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U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

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FORM 504 Ed. June, 1928 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R.S. Petton., Director	
State: New Jersey	
DESCRIPTIVE REPORT Topographic Sheet No. A	
LOCALITY	
Sherk River,	
Avon by the Sea.	.
19 33	<u></u>
OHIEF OF PARTY	
Philip C. Doran	
Q. A. GOVERNMENT PRINTING OFFICE: 1434	<u></u>

applied to drawing of Chart No 1215

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DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET "A"

SHARK RIVER, NEW JERSEY

AUTHORITY

work was done under Director's order and instructions dated Feb. 10,1933.

LIMITS This sheet covers the shore line of Shark River, Shark River Inlet and the Atlantic Seaboard for a distance of one half mile north and south of the inlet. On the outer coast the shore line extends from $40^{\circ}-10.7^{\circ}$ to $40^{\circ}-11.9^{\circ}$. In an east and west direction the area covered is from $74^{\circ}-1.5^{\circ}$ to $74^{\circ}-3.0^{\circ}$.

No attempt was made to locate houses or streets as aerial photographs have been taken of this area. Definite objects were located to furnish control for the photographs and for hydrography.

GENERAL DESCRIPTION

Shark River is made up of a channel, bulkheaded on both sides, extending one half mile westward from the Atlantic Ocean and a wide shallow bay, Y shaped, extending to the north and west from the westerly end of the channel.

On either side of the inlet large stone and concrete jetties extend about 150 meters into the Atlantic Ocean.

A concrete bridge with a 50 foot clear draw span is located at the mouth of the river.

The old highway and trolley car bridges which connected the main streets of Avon and Belmar are being removed and a new concrete bridge, with a lift-epan, is being built on the sites of the old bridges.

A wooden trestle bridge carries the railroad tracks over the river just east of the two concrete highway bridges on the main'Neptune Highway'road. The southerly of these bridges has a lift baseule span but has no motor at this time.

The flat sand area just to the west of the innermost concrete highway bridges is used, mostly in summer, for an airplane landing field.

A realty development company, Shark River Hills Co., Inc., has bulkheaded and filled in the area on the west side of the easterly arm of the bay.

LANDMARKS

Various water tanks were located by triangulation and can be put on the charts for use from seaward. The positions have been computed and adjusted in the office and are on file there, together with complete descriptions.

CHARACTER OF CONTROL USED

A small scheme of triangulation was observed to give control and cover this area. A quadrilateral of 2nd order accuracy was observed using the 1st order line Observatory 2-Electric as a base.

Numerous stations of 3rd order accuracy were then established along the river to furnish direct control for topography and hydrography. Traverse lines were run between these closely spaced stations. Cuts from three or more triangulation stations were taken to prominent water tanks and the positions computed.

All triangulation is on the North American 1927

datum.

CLOSING ERRORS OF TRAVERSES

The topography was done on the new, paper covered aluminum topographic sheet. Despite large changes in temperature and varying weather conditions, the projection, which was made on this sheet in the Washington office before the field work started, showed no distortion. This is the great advantage of this sheet over the old Whatman sheet. All traverses run between triangulation station closed well within the limits as prescribed in the topographic manual and were adjusted as described therein. Standard practice was used throughout the sheet.

MAGNETEC OBSERVATIONS

No magnetic observations were made as ample data is on hand for this area.

STATISTICS

Respectfully submitted.

Mily C. Dovan.
Philip C. Dovan.
H and G. Eng.

DESCRIPTION OF NATURAL OBJECTS LOCATED BY

TOPOGRAPHY AND MAY BE RECOVERABLE FOR FUTURE WORK.

MAC Southerly of four large radio towers.

RAD Second tower from the south end.

NED Green roofed summer pavilion.

PAR Small summer pavilion.

CON. N.W. corner of concrete bulkhead with high wire fence on top.

LET Small flagpole.

WHY Large white door in side of bank.

HAT Coast Guard house inside inlet.

GAT Watch tower at drawbridge at Ocean Ave..

UP Small summer pavilion.

STA Similar to UP.

DUB Cupola with double windows on large house..

MON End of pier.

HOT Main entrance to hotel.

EGG S.E. corner of house on beach.

NEW Very large flagpole- outlet for septic tank.

This list is made part of the topographic and hydrographic descriptive reports to accompany sheets covering the Shark River, New Jersey, area.

DESCRIPTIONS AND POSITIONS OF NATURAL OBJECTS TO ACCOMPANY TOPOGRAPHIC SHEET T-4747

STATION	DESCRIPTION	POSITION				
		0	••	.	meters	
UP	Small summer pavilion	40 74	11 00	56.4 28.2	1740.8 686.6	
STA	Similar to UP	40 74	11 00	49.4 31.3	1522.3 739.8	
DUB	Cupola with double windows on large house	40 74	11 00	29.1 38.4	898.9 905.3	
MON	End of pier	40 74	11 00	06.9 31.1	212.4 744.7	
нот	Main entrance to hotel	40 74	11 00	03.4 42.1	75. 3 996.9	
EGG	S. E. corner of house on beach	40 74	10 00	51.6 44.2	1591.0 1045.3	
NEW	Very large flagpole - outlet for septic tank	40 74	10 00	43.2 48.9	1331.3 1157.5	

DIVISION OF CHARTS, FILE NO.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

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DIRECTOR, U. S. COAST AND GEO	DETIC SHE	·		8		<i>E</i>	lugust 31	. , 1933.
The following determined escription given below, and sh	objects ar	re prominer	ıt, ca	n be	readily di	()(A)	ed from se	n.
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			POSI	rion .				
DESCRIPTION	LATI	LONGITUDE				METHOD OF DETER-	CHARTS AFFECTED	
•	D I	D. M. METERS	0	1	D, P. METERS	DATUM	MINATION	
Allenhurst Tank. Tall silver tank.	40 14	192.0	74	00	723.5	N.A.192	7 🛆	1215
Monterey Hotel. Cupola of hotel.	40 13	1068.3	73	59	1374.2	19	۵	ti
Avon Tank. Large black water tank.	40 11	1146.3	74	01	504.2	ŧĵ	Δ	ti
Spring Lake Heights tank. Tall water tank.	40 \(\dot{8} \)	1401.2	74	02	324.1	19	۵	tt
Squat tank. A squat tank with 100 m of	40 08	1413.1	74	02	269.5	11	Δ	11
Spring Lake tank.								
As all of the above			ted	by t	riangula	tion co	nplete de	scriptions
are on hand in the office	e files				•			,
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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 indentification. 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. sufficiently permanent to chart. U. S. GOVERNMENT PRINTING OFFICE: 1931

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY



LANDMARKS FOR CHARTS

			Wee!	lų	ton	D.C. Aug	. 31,198	3		102
DIRECTOR, U. S. COAST AND GE	OD ET I	c Sur	EVEY:		<u>.</u>					, 193
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DESCRIPTION	LATITUDE			LONGITUDE				METHOD OF DETER-	CHARTS AFFECTED	
	•	1	D. M. METERS	0	ì	D. P. METERS	DATUM	MINATION		
Allenhurst Tank. Tall Bilver tank.	40	14	192.0	74	02	723.5	F. A. 1927		1215	/
Monterey Hotel.Cypola of hotel.	40	_13_	1068.3	73	59	1374.2	п	Δ.	98	ν
Avon Tank. Large black water tank.		_11_	1146.3	74	_01	504.2	n	4	Ħ	· · · · · · · · · · · · · · · · · · ·
Spring Lake Heights tank. Tall water tank.	40	08	1401.8	74	_02	324.1		△	79	√
Squat tank. A squat tank with in 100 m of Spring Laitank.	k te 1	0-08	1413.1	74	02	269.5	n	Δ	**	
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Form 537a Ed. Nov., 1929

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

LIBRARY AND ARCHIVES	Party.
SEP 1 1933	0
Acc. No.	47

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. 4747	
State New Jersey		
General locality. Atlant	tic Coaston by the fee.	
Locality Shark	River and Vicinity	
Scale 1: 10,000 Da	te of survey Fab-Mar. ,	19.33
Vessel Shora Party		
Chief of party	Philip C. Doran.	
Surveyed by	Philip C. Doran.	
Inked by	Philip C. Doran.	
Heights in feet above	to ground to tops of	trees
Contour, Approximate co	ntour, Form line intervalf	eet
Instructions dated	Feb. 10,,	193
Remarks:		