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- Graphic Control

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. "A" & "B"

State New Jersey

LOCALITY

Barnegat Bay

a Mosquito Cove

b Tilton Point to Swan Point

1935

CHIEF OF PARTY

Jack C. Sammons

U. S. GOVERNMENT PRINTING OFFICE: 1934

Graphic Control

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

REG. NO.

TOPOGRAPHIC TITLE SHEET

NOV 20 1935

Acc. No. _____

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.

State New Jersey

General locality Barnegat Bay
Inland waters of New Jersey

Locality Mosquito Cove
Barnegat Bay

Scale 1 : 10,000 Date of survey May, 1935

Vessel Shore Party No. 2.

Chief of party Jack C. Sammons

Surveyed by H. J. Bozzo

Inked by J. C. Sammons

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

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

Instructions dated May 16,, 1935

Remarks: _____

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

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TOPOGRAPHIC TITLE SHEET

NOV 20 1935

Acc. No.

REG. NO.

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. "B"

REGISTER NO.

State New Jersey

General locality Barneget Bay
~~Inland waters of New Jersey~~

Locality ~~Barneget Bay~~ Swan Tilton Pt to Swan Pt.

Scale 1:10 000 Date of survey May, 1935

Vessel Shore Party No. 2.

Chief of party Jack C. Sammons

Surveyed by H. J. Bozzo

Inked by J. C. Sammons

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

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

Instructions dated May 16, 1935

Remarks:

DESCRIPTIVE REPORT TO ACCOMPANY GRAPHIC CONTROL SHEETS 'A' and 'B'.

LIMITS OF SHEETS

Geographic control sheets 'A' and 'B' are on opposite faces of the same aluminum mounted sheet. The eastern edge of sheet 'A' overlaps the western edge of sheet 'B'. Together the two sheets cover the northern end of Barnegat Bay, Kettle Creek and Mosquito Cove. They extend from Lat. $39^{\circ}-58.5'$ to Lat. $40^{\circ}-02.2'$ and from Long. $74^{\circ}-03'$ to Long. $74^{\circ}-09'$. These sheets form the northern limits of this project and join on to Sheet 'C' at the southern limits.

SURVEY METHODS

A photographic compilation of this area had been completed before the topography was begun. These Graphic Control Sheets were executed in order to furnish control for the hydrographer and to locate additional points for checking the photographic compilation. In the inside waters where the shore line changes but little, small patches of shore line were rodged in at each set-up. Along the outside coast where the shore line is more subject to changes, the shore line was rodged in so as to show changes which may have occurred since the photographs were taken. Only standard methods were used in this work.

CONTROL

A decided effort was made to recover and co-ordinate all control points which fall within the area covered by these sheets.

All old triangulation stations were plotted on the sheets and searched for by the topographer. The old stations which were searched for but could not be found, are shown on these sheets in pencil and should be considered lost. The control for these sheets consists of numerous old recovered triangulation stations and new stations established by this party with second order accuracy. In addition to these triangulation stations there are numerous stations located and described by the Photo Compilation Party. These stations were not considered as control points until after their position had been verified by the topographer.

TRAVERSES

On Sheet 'B' a traverse was run from station Mantoloking along the outside beach to signal Guyer. All distances were ~~charted~~ ^{chained} and checks were made at Stations Flag, Fish and Chadwick. The position of signal Guyer was determined by a cut from Station Chadwick and a resection on Station Light Stand B. The traverse checked with one meter at each tie-in and no adjustment was made. This traverse was made to locate the high water line and to locate signals for off-shore hydrography.

DISCREPANCIES

The positions of stations "Creek" and "West Gable of Boat House" as determined by the Topographer and by the Photo Compilation Party do not check. On the graphic control sheet the position of Creek was determined by six plane table cuts giving good intersections. The position of this station was determined by the Photo Compilation Party by a single, thin triangle with one angle concluded and a large eccen-

Plane table positions accepted as correct.
5/21/36 Baggins

tricity at one of the stations at which the angle was observed. It is my opinion the position of the topographer should be accepted as the true position. Signal "West Gable of Boat House" was located by the topographer by five cuts, giving a good intersection. This station was located by the Photo Compilation Party by one Theodolite cut and the photo compilation. The discrepancy is almost along the one theodolite cut. It is my opinion the position as determined by the topographer is correct.

LANDMARKS FOR CHARTS

Attached to, and forming a part of this report are lists of objects which should be charted as land marks for each sheet.

AIDS TO NAVIGATION

Attached to, and forming a part of this report are lists of non-floating aids to navigation which should be charted.

GEOGRAPHIC NAMES

No new names for geographic features shown on these sheets were obtained. All names shown were taken from the chart of this area and appear to be in common usage.

PLANETABLE POSITIONS

On the Graphic Control Sheets all stations located by topography are shown by a small red circle with the station name. All stations which are considered recoverable are described on form No. 524 and the name of the station on the graphic control sheet is followed by the letter 'D'. All recoverable topographic stations previously located by the Photo Compilation Party in this area, are shown as

above with the addition of the date as listed on the description card. All planetable set-ups are numbered and designated on the graphic control sheets by a small square. These numbers and squares are not inked in.

Attached to, and forming a part of this report is a list of all topographic positions located on this sheet. This list includes all set-ups and stations. It shows which stations are described and whether they are marked, natural object, or aid to navigation, also, when they were previously located and how they were located by the topographer.

Descriptions on form No. 524 are submitted for all stations marked 'D' on these graphic control sheets. All description cards, previously made out by the Photo Compilation Party for stations following on these sheets, were taken out of the list submitted by the Photo Compilation Party and added to the descriptions submitted with these graphic control sheets.

CONTENTS

Submitted with Graphic Control Sheets 'A' and 'B' are the following:

- Title Sheet for Graphic Control Sheet 'A'
- Title Sheet for Graphic Control Sheet 'B'
- Descriptive report for Graphic Control Sheets 'A' and 'B'
- List of control points for Graphic Control Sheet 'A'
- List of control points for Graphic Control Sheet 'B'
- 16 Descriptions of Topographic Stations (Form 524) Sheet 'A'
- 19 Descriptions of Topographic Stations (Form 524) Sheet 'B'
- List of Landmarks for sheets 'A' and 'B'
- List of non-floating aids to navigation for sheets 'A' and 'B'

Jack C. Sammons
Lt. Jack C. Sammons,
Chief of Party.

METHOD OF LOCATION OF CONTROL POINTS ON SHEET NO. "A".

SETUP NO.	STATIONS	PREVIOUS LOCATION	CUT IN FROM STATION	RESECTIONS ON STATIONS	ORIENTATION ON STATIONS	DISTANCE FROM STATIONS
✓	APPLE NAT. OBJ. D.	R.C.B. 1934	SEAWEED CATTUS SETUP NO. 8			
✓	AS		SEAWEED SETUP NO. 8 SETUP NO. 9			
✓	BOG M - D	R.C.B. 1934	CATTUS	GREEN GABLE WINDMILL	CATTUS	
✓	BOX		KETTLE IDA PAT SETUP NO. 13	IDA PAT SETUP NO. 13	KETTLE	
✓	CHY Nat. Obj. - D		CATTUS IT SETUP NO. 4 SETUP NO. 5			
✓	COW		PAT SETUP NO. 19 KETTLE	PAT SETUP NO. 19	KETTLE	SETUP NO. 19
✓	CREEK M - D	R.C.B. 1934	NEED IDA KETTLE PAT BOX SEAWEED			
✓	CATTLE		CATTUS DREW			CATTUS
✓	CATTUS M - D	R.C.B. 1934	DREW (CHADWICK)	LIGHT STAND B <i>Bag - Green Gable - Windmill</i>	SEAWEED	
✓	DREW M - D <i>Marsh Shore line here.</i>	J.C.S. 1935		<i>Cattus windmill</i>	SEAWEED	

METHOD OF LOCATION OF CONTROL POINTS ON SHEET NO. "A".

SETUP NO.	STATIONS	PREVIOUS LOCATION	CUT IN FROM STATION	RESECTIONS ON STATIONS	ORIENTATION ON STATIONS	DISTANCE FROM STATIONS
	FATE		CATTUS BOG IT SETUP NO. 4			
	GIN		BOX KETTLE SETUP No. 13 SETUP No. 17			SETUP NO. 17
	GREEN GAB. NAT. OBJ. D	R.C.B. 1934	CATTUS BOG SETUP NO. 5			SETUP NO. 5
	HO <i>Nat. obj. D</i>		KETTLE SETUP NO. 17 SETUP NO. 18			
11	IDA	SHEET " B "	SEAWEED		SEAWEED	
	IKE		SEAWEED KETTLE PAT SETUP NO. 13			
6	IT <i>hummock out</i>		CATTUS SETUP NO. 5 BOG	SETUP NO. 4 SETUP NO. 5	CATTUS	
12	KETTLE M - D	Δ J.C.S. 1935			SEAWEED	
	LIGHT STAND B AID TO NAV. D	J.C.S. 1935				
	MA <i>Nat. obj. - D</i>		SEAWEED NEED IDA KETTLE SETUP NO. 13			

METHOD OF LOCATION OF CONTROL POINTS ON SHEET "A"

SETUP NO.	STATIONS	PREVIOUS LOCATION	CUT IN FROM STATIONS	RESECTIONS ON STATIONS	ORIENTATION ON STATION	DISTANCE FROM STATIONS
	MAG		CATTUS BOG IT SETUP NO. 4			
	MARBLE MON. M - D		NEED			NEED #5 14
10	NEED	SHEET "B"			SEAWEEED	
	OAK		SETUP NO. 17 SETUP NO. 18			SETUP NO. 17 SETUP NO. 18
14	PAT		NEED IDA SETUP NO. 13 KETTLE	NEED IDA SETUP NO. 13	KETTLE	
	PIE Nat. obj. - D		BOG IT SETUP NO. 5			
	RYE		COW KETTLE PAT			COW
	RUM		SETUP NO. 13 SETUP NO. 18			SETUP NO. 18
7	SEAWEEED M & D	R.C.B. 1935 J.C.S. 1935			LIGHT STAND B.	
	W.GAB.BT.H. NAT. OBJ.D.	R.C.B. 1934	BOG DREW SEAWEEED SETUP NO. 5 KETTLE			

METHOD OF LOCATION OF CONTROL POINTS ON SHEET NO. "A"

SETUP NO.	STATIONS	PREVIOUS LOCATION	CUT IN FROM STATION	RESECTIONS ON STATION	ORIENTATION ON STATION	DISTANCE FROM STATION
	WINDMILL NAT.OBJ.D.	R.C.B. 1934	DREW SETUP NO. 5 SETUP NO. 8			
4			BOG	<i>Cattus</i> <i>Windmill</i>	BOG	BOG
5			(on range from CATTUS and GREEN GABLE)	BOG <i>Windmill</i>	CATTUS	GREEN GABLE
8			(on range from APPLE to CATTUS)	LIGHT STAND B	CATTUS	APPLE <i>(Distance by Tape)</i>
9			SETUP NO. 8	LIGHT STAND B	SETUP NO. 8	
13			KETTLE NEED IDA	IDA NEED	KETTLE	
15			NEED SETUP NO. 13	SEAWEED SETUP NO. 13	NEED	
17			KETTLE	SEAWEED	KETTLE	KETTLE
18			SETUP NO. 17		SETUP NO. 17	SETUP NO. 17 OAK
19			KETTLE	SEAWEED	KETTLE	KETTLE
	MIX		KETTLE SETUP NO. 18			SETUP NO. 18
?	E. Chy. Wht. Ho. N. Gab. Grey. Ho. Silverton ME. Ch.	R.C.B. 1935 R.C.B. 1935 R.C.B. 1935	Not Relocated " "			

METHOD OF LOCATION OF CONTROL POINTS ON SHEET "B".

SETUP NO.	STATION	PREVIOUS LOCATION	CUT IN FROM STATIONS	RESECTIONS ON STATIONS	ORIENTATION ON STATIONS	DISTANCE FROM STATION
	BLACK NAT. OBJ. D.		SETUP NO. 6 CHADWICK DREW			
	BRICK NAT. OBJ. D.		CHADWICK FISH LOG MURRAY			
	BEACON NO. 57 AID TO NAV. D.		MANTOLOKING LOG FISH MURRAY			
	BEACON NO. 56 AID TO NAV. D.,.		FISH MURRAY LOG SETUP NO. 8 MANTOLOKING			
2	CHADWICK M - D LAND MARK	C.D.M. 1932 Δ			DREW	
	CROSS NAT. OBJ. D.		FISH LOG SETUP NO. 8 MANTOLOKING			
	60N NAT. OBJ. D.		DREW SEAWEEED FISH			
1	DREW M - D	J.C.S. 1935 Δ			CHADWICK	
	DIM		SETUP NO. 14 SETUP NO. 13 SETUP NO. 12-A			SETUP NO. 14

METHOD OF LOCATION CONTROL POINTS ON SHEET "B"

SETUP NO.	SECTION	PREVIOUS LOCATION	CUT IN FROM STATIONS	RESECTIONS ON STATIONS	ORIENTATION ON STATIONS.	DISTANCE FROM STATIONS
	DIE		SEAWEED FISH DREW SETUP NO.17 LOG			
	DRY		SETUP NO.18			SETUP NO.18
3	FISH M - D	C.D.M.1932 Δ			DREW	
	FLAG M - D LAND MARK	E.R.McC.1934 Δ	SEAWEED MURRAY			
23	GUYER M - D		CHADWICK	LIGHT STAND B.	CHADWICK	
	GREER NAT. OBJ. D.		SETUP NO.11 SETUP NO.12-A			SETUP NO.11
	IDA		SEAWEED FISH NEED CHADWICK			
	KER NAT.OBJ.D.		GUYER			GUYER
	LONE NAT.OBJ.D.		FISH CHADWICK SEAWEED			
5	LOG			* FISH FLAG MANTOLOKING <i>Seaweed</i>	FISH	
				*3 pt. FIX		

METHOD OF LOCATION OF CONTROL POINTS ON SHEET "B"

SETUP NO.	STATION	PREVIOUS LOCATION	CUT IN FROM STATION	RESECTIONS ON STATIONS	ORIENTATION ON STATIONS.	DISTANCE FROM STATIONS
	LIZ NAT.OBJ. D.		SETUP NO.10.			SETUP NO. 10
	LIGHT STAND A AID TO NAV. D	J.C.S. 1935 A				
	LIGHT STAND B AID TO NAV. D	J.C.S. 1935 A				
7	MANTOLOKING M - D	C.D.M.1932 A			SEAWEED	
24	MURRAY NAT.OBJ.D.		FISH	SEAWEED MANTOLOKING	FISH	
25	NEED		DREW FISH CHADWICK SEAWEED		CHADWICK	
	OUT		DREW FISH SEAWEED CHADWICK			
	POLE NAT.OBJ.D.		DREW FISH SEAWEED CHADWICK			
	RED AID TO NAV. Bn. 54 D.		SETUP NO.6 FISH SEAWEED CHADWICK			
	RUNYON NAT.OBJ. D.		MANTOLOKING SETUP NO. 9 SETUP No.10			SETUP NO.9

METHOD OF LOCATION CONTROL POINTS ON SHEET "B"

SETUP NO.	STATION	PREVIOUS LOCATION	CUT IN FROM STATIONS	RESECTIONS ON STATION	ORIENTATION ON STATIONS	DISTANCE FROM STATIONS
	RAW		SETUP NO. 13 SETUP NO. 14			SETUP NO. 13
4	SEAWEED M - D	R.C.B. 1934 A.J.C.S. 1935			CHADWICK	
	SAL NAT.OBJ.D.		MANTOLOKING FISH LOG			
	SUE		SETUP NO. 15			SETUP NO. 15
	SKY NAT.OBJ.D.		DREW FISH SEAWEED CHADWICK			
	WICK		DREW SETUP NO. 21. SEAWEED CHADWICK			SETUP NO. 21
	ZAM NAT.OBJ.D.		SETUP NO. 16 DREW			SETUP NO. 16
	ZEV		SETUP NO. 17 DREW SEAWEED SETUP NO. 16			SETUP NO. 17
6		SHEET A SETUP 9			CHADWICK	
8			FLAG	MANTOLOKING	FLAG	SAL
9			MANTOLOKING		MANTOLOKING	MANTOLOKING
10			SETUP NO. 9		SETUP NO. 9	SETUP NO. 9

METHOD OF LOCATION OF CONTROL POINTS ON SHEET "B"

SETUP NO.	STATION	PREVIOUS LOCATION	CUT IN FROM STATIONS	RESECTIONS ON STATIONS	ORIENTATION ON STATIONS	DISTANCE FROM STATION
11			SETUP NO.10		SETUP NO.10	SETUP NO.10
12 A & B			SETUP NO.11 SETUP NO.15		SETUP NO.11 SETUP NO.15	SETUP NO.11 SETUP NO.15
13			FISH		FISH	FISH
14			SETUP NO.13		SETUP NO.13	SETUP NO.13
15			SETUP NO.14		SETUP NO.14	SETUP NO.14
16			SETUP NO.13		SETUP NO.13	SETUP NO.13
17			SETUP NO.16		SETUP NO.16	SETUP NO.16
18			SETUP NO.17		SETUP NO.17	SETUP NO.17
19			SETUP NO.18		SETUP NO.18	SETUP NO.18
20			SETUP NO.19		SETUP NO.19	SETUP NO.19
21			SETUP NO.20		SETUP NO.20	SETUP NO.20
22			SETUP NO.21		SETUP NO.21	SETUP NO.21
	Belfry Pres Ch. Pen (Not Recovered)	RCB 1935				

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TO BE CHARTED }
TO BE DELETED }

STRIKE OUT ONE

LANDMARKS FOR CHARTS

ATLANTIC CITY, N.J.

September 20, 1935

I recommend that the following objects which have (*have not*) been inspected from seaward to determine their value as landmarks, be charted on (*deleted from*) the charts indicated.

The positions given have been checked after listing.

Jack C. Sammons

Chief of Party.

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

LANDMARKS FOR CHARTS

TO BE CHARTED }
TO BE DELETED } STRIKE OUT ONE

ATLANTIC CITY, N. J. September 20, 1935.

I recommend that the following objects which have (*have not*) been inspected from seaward to determine their value as landmarks, be charted on (*deleted from*) the charts indicated.

The positions given have been checked after listing.

Jack C. Sammons.

Chief of Party.

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

REVIEW OF GRAPHIC CONTROL SURVEY T-6375a, SCALE: 1/10000

Date of Review 5/23/36

1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-5285, T-5286, , with particular attention to the following details:

- (a) Projection has been checked in the Field.
- (b) Accuracy of location of plane table control points.
- (c) Discrepancies between detail on this survey and the air photo compilations listed above.
- (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above.

2. Refer to the reviews and descriptive reports of air photo compilations Nos. T-5285, , , for a more complete discussion of any errors or discrepancies found. *None found*

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section. *None*

Notes and corrections resulting from the review are shown on this survey in green. *None made*

B.G. Jones

REVIEW OF GRAPHIC CONTROL SURVEY T-6375b, SCALE 1:10,000,

Date of Review

5/23/36

1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-5285, 5286, , with particular attention to the following details:

- ✓(a) Projection has been checked in the Field.
- ✓(b) Accuracy of location of plane table control points.
- ✓(c) Discrepancies between detail on this survey and the air photo compilations listed above.
- ✓(d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above. *None*

2. Refer to the reviews and descriptive reports of air photo compilations Nos. T-5285, , , for a more complete discussion of any errors or discrepancies found. *None*

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section.

Notes and corrections resulting from the review are shown on this survey in green. *None*

B. G. Jones