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U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: New York

DESCRIPTIVE REPORT

Topographic
~~Hydrographic~~

Sheet No. "A" 4699

LOCALITY

Hudson River, Piermont ~~to one mile~~
north of Nyack.

1932

CHIEF OF PARTY

C. A. Eger

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET NO. "A"

HUDSON RIVER, NEW YORK

INSTRUCTIONS:

This Project, known as 108, begins where Project 66 left off in 1930. No Instructions were issued and, where practicable, Project 66's Instructions were followed since the two surveys were carried on in a similar manner.

METHOD:

The usual plane-table methods of survey were used. All topographic signals were located by cuts from triangulation stations with the exception of those north of Nyack on the west side of the river. The latter have two cuts from a triangulation station and a resection on a third. Most of the shore line on the west side of the river south of Nyack and all of it on the east side was located by traverse which closed within the allowable limits.

EXTENT:

This sheet comprises a survey of the shore line of the west side of the river from the Piermont-Irvington ferry slip to a point approximately one mile north of Nyack. A short section of shore line of the east side of the river, extending from Kingsland Point Park to a point approximately one mile and a quarter north, is included. The outlines of a dump at Tarrytown, New York, whose limits have changed considerably since the 1930 survey, are also shown.

DESCRIPTION:

The west bank of the river is thickly populated throughout the limits of the sheet. There are numerous breakwaters, small piers, and bulkheads along the entire section, and it is comparatively free of rocky formations. The east bank is less thickly populated and is composed of a rocky formation throughout the section. Several minor changes in the shoreline were noted which occurred after the aerial photographs of 1930 were taken.

AERIAL PHOTOGRAPHS:

Since the area covered by this sheet has been photographed aerially, no attempt was made to secure details back from the shore line. However, prominent objects some distance from the shore line were located and spotted on the aerial photographs to assist in their reduction.

CONTROL:

The control for this sheet consists of second, third, and fourth order triangulation brought forward from that completed in 1930 under Project 66. Triangulation stations PIER, PIER-MONT, and TARRYTOWN LIGHT HOUSE are of second order accuracy. Stations YARD, WHARF. BANK, MILE, KING, and LAND are of third order accuracy, and the remaining stations are of fourth order accuracy.

NEW NAMES:

No new names appear on this sheet.

MAGNETIC DECLINATION:

A magnetic meridian was determined by declination at triangulation station BANK. An attempt was made to secure another at triangulation station PIER, but piles of scrap iron nearby deflected the needle of the declinator and made the determination worthless. However, there is a magnetic meridian determined at triangulation station DOC on topographic sheet "E", Project 66, 1930.

ALUMINUM BACKED SHEETS:

An aluminum backed sheet was used on this survey and found to be satisfactory in every respect. It is recommended that such sheets be used exclusively in the future.

LANDMARKS:

Landmarks of sufficient prominence for charting purposes are included with this report on Form 567.

STATISTICS:

Area--in square statute miles	6.0
Statute miles of high water line	6.9
Statute miles of creeks and roads	4.0

Respectfully submitted,

J. T. Garman
J. T. Garman,
Aid.

Approved and forwarded,

C. A. Egner
C. A. Egner,
H. & G. Engineer,
Chief of Party.

REVIEW OF TOPOGRAPHIC SURVEY No. 4699

Title (Par. 56) *Piermont Pier to Nyack, Hudson River, New York*Chief of Party *C. A. Egner* Surveyed by *J. J. Jarman* Inked by *J. J. Jarman*Ship *Natoma* Instructions dated *May 25, 1932* Surveyed in *July-Oct. 1932*

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 determined
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) *None shown*
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 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. ~~The~~ ^{No} descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of IMs and DPs, 68.) *List of topo signals included in Desc. Rep.*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *Filed as letter 86/1933* ✓
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) ✓
18. The geographic datum of the sheet is *North American* and the reference station is correctly noted. (Par. 34.) ✓
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, Jan. 5, 1934.*

Examined and approved:

K. T. Adams
Chief, Section of Field Records

L. O. Robert
Chief, Division of Charts

J. S. Borden
Chief, Section of Field Work

G. Weide
Chief, Division of Hyd. and Top.

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SIGNALS LOCATED BY TOPOGRAPHY, SHEET "A", HUDSON RIVER

NAME	LATITUDE		LONGITUDE		DESCRIPTION
	°	' meters	°	' meters	
Sand	41-02	1079 (772)	73-53	1146 (255)	Red topped sand and gravel loader.
Shed		969 (882)	73-54	763 (638)	NE corner of long low building at Rob't Gair Co.
Stak. ✓		909 (942)		1273 (128)	Most western black metal stack, Rob't Gair Co. Paper Mill. ✓
Rek		1153 (698)		1265 (136)	N.R.
Cup ✓		1151 (701)	73-55	95 (1306)	Square white cupola on western end of church. ✓
Back		1225 (626)		257 (1144)	Conical-shaped cupola on church. ✓
Bus ✓		1306 (495)		52 (1349)	Frustrum-shaped cupola on Knights of Columbus building. ✓
North		1379 (422)		120 (1281)	N. flagpole on yellow building.
Sim ✓		1482 (369)		630 (771)	Stone vault marked "Williams 1905" in cemetery on hill back of Piermont. ✓
Marble		1357 (494)		649 (752)	Slender marble monument in cemetery back of Piermont. ✓
East		1649 (202)		171 (1230)	East gable of small brown house.
Stuc	41-03	77 (1774)		212 (1189)	East gable of yellow stucco house.
Sky		248 (1603)		199 (1202)	Center of small house on end of pier.
Broke		416 (1435)		237 (1164)	N.R.
Jew ✓		428 (1421)		543 (858)	Red square cupola on Jewish Community Home. ✓
Wrap		897 (954)		268 (1133)	N.R.

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NAME	LATITUDE	LONGITUDE	DESCRIPTION
	° , meters	° , meters	
Nob	41-03 1182 (669)	73-55 251 (1150)	Banner on extreme NE corner of dock.
Wire	1407 (444)	323 (1078)	Center of small red boathouse on pier.
Rag	1621 (230)	366 (1035)	N.R.
Lice	1832 (19)	³⁰⁸ 208 (1193) ¹⁰⁹³	Banner on extreme SE corner of pier.
Po	1846 (05)	352 (1049)	North chimney of large brown house. ✓
Cone	1636 (215)	637 (764)	Conical-shaped cupola on dwelling. ✓
Off	41-04 116 (1735)	340 (1061)	N.R.
Roof	340 (1511)	320 (1081)	White flagpole on green roof of summer cottage.
Hill	449 (1402)	837 (564)	Square white cupola on dwelling. ✓
Sum	571 (1280)	301 (1100)	Center of red roof of summer cottage.
Boat	776 (1075)	262 (1139)	East gable of white boathouse on pier end.
Turn	1025 (826)	119 (1282)	N.R.
Peak	1465 (386)	73-54 1400 (01)	Roof peak of tall summer house.
Dome ✓	1671 (180)	1376 (25)	Peak of red dome on dwelling. ✓
Bras	41-05 51 (1800)	73-55 30 (1371)	White flagpole tipped with brass ball.
Tip	63 (1788)	73-54 1397 (04)	Center of green roof, house on pier end.
Side	173 (1678)	73-55 79 (1322)	White flagpole on NE corner of dock.

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NAME	LATITUDE	LONGITUDE	DESCRIPTION
	"	"	
	° ' meters	° ' meters	
Pole ✓	41-05 551 (1300)	73-55 74 (1327)	White flagpole near World War Honor Roll monument, Nyack, N. Y.
Up	624 (1227)	73-54 1293 (108)	Unpainted flagpole on top of old yacht building.
Gas	819 (1032)	1340 (61)	Center of upright gas tank. ✓
Soc	1058 (793)	1296 (165)	Center of upright gas tank with legend "Socony". ✓
Ban	1233 (618)	1201 (200)	N.R.
Tin	1303 (548)	1332 (69)	East gable of small tin house.
Top	1573 (278)	1281 (120)	Center of small house on pier end.
Cen	1790 (61)	1271 (130)	Center of small house on pier end.
Edge	331 (1520)	73-55 119 (1282)	SE corner of flat-topped white house at water's edge.
Store ✓	970 (881)	107 (1294)	Square cupola on brick building with legend "Nyack Storage Co." ✓
Hot ✓	41-04 1698 (153)	959 (442)	Center East gable on Missionary Institute. ✓
Pete ✓	41-06 89 (1762)	73-54 1205 (195)	East edge of double sign board at Julius Petersons Boat Yard.
Tall ✓	287 (1564)	1233 (167)	Tall two-section flagpole on NE corner of pier.
End ✓	41-05 620 (1231)	73-52 600 (801)	North end of breakwater. ✓
Pile	896 (955)	517 (884)	N.R.
Gabe	1280 (571)	382 (1019)	West gable of clubhouse. ✓
Bol	1592 (259)	295 (1106)	N.R.

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NAME	LATITUDE	LONGITUDE	DESCRIPTION
	"	"	
	o ' meters	o ' meters	
Pow ✓	41-06 (1677)	73-52 (1155)	SW corner of brick power house. ✓
Sign	796 (1055)	95 (1305)	"Sleepy Hollow Manor" sign board.
Stone	964 (887)	148 (1252)	N.R.
Yacht	83 (1768)	73-54 (110)	Skylight in building at Julius Petersons Boat Yard.
Black	41-05 (51)	73-52 (1202)	Small black metal stack. ✓
Vine	1140 (711)	193 (1208)	Vine covered chimney at west end of house. ✓

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T- 4699

LANDMARKS FOR CHARTS

Norfolk, Va.

December 9, 1932, 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.

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

Chief of Party.

DESCRIPTION	POSITION					DATUM	METHOD OF DETERMINATION	CHARTS AFFECTED	
	LATITUDE		LONGITUDE						
	°	'	D. M. METERS	°	'				D. P. METERS
NE corner of long low <u>SHED</u> at Rob't Gair Mfg. Co.	41	02	969	73	54	763	N.A.	Topo.	281
Stone vault with gable roof, hill back of Piermont. Sim	41	02	1482	73	55	630	"	"	281
Red sq. cupola on Jewish Community Home. <u>o</u> Jew	41	03	428	73	55	543	"	"	281
Large sq. wh. cupola on dwelling, hilltop. <u>o</u> Hill	41	04	449	73	55	837	"	"	281
East center gable on large hotel-like bldg. on top of hill. Hot	41	04	1698	73	55	959	"	"	281
Gold ball on apex of red pyramid surmounting bell tower. PYRAMID	41	05	306.9	73	55	287.8	"	Triang.	281
Tall yellow brick stack. PIF	41	05	556.6	73	55	333.8	"	"	281
Square red brick clock tower. <u>Δ</u> RED	41	05	785.8	73	55	201.4	"	"	281
Clock tower on Nyack school bldg. <u>Δ</u> NYACK	41	05	1377.1	73	55	537.2	"	"	281
TARRYTOWN LIGHT HOUSE Bronze cross on dark blue spire of red tower. <u>Δ</u> POPE	41	05	24.4	73	51	1214.7	"	"	281
Silver steel water tank at Fisher Body Works.									
<u>Δ</u> FISH	41	05	385.8	73	52	441.5	"	"	281

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, 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 of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaves and like objects are not sufficiently permanent to chart.

Applied (in part) to Chart Correction 748. 1.0.14/37. H.E. MacEwen