

(This report includes the Air Photo Field Inspection Report for the East Coast of New Jersey, Metedeconk River to Townsend Inlet.)

Dies one no. 1210-2.
Form 504 U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT
Type of Survey Topographic
Field No. 72 Office No. T-5286
LOCALITY
State New Jersey
General locality Barnegat Bay
Locality Mosquito Cove
194 32
CHIEF OF PARTY
R. C. Bolstad, Jr.
LIBRARY & ARCHIVES
DATE June 12, 1935

B-1870-1 (1)

POST-OFFICE ADDRESS:

330 West 42 Street, New York, N.Y.

U. S. COAST & GEODETIC SURVEY
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JUN 12 1935

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

June 11, 1935

To:

The Director,

U.S. Coast and Geodetic Survey,

Washington, D.C.

From:

R.C.Bolstad, Jr. H.&.G.E,

U.S. Coast and Geodetic Survey,

330 West 42 St, N.Y.C.

Subject:

Topographic Records.

In accordance with my letter dated June 6th. I am herewith forwarding the complete records for the theodolite-observed control stations obtained by my New Jersey field inspection party.

Copies of all this information has previously been forwarded to Lieutenants B.H.Rigg and E.H.Kirsch.

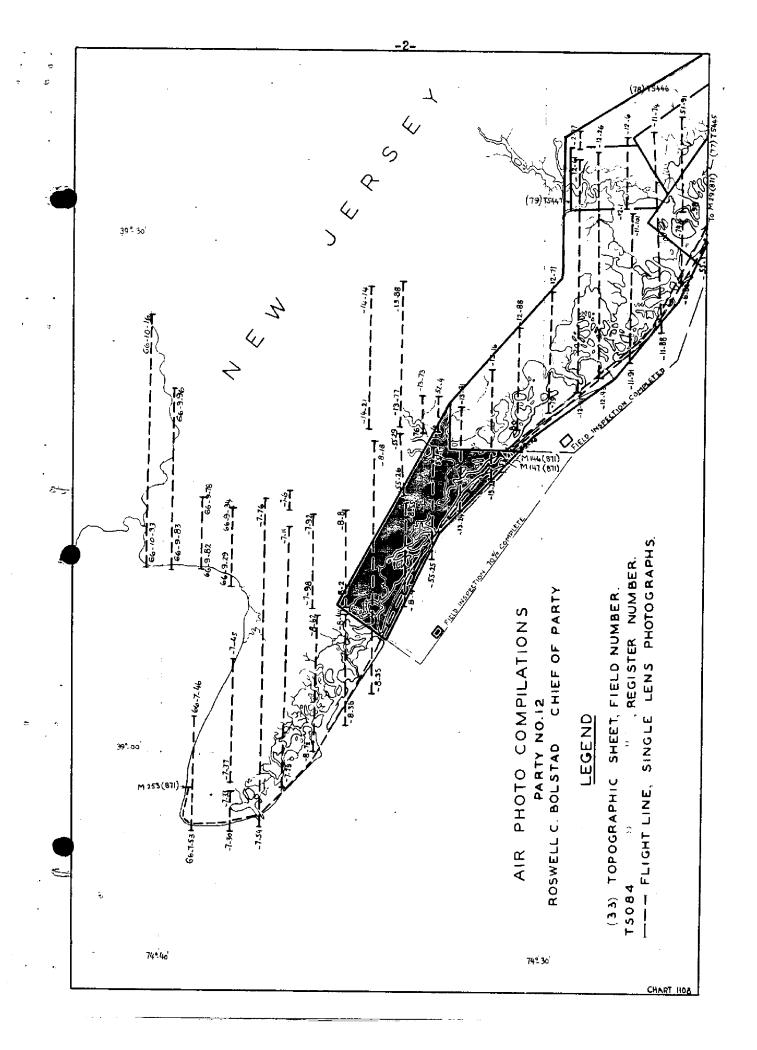
Roswell'd Barstar, C. & G.S. Chief of Party #12. C.& G.S.

AIR PHOTO FIELD INSPECTION REPORT

EAST COAST OF NEW JERSEY

METEDECONK RIVER TO TOWNSEND INLET

CHIEF OF PARTY PHOTO COMPILATIONS PARTY NO.12 LEGEND ROSWELL C. BOL STAD E R S E Y مرس <u>م</u> م (13) T5329 N F W 74° 00'



AIR PHOTO FIELD INSPECTION REPORT

for

EAST COAST OF NEW JERSEY

METEDECONK RIVER TO TOWNSEND INLET

During the interval from the middle of November, 1934 to the middle of March, 1935 a field inspection of aerial photographs was carried on along the east coast of New Jersey (as diagramed on the preceding index sheets, pages 1 and 2). The area from Metedeconk River to Great Egg Inlet, comprising 380 square statute miles, was 100% field inspected while the area south of Great Egg Inlet to Townsend Inlet (85 square statute miles) was about 70% complete in inspection, there being a few supplementary control stations which were not cut in by theodolite observations. The necessary additional control required in this area will have to be secured by Lieut. E. Kirsch, who is to conduct the compilations in this locality.

