

4554

Form 504
Ed. June, 1923

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

DEC 1 1930

State New York & New Jersey

DESCRIPTIVE REPORT

Topographic

Hydrographic

Sheet No.

4554

LOCALITY

Hudson River

New York City

145th St. to Spuyten Duyvil

Creek

1930

CHIEF OF PARTY

C. A. Egner

DEPARTMENT OF COMMERCE U.S. COAST & GEODETIC SURVEY
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REG. NO. 4554

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. "A"

REGISTER NO. 4554

State New York and New Jersey

General locality Hudson River, New York City

Locality ~~New York City~~ 145th St. to Spuyten Duyvil Creek

Scale 1:5,000 Date of survey August, 1930

Vessel Motor Vessel Natoma

Chief of Party C. A. Egner,

Surveyed by J.C. Tison, Jr.,

Inked by J.C. Tison, Jr.,

Heights in feet above _____ to ground to-tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated July 22nd, 1930, 192

Remarks: _____

NOV 18 1930

Acc. No. _____

DESCRIPTIVE

REPORT

Topographic Sheet "A"

Hudson River --- Vicinity N.Y. City.

Motor Vessel Natoma,

C. A. Egner, Commanding.

1:5,000

Season 1930

Descriptive Report
to accompany
Topographic Sheet " A "
Hudson River

M. V. Natoma.....

C.A. Egnor, Comdg.

1:5,000

Season, 1930

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET "A"

Hudson River, - Vicinity of New York City, Season 1930

AUTHORITY:

This work was executed under The Director's Orders dated July 22nd, 1930.

EXTENT:

Resurvey of Hudson River from 145th Street, New York City, northward to Spuyten Duyvil.

GENERAL DESCRIPTION:

The New Jersey shore of this section of the Hudson River consists of a steep rocky cliff, known as "The Palisades", which begins to rise about 10 meters back from the High Water Line abruptly to a height of about 300 feet. Northward from a point about three-quarters of a mile south of the Fort Lee - Washington Heights Bridge, the area between the shoreline and the top of the Palisades is owned by the State and operated as a public park. It is heavily wooded from the base of the cliff upward and large boulders are strewn down it's face. The High Water Line, where not broken by docks, is regular and consists of a three foot stone retaining wall, built to prevent wash. At low water there is a narrow strip of broken rock visible, which forms a narrow and gently sloping beach along the West Shore. Between the High Water Line and base of the cliff is a foot-path about three meters wide, starting at a point about one-quarter mile south of the Fort Lee-Washington Heights bridge and running northward to the limit of the sheet. Along the top of the Palisades north of the bridge are larger private estates, and southward from the bridge are adjoining incorporated towns. Southward from the southern limit of the park, the Palisades rises more gently and the side of the cliff is terraced to provide for houses lining the River and State Roads. This part of the shore is lined with small boat clubs and grounded barges used for dwellings, boat clubs, and repair companies.

The New York shore of the river is paralleled by the New York Central Railroad tracks and a bluff, whose base parallels the East side of the tracks and which rises to a height of from 100 to 200 feet. Southward from the Ft. Lee - Washington Heights Bridge, this bluff rises very abruptly and from 160th Street southward, consists of a vertical stone retaining wall with Riverside Drive paralleling it's top surface. The flat area between 160th and 153rd streets is bridged by a viaduct.

Large apartment houses line Riverside Drive on the East up to a point about one-quarter mile north of the bridge, and from there northward, give way to a rocky cliff whose side is covered with trees and which rises about one hundred feet above the Drive. In this area the bluff rises gently from the railroad tracks and is covered with trees up to Riverside Drive. This bluff is broken at Dyckman Street by a natural valley and Riverside Drive turns east just before reaching it. Northward from Dyckman Street the side of the bluff is heavily wooded and at it's top are large homes forming that section of New York City known as "Inwood".

The High Water Line on the East shore of the River is irregular south of the Ft. Lee - Washington Heights bridge due to recent filling in. This filling is still in progress and the shoreline will ultimately be extended outward to a limit fixed by the City of New York. The same procedure has been followed north of Dyckman Street, but elsewhere the High Water Line is very regular and very close to the New York Central Railroad tracks. There is practically no difference in the high and low water lines on the East shore, and they consist of an almost vertical wall of large rocks about five feet high.

LANDMARKS:

All prominent landmarks are described on Form 567, "Landmarks for Charts", and will be submitted in connection with the control for Air Photographs of this area.

SURVEYING METHODS:

The topography was executed entirely by the three point fix and resection methods, and location of all signals was either done or checked by numerous cuts.

CHANGES OF SHORELINE
& OTHER CHANGES:

The most outstanding changes in this area ^{is} are that of the shoreline on the East side of the Hudson River south from the Fort Lee - Washington Heights bridge, and again between Dyckman Street and Spuyten Duyvil. It has been filled in to a considerable distance outside the old location shown on existing charts, and this filling will be continued in these areas until the limit specified by the City of New York and U.S. Army is reached.

A large suspension bridge is under construction between Ft. Lee on the New Jersey side of the River and Washington Heights on the New York side. The towers of this bridge are visible for miles up and down the River, and were located at their bases by topography.

Very few outstanding changes have taken place in the docks along either shore, although many small docks have been built for small boat landings, and some of the old ones are in a delapidated condition.

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET "A" (Continued)

The Dyckman Street Ferry Slips on either side of the River appears to be new, and on the New Jersey shore just North of the bridge there is a new dock built by the Palisades Interstate Park for landing boats at Hazard's Beach.

All existing buoys in this part of the Hudson River are shown on the Hydrographic Sheet and were located by sextant angles. There are no lighted buoys along this area.

Respectively submitted

J. C. Tison, Jr.

J. C. Tison, Jr.,
Aid., Coast and Geodetic Survey.

Approved and forwarded:

C. A. Egnér
C. A. Egnér,
Commanding - Natoma.

NEW JERSEY - WEST SHORE - HUDSON RIVER -

Sta.	Lat.	D.M.	Long.	D.P.	Hght.	Remarks.
1.	Rus	40° 52' 30"	555 (370)	73° 56' 30"	277 (426)	S.E. Corner of N. pavilion Englewood Yacht. Club.
2.	Bay	40 52 30	380 (545)	✓ 73 56 30	343 (360)	80' 6" light mast in end of dock So. of entrance to Englewood Yacht Basin.
3.	Wod	40 52 30	113 (812)	73 56 30	452 (251)	80' Flagpole between Englewood Y. Club and Ferry landing.
4.	Cross	40 52 00	690 (235)	✓ 73 57 00	35 (688)	50' Wh. Cross on E end drk stone bldg belonging to ^{St. Joseph's} Catholic Orphanage, on Palisades
5.	Com	40 52 00	539 (386)	73 56 30	689 (14)	-- S.E. corner of South comfort sta. Palisades
6.	Peb	40 51 30	731 (194)	✓ 73 57 00	257 (446)	10' Large boulder at HWL S. of LIN.
7.	Cat	40 52 00	67 (858)	73 57 00	307 (396)	50' N.E. Chimney on lrg redrfd stucco ho. Span. Architecture on top of Palisades.
8.	Bur	40 51 30	669 (256)	73 57 00	431 (272)	30' Wh. Chimney in ruins of burned ho. near edge of Palisades.
9.	Ear	40 51 30	299 (626)	73 57 00	363 (340)	20' Flagpole on earthfill Camping grounds.
10.	Vil	40 51 00	712 (213)	73 57 30	42 (661)	-- N.E. cor of Pavilion Hazards Beach, Palisades
11.	Mas	40 51 00	211 (714)	73 57n 30	138 (565)	60' Flagpole so. of West Pier, Fort Lee Bridge.
12.	Lum	40 50 30	763 (162)	73 57 30	463 (240)	75' Flagpole in front of Lrg. Colonial Wh. Ho. Top of Palisades.
13.	Ton	40 50 30	630 (295)	73 57 30	524 (179)	N.E. corner drk stone Ho. with flat rf. Near edge of Palisades.
14.	Sho	40 50 30	468 (457)	73 57 30	521 (182)	30' N.E. cor. small wh. ho. near HWL, onside of Hill
15.	Rek	40 50 30	193 (732)	73 57 30	585 (118)	20' Stack of sunken tugbt
16.	Pol	40 50 30	413 (512)	73 56 00	246 (457)	100' Flagpole near red brk schlho. on Palisades.
17.	Ter	40 50 30	88 (837)	73 58 00	573 (130)	40' Center Peak of rf on 2-story wh. frame ho. on Palisades.
18.	Bot	40 50 00	562 (363)	73 58 00	258 (445)	50' Flagpole on top of Boathouse.
19.	Leg	40 50 00	211 (714)	73 58 00	10 (693)	100' Light mast on dock N. of entrance to Nat'l Yacht. Basin.
20.	End	40 50 00	55 (870)	73 58 00	206 (497)	Dolphin at NE cor of Iron Stmbt Co. dk.
21.	Zip	40 49 30	831 (94)	73 58 00	381 (322)	N.E. corner of shorter of two grass covered docks.

NEW JERSEY - WEST SHORE - HUDSON RIVER

Sta.	Lat.	D.M.	Long.	D.P.	Hght.	Remarks.
22. Red	40° 49' 30"	804 (121)	73° 58' 00"	695 (08)		N.Chimney on redrf.stucco ho.Span.Archit.top Palisa
23 Bea	40 49 30	669 (256)	73 58 00	318 (385)		S.E.cor.old Ferryboat aground & used for Boatho
24 Slim	40 49 30	416 (509)	73 58 00	324 (379)		E.end of conta-us row of Piles formng N.side of slip at Ballou Drydock and Repair Co.
25. Last	40 49 30	352 (573)	73 58 00	348 (355)		N.E. Corner dock at Ballou Dry Dock and Repair Company.

NEW YORK - EAST SHORE - HUDSON RIVER

26. Hit	40 49 30	370 (555)	73 57 00	356(347) 30'		White flagpole near HWL
27. Dar	40 49 30	454 (471)	73 57 00	317 (386)		S.W. corner 1-story wh. frame ho.near H.W.L.
28. Yel	40 49 30	640 (285)	73 57 00	203(500)		S.W. corner small yellow boat club.
29. Fle	40 49 30	867 (58)	73 57 00	111(592) 60'		Flagpole in front of Colonial Yacht Clubho.
30. Cor	40 50 00	85 (840)	73 57 00	39(664)		S.W. cor. small yellow house near H.W.L.
31. Him	40 50 00	460(465)	73 56 30	650(53)		Short chimney center of green frame house.
32. Cen	40 50 00	785(140)	73 56 30	513(190)		Door in west face of small greenhouse.
33. Lar	40 50 30	180(745)	73 56 30	426(277) 20'		Pole in SW cor. rf of lrg wh. boathouse.
34. Sat	40 50 30	531(394)	73 56 30	413(290) 20'		Flagpole in center front of 1st boatho.S of bridge
35. Gal	40 51 00	260(665)	73 56 30	187(516) 20'		Flagpole in W end of rf of green Boat house.
36. Tab	40 51 00	503(422)	73 56 30	43(660) 20'		Flagpole in W end of rf of Yellow Boathouse.
37. Ral	40 51 00	750(175)	73 56 00	580(123) 6'		Switch signal W of NYC R.R. Tracks.
38. Part	40 51 00	345(580)	73 56 00	484(219) 30'		Tower on large apartment ho.Dutch architecture - East of Riverside Drive.
39. Stac	40 51 00	859(66)	73 56 00	265(438) 50'	✓	Yellow brick stack E of Riverside Dr.& No.of Washngtn Heights Bridge.
40 Watch	40 51 30	146(779)	73 56 00	371(332)		Center of small circ. Watchmans hut,E of NYCRR
41 Go	40 51 30	217(708)	73 56 00	333(370)		NW cor tinshack E of NYCRR
42 Gra	40 51 30	145(780)	73 56 00	76(627) 50'		Tower on lrg castle-like grey stone ho. On hill E. of Riverside Drive
43 Tin	40 51 30	685(240)	73 56 00	110(593) 10'		Tin stack on small red ho near HWL.
44. Man	40 52 00	232(693)	73 55 30	616(87) 20'		flgpl cent.E end rf Dyckman str.Ferry Building.
45. Blak	40 52 00	693(232)	73 55 30	506(197) 20'		Blkpole in newlyfilled area
46. Box	40 52 00	905(20)	73 55 30	330(383)		wh.telephne box E NYC RR. (Dyckman St)