 47'	
C.M. #5	" " to JONES = 111° 31'	
(2nd east of Lane)	" " to Square = 123° 32'	
	" " to GREEN = 41° 03'	
C.M. #6 (white cloth)	" " to Square = 117° 30'	
C.M. #7	" " to JONES = 100° 30'	
(with cloth)	" " to GREEN = 34° 20'	
C.M. #8	" " to Square = 62° 29'	
C.M. #9	" " to Square = 85° 28'	
(with cloth)	" " to JONES = 116° 56'	
C.M. #10	Next C.M. to East is white cloth (not channel!)	



SEXTANT

ANGLES

HYDROGRAPHIC SIGNAL

Ted to Fort =  $32^{\circ}-45'$

Fort to J.B. Water Tower =  $131^{\circ}-40'$

Check  
to

Ted to Square =  $73^{\circ}-48'$

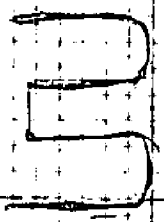
Square to J.B. Water Tower =  $90^{\circ}-33'$

HYDROGRAPHIC SIGNAL

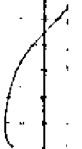
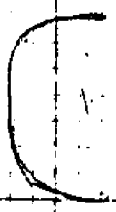
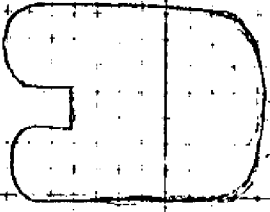
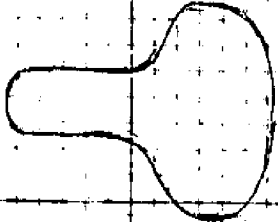
Fort to Flag Pole (J.B. <sup>Stable River</sup> ~~Barometer~~) =  $99^{\circ}-58'$

Flag Pole to J.B. Water Tower =  $26^{\circ}-11'$

Location of part  
of new section  
of Jones Beach  
Causway



10 m.



FORT (old station)

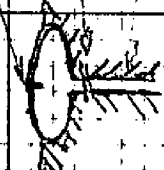
Oct. 25  
1923

The  $\Delta$  sta. was recovered in pretty much the same condition as described in 1926. The sta. was in poor condition; the top section having broken off. (The tile, part of which was found beneath.)

A signal and guy wires were found lying over the station.

The 2 tiles were marks were recovered with part of the tiles broken off, leaving the marks in poor condition.

These 2 tiles were located and isolated as the 12-10 block.

~~SURFACE~~   
sta. disk  
GROUND  
tile broken off  
tile found

Recovered by W.D.A.  
R.P. Exman.

Chief of Party

# LOCATION OF $\Delta$ Sta. FORT 1909.

FORT (old Sta. (1909).

(1528.82 ft)  
465.950 m

FORT 2 (1933).

FORT 2 13" W. 100

J.B. W. Tower

Fort (old Sta.)

1909.

D

R

00

13

41

25

50

50

50.8

51.7

W.D.A.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 6008

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. G

REGISTER NO. 6008

State New York

Long Island

General locality South Oyster Bay

Locality Jones Beach

Scale 1:10,000 Date of survey Oct.-Nov., 1933, 1932

Vessel "Captain Bill"

Chief of Party Raymond P. Eymen, Lt. Commander

Surveyed by W. D. Ayers

Inked by W. D. Ayers

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated Feb. 25, 1933, 1932

Remarks:



## REVIEW OF TOPOGRAPHIC SURVEY No. 6008

Title (Par. 56) *Long Island, South Oyster Bay, Jones Beach, New York*

Chief of Party *R. P. Eyman* Surveyed by *W. D. Ayers* Inked by *W. D. Ayers*

Ship *Shore party* Instructions dated *Feb. 25, 1933* Surveyed in *Oct. Nov. 1933*

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.) ✓
4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)  
*none*
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) *none*
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.) *None submitted.*
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.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
10. The span, draw and clearance of bridges are <sup>not</sup> shown. (Par. 16c.)
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.) ✓
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. <sup>no</sup> ~~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.) *They are listed in the Descriptive Report.*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *The general list for this project area is filed as letter 707/1933. The Desc. Rep. devotes a paragraph to Landmarks.*
17. The magnetic meridian was shown and declination was checked. ✓ (Par. 17, 52.)
18. The geographic datum of the sheet is *North American 1927* and the reference station is correctly noted. ✓ (Par. 34.) *Seconds in meters only. The Datum name was added in the office*
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 *R. J. Christman, Feb. 26, 1934.*

Examined and approved:

*L. O. Colwell*  
Chief, Section of Field Records

*J. S. Borden*  
Chief, Section of Field Work

*Chief of Division of Charts*  
Chief, Division of Charts

*E. H. Hude*  
Chief, Division of Hyd. and Top.

DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Washington Office,

May 15, 1935, 193

DIRECTOR, U.S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

**From data obtained by Comdr. G. D. Cowie April 24-26, 1935.**

**Plotted on this topo sheet and  
scaled by J.A. McCormick**

*Chief of Party.*

Compiled by J.A. McCormick

DESCRIPTION	POSITION					METHOD OF DETERMINATION	CHARTS AFFECTED
	LATITUDE		LONGITUDE		DATUM		
	°	'	D.M. METERS	°			
New locations of Channel Markers on T-6008.							
Channel Marker	40	37	820	73	29	1109	NA 1927 Sextant 579
" "	40	37	1001	73	29	1238	" " "
" "	40	37	384	73	29	1271	" " "
" "	40	37	88	73	29	1351	" " "
" "	40	36	1686	73	29	1293	" Topo "
" "	40	36	880	73	29	270	" Sextant "
" "	40	37	367	73	27	912	" Topo 578-579
Channel Markers to be deleted on T-6008							
Channel Marker	40	37	528	73	29	1198	NA 1927 579
" "	40	37	170	73	29	1325	" "

A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart.