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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State. New York-New Jersey

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DESCRIPTIVE REPORT.

Topographic Sheet No. "D" 4559

LOCALITY:

Hudson River Project #66.

Hastings to Irvington

1930

CHIEF OF PARTY:

C. A. Egner, H. & G. E.

4559

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4559

h 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. "D"

REGISTER NO. 4559

State New York-New Jersey

General locality Hudson River

Locality Hastings to Irvington, N. Y.

Scale 1/5000 Date of survey October, 1930

Vessel M. V. Natoma

Chief of Party C. A. Egner

Surveyed by J. C. Tison, Jr. Aid

Inked by J. C. Tison, Jr. Aid.

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

Contour, Approximate contour, Form line interval --- feet

Instructions dated July 22, Sept. 25, 1930

Remarks: The fourth of five on Project #66.

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET " D "

HUDSON RIVER -- HASTINGS TO IRVINGTON, N. Y.

AUTHORITY:

This survey was made under the Director's orders dated July 22, 1930.

EXTENT:

A resurvey of the Hudson River shoreline from Hastings to Irvington, N.Y. on the East shore of the River, and from Forest View Park, in New Jersey, to Piermont Pier, in New York, on the West shore. This sheet is joined on the south and north by topographic sheets "C" and "E" respectively.

GENERAL DESCRIPTION:

The West shore of the Hudson River from Forest View Park northward to Snedens Landing consists of a sheer rocky cliff, known as the Palisades, and rising abruptly from the river to a height of about 400 feet at a distance of from 50 to 200 meters inshore. Northward to the New York - New Jersey State line the face of this cliff is covered with numerous rock slides and trees and north of the line is densely wooded. At Snedens Landing the cliff begins to bear westward and becomes less steep; having the appearance of a gentle bluff or hill. Just north of Snedens Landing a marsh begins to parallel this bluff, and forms the west shore of the river up to Piermont Pier. The marsh consists of a tall grass growing in firm black mud, and only its outer edge is covered at high water. Several small and shallow creeks run back into this marsh, but were only located at their mouths.

Near the southern end of the marsh a long pier belonging to the Standard Oil Co. of N. Y. sticks out into the river. It is commonly known as "Socony Pier", and consists of a wooden bulkhead filled in with sand, gravel, and rocks to support several large pipe lines.

Between Socony and Piermont Piers is a long narrow wooden dock on piles, originally built for loading rocks from the quarry just south of Taulmans Hill. This quarry has recently been condemned by the State of N.Y., however, and taken over as a part of Palisades Interstate Park.

The dock and all buildings on shore now belong to the State of New York.

Piermont Pier is used entirely as a ferry landing by the Irvington-Piermont Ferry Co., and has no facilities for docking of ships other than the ferry boats.

The H.W.L. on the West side of the River is mostly regular and rocky. Where the marsh formed the West shore it's outer edge was located and no attempt made to locate the high water line on the marsh.

The East shore of the river is paralld by the N.Y. Central R.R. tracks, which are electrified, and immediately East of these tracks begins to rise a continous line of rolling hills from 200 to 300 feet high. Small towns occupy these hills at intervals and large estates line the river. The high water line is very regular, where not broken by docks, and consists of a 3 foot wall of rocks. There are numerous indrustal plants along this shore of the river, and in most cases theybare located on filled areas West of the N.Y. Central R.R. tracks, which form large docks sticking out into the river.

SURVEYING METHODS:

The three point fix and resection methods were used entirely on this topographic survey, and all topographic signals were either located or checked by numerous cuts. This sheet caused considerable trouble because of contraction in it's length before it was completed, but the distortion was allowed for as recommended in the Topographic Manual. The contraction of the sheet was especially noticeable in the early morning but seemed, practically disappear toward afternoon.

LANDMARKS:

All landmarks are listed and described on form 467 "Landmarks for Charts" and will be submitted in connection with the control for air photographs of this area.

CHANGES IN SHORE LINE AND OTHER CHANGES:

The shoreline of this area appears to have undergone no noticeable change, except where new docks have been built on the East shore of the river.

Just north of the American Brass Co. docks at Hastings a new dock has been recently built by filling in, and the same procedure has been followed just north of the Dobbs Ferry Railroad Station.

The Ferry landings at Irvington and on Piermont Pier seem to be recent constructions, and all of the railroad tracks have been torn off of Piermont Pier to give way to an automobile road.

The pier just south of Piermont is new and well constructed of treated timbers. At present it is not in use and is owned by New York State.

STATISTICS:

Statute miles of shoreline surveyed	- - - -	11.1
" " " railroads	" - - - -	4.0
" " " roads	" - - - -	1.2
Area surveyed	- - - - -	12.8 sq. mi.

Respectfully submitted,

J. C. Tison, Jr.

J. C. Tison, Jr.
Aid, C. & G. Survey.

Approved and forwarded;

C. A. Egner
C. A. Egner,
Commanding M.V. NATOMA.

LANDMARKS FOR SHEET " D "

AS SHOWN ON AERIAL PHOTOGRAPHS

DESCRIPTION	METHOD OF LOCATION	PHOTO NO.
<u>East side of River</u>		
✓ Square tower on red house	Photograph	15 - 103
✓ Electric sign on Club House	"	15 - 103
✓ Two stacks, water front	Topography	15 - 103
✓ Chimney, S. Hastings	Triangulation	15 - 103
✓ No	Topography	15 - 103
✓ Brass	Triangulation	15 - 104
✓ Stack, near Brass	Topography	15 - 104
✓ Low steel reservoir	"	15 - 104
✓ Yellow apartment	Photograph	15 - 106
✓ City Hall, red and white	"	15 - 106
✓ Power house, red and white	"	15 - 107
✓ Grey house, slate roof, 3 chimneys	"	15 - 108
Barrow Manor	"	15 - 108
Large red brick apartment house	"	15 - 110
Large dark brown brick apartment house	"	15 - 111
✓ Dobbs Ferry R.R. Station	"	15 - 111
✓ Large grey building, black and white cupola	"	15 - 111

DESCRIPTION	METHOD OF LOCATION	PHOTO NO.
<u>East side of River</u>		
✓ Met	Triangulation	15 - 597
✓ Dobb	"	15 - 597
✓ Book	"	15 - 597
✓ Prominent building, red roof	Photograph	15 - 598
✓ Cupola	Topography	15 - 592
✓ Cupola, R.R. Station	"	15 - 592
✓ Stay	"	15 - 592
✓ Square cupola, grey house	"	15 - 590
Tank	"	15 - 589
Irv	Triangulation	15 - 588
Small tank	Topography	15 - 588
Clock	Triangulation	15 - 588
✓ Black	"	15 - 138
✓ Municipal Building, cupola	Photograph	15 - 140
✓ Red Cupola	"	15 - 140
<u>West Coast</u>		
White house	"	14 - 305
Brown stucco house	"	14 - 305
5 White cylinders (at Δ SIL)	"	14 - 317
Observation Post	"	15 - 182
House, many chimneys	"	14 - 325

Page 3, Landmarks for sheet "D", as shown on Aerial photos.

DESCRIPTION	METHOD OF LOCATION	PHOTO NO.
<u>West Coast, con't</u>		
White house, gable shows to river	Photograph	14 - 325
(O OIL) Twin stacks, Standard Oil Farm	Topography	14 - 327
Steeple, 1st. Reformed Church	Photograph	14 - 332
Large paper mill with 7 stacks	"	14 - 334
Summer house	Topography	14 - 301
⊙ CAN, white chimney on dark frame house	"	14 - 305
⊙ BLACK	"	14 - 307
⊙ HOU	"	14 - 307
⊙ DOC	"	14 - 316
⊙ CRAP	"	14 - 319

C. A. Egner
C. A. Egner,
Chief of Party,
M. V. NATOMA

LIST OF TOPOGRAPHIC STATIONS ON SHEET "D" - HUDSON RIVER

EAST SHORE

NO	STATION	LAT.	D.M.	LONG.	D.P.	HEIGHT	DESCRIPTION AND REMARKS
1.	Ong	40 59' 00"	57 (868)	73 53' 00"	260 (441)		White wash on rocks
✓ 2.	An	" " "	577 (348)	" " "	241 (460)	130'	Yellow brick stack at the Zinsser Co. chemical plant
✓ 3.	Square	" " "	641 (284)	" " "	187 (514)	60'	Square red brick stack at Zinsser Co. plant.
✓ 4.	Na	" " "	672 (253)	" " "	174 (527)	50'	Black tank at Zinsser Co. plant near N. property line.
✓ 5.	Bl	" " "	766 (159)	" " "	245 (456)	150'	Yellow brick stack South end of American Brass Co. plant.
✓ 6.	Stack	40 59' 30"	245 (680)	" " "	240 (461)	150'	Yellow brick stack in brick yard between N & S portions of American Brass Co. plant.
✓ 7.	Lop	" " "	436 (489)	" " "	291 (410)	20'	Flagpole in center front of American Brass Co. building
✓ 8.	Flag	" " "	420 (505)	" " "	49 (652)	50'	Flagpole on hill East of N.Y.C. R.R. and directly back of American Brass Co. plant.
✓ 9.	Chim	" " "	787 (138)	" " "	28 (673)		North chimney on red roof stucco house - on hill side E. of N.Y. Central R.R.
✓ 10.	Wash	41 00' 00"	11 (914)	" " "	98 (603)		Whitewash on rock
✓ 11.	Boy	" " "	276 (649)	" " "	76 (625)		Whitewash on concrete pedestal of R.R. overpass.
✓ 12.	Yel	" " "	484 (441)	" " "	39 (662)		Yellow box on west side of steel R.R. signal arm.

* This is apparently S.S. Hartwig's chim. 1898
 No topog. sta. is shown
 on the topographic sheet
 B.G. Jones

NO	STATION	LAT.	D.M.	LONG.	D.P.	HEIGHT	DESCRIPTION & REMARKS
✓ 13.	Pow	41 00' 30"	56 (869)	73 52' 30"	573 (128)		S.W. corner of small red brick power house W. of R.R. tracks.
✓ 14.	Load	" " "	342 (583)	" " "	550 (151)	60'	Wooden loading crane in lumber yard at Dobbs Ferry.
✓ 15.	Lag	41 01' 00"	40 (885)	73 52' 30"	256 (445)	20'	Flagpole on Methodist Book Concern plant
✓ 16.	Kin	" " "	450 (475)	" " "	263 (438)		N.W. corner small brick power house W. of R.R. tracks
✓ 17.	Pol	41 01' 30"	104 (821)	" " "	122 (579)	50'	Flagpole on white house near power plant at Ardsley.
✓ 18.	Stay	" " "	136 (789)	" " "	137 (564)	100'	Red brick stack on power plant at Ardsley-on-Hudson
✓ 19.	Tin	41 00' 30"	559 (366)	" " "	401 (300)		Small tin house on dock N. of Dobbs Ferry
✓ 20.	Cup	41 01' 30"	194 (731)	" " "	95 (606)	50'	Taller green tipped cupola on Ardsley Inn.
✓ 21.	Road	" " "	238 (687)	" " "	160 (541)	20'	Green tipped cupola on Ardsley R.R. Station
✓ 22.	Ale	" " "	455 (470)	" " "	243 (458)	30'	Flagpole on outer end of old private boat dock.
✓ 23.	Day	" " "	735 (190)	" " "	121 (580)		Whitewash on rock
✓ 24.	Tow	" " "	861 (64)	73 52' 00"	526 (175)	20'	Tower on large grey stone house
✓ 25.	Ro	41 02' 00"	91 (834)	73 52' 30"	38 (663)		Whitewash on rock
✓ 26.	Ton	" " "	413 (512)	73 52' 00"	531 (170)	60'	Black tank back of Turner Lumber Yards. Irvington N.Y.
✓ 27.	Red	" " "	731 (194)	" " "	656 (45)	40'	Red wooden tank at plant of Lord & Burnham Co. Irvington, N.Y.
✓ 28.	Cra	" " "	833 (92)	" " "	690 (11)	20'	Wooden loading crane on Lockwood & Pateman Gravel dock

WEST SHORE HUDSON RIVER


NO	STATION	LAT.	D.M.	LONG.	D.P.	HEIGHT	DESCRIPTION & REMARKS
* 105 648							
29.	Crap	41 02' 30"	(820)	73 53' 30"	(53)		Small yellow house south side Piermont Pier.
30.	Mon	" " "	106 (819)	" " "	499 (202)	40'	Flagpole at N.E. corner Piermont Ferry Pier.
31.	Pil	" " "	56 (860)	" " "	447 (254)	10'	Dolphin south of Piermont Ferry slip.
32.	Mud	41 02' 00"	538 (387)	73 54' 00"	681 (20)		White banner
33.	But	" " "	281 (644)	" " "	507 (194)		White banner on dock
34.	Doc	" " "	186 (739)	73 53' 30"	541 (160)	30'	N.E. corner wooden frame on quarry dock south of Piermont.
35.	It	41 01' 30"	776 (149)	73 54' 00"	401 (300)		White banner
36.	Do	" " "	400 (525)	" " "	301 (400)		White banner
37.	You	41 01' 00"	920 (05)	" " "	249 (452)		White banner
38.	Pod	" " "	629 (296)	" " "	216 (485)		White banner
39.	Hou	" " "	222 (703)	" " "	261 (440)		S.E. corner wooden shack
40.	Sig	41 02' 30"	03 (922)	" " "	491 (210)		Sign board west of Piermont Ferry Road
41.	Oil	41 01' 00"	94 (831)	73 54' 00"	484 (217)	80'	East shack at Socony Oil Co. plant on top of Palisades.
42.	Con	" " "	108 (817)	73 53' 30"	512 (189)		Trespassing sign on S. side Socony Oil Pier.
43.	Black	" " "	110 (815)	" " "	402 (299)		Small shack on Socony Oil Pier.
44.	End	" " "	43 (882)	" " "	399 (302)		Sign board on S. end Socony Oil Pier.
45.	Tree	41 00' 30"	600 (325)	73 54' 00"	338 (363)		White banner on tree

NO	STATION	LAT.	D.M.	LONG.	D.P.	HEIGHT	DESCRIPTION & REMARKS
46.	Nor	41 00' 30"	385 (540)	73 54' 00"	304 (397)		S.E. corner of small private garage.
47.	Can	" " "	105 (820)	" "C "	258 (443)		White chimney on dark frame house
48.	Al	41 00' 00"	773 (152)	" " "	237 (464)		Whitewash on rock
49.	Old	" " "	630 (295)	" " "	299 (402)		Old wooden frame at H.W.L.
50.	How	" " "	365 (560)	" " "	292 (409)		S.E. pillar of white summer house.
51.	White	" " "	122 (803)	" " "	275 (426)		White cloth on top of old summer house.
52.	My	40 59' 30"	211 (714)	" " "	257 (444)		White wash on rock
53.	Pat	40 59' 00"	920 (05)	" " "	326 (375)		Whitewash on rock
54.	Oh	" " "	570 (355)	" " "	433 (268)		Whitewash on rock
55.	Men	" " "	188 (737)	" " "	477 (225)		Whitewash on rock, not recoverable.

C. A. Egner
C. A. Egner,
Chief of Party,
Commanding M. V. NATOMA.

LANDMARKS ON WEST SIDE OF HUDSON RIVER, PIERMONT AND
NORTHWARD.

DESCRIPTION	METHOD OF LOCATION	PHOTO NO.
Mont	Triangulation	15 - 350
Pyramid	"	15 - 375
Pif	"	15 - 375
Red	"	15 - 375
Steeple , Nyack	"	15 - 375
Nyack	"	15 - 375
Obelisks	Photograph	15 - 222
Cupola on Jewish Hospital	"	15 - 225


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