PHOTOGRAPHS.

Flight lines of photographs involved are indicated on the preceeding index charts, page 1 and 2. With the exception of the "M" photographs along the outer coast, these photographs are single lens photos taken by the Aero Service Corporation, 1612 Chancellor St., Philadelphia, Pa. in the spring of 1932. They were taken by an eight inch focal length "Orthomessar" lens camera to a scale of approximately 1:21,800. Enlargements were made from these original negatives to a scale of 1:10,000 by using existing topographic sheets of the survey and enlarging the image to coincide. Only one set of prints has been furnished.

The "M" photographs were loaned by the Beach Erosion commission; they are single lens photos but since they are decidedly off-scale, they can only be used for reference. The clearness of detail makes them invaluable for this purpose.

AREA OF INSPECTION

The area covered by this field inspection embraces the following air photo topographic sheets which are to be compiled by this party (No. 12):-

Field	No.	Regi	ste	r No.
71	(lower	Half)	T	5285
72			T	5286
73			T	5329
74			T	5330
75			T	5443
76			T	5444
77			T	5445
78			T	5446
79			T	5447
46			T	5096
47			T	5097
48			T	5098
49			T	5099

Air photo topographic sheets south of field Nos. 77 and 79 are to be compiled by the party of Lieut. E. Kirsh.

GENERAL DESCRIPTION OF TOPOGRAPHY

Sufficient and adequate notes relating to the topography were marked directly on the photographic prints.

The general character of the coast is low and sandy, broken by several inlets of importance to small craft only. Low sand dunes extend along the outer coast with marsh lowlands bordering the inland water passage.

CONTROL

(1) Triangulation

The triangulation performed by the following parties forms the basis of control for the compilations in this area:-

(a) Lieut. C.D. Meaney, 1932, first order arc.

(b) Lieut. R.W. Woodworth, 1931.

(c) Lieut. W.H. Bainbridge, 1926, third order.

A search was made for all old triangulation stations (prior to 1926) but very few were recovered. In the cases where they were recovered they had been re-observed on by one of the above parties. Recovery cards are submitted for stations lost, where the original description was found in error, or where additional description was deemed necessary in order to give a complete description of the station of the station. Where the original description was complete and adequate no recovery card was submitted. Sie offert page les also Br. 4 Page 5.

(2) Topography

Former topographic sheets of this area are of such an early date as to render them useless for supplementary control of the compilations.

(3) E.R.A. Traverse Monuments

The Emergency Relief Administration (or C.W.A.) of the State of New Jersey (under U.S.C. & G.S.) has established numerous traverse monuments along the inshore area. These have been spotted on the photographs at intervals and it was originally planned they would furnish the necessary additional control for this area; however, to date no positions for any of these monuments have been received by this party in spite of the fact that promises were made to do so over three months ago. It is not likely that the compilations can be retarded further, and the pesitions of each of these monuments will have to be radial-line plotted very closely and the positions scaled from the compilations. Final descriptions of all traverse stations will eventually be submitted by the E.R.A. party, Mr. Philip Kissam, in charge, at 20 Nassau Street, Princeton, N.J. However, in order that the party of Lieut. B. Rigg, who will conduct survey operations in the near

Note

The supplementary fourth order control described on the opposite page was put in from November 1934 to March 1935 for control of the compilations and prior to plans for combined operations begun later in the spring of 1935.

The compilations in this area were largely completed when the combined operations, including the scheme of second order triangulation and hydrography were started by Lieutenant Rigg and Sammons in the spring of 1935.

The combined operations parties made plane table control surveys to locate control for hydrography.

To insure coordination of the compilations and the later plane table and hydrographic surveys, all computations and descriptions of the fourth order stations in the scheme discussed on the opposite page were turned over to Lieutenant Rigg.

Some of these fourth order stations were relocated by the second order triangulation. In those cases the Form 524 Descriptions have been discarded and the Rigg's triangulation positions plotted on the compilations.

All the remainder of Bolstad's fourth order stations within the area of the plane table work were plotted on the graphic control surveys and cut in by those surveys.

Cases of difference in location have been taken up between the compilation party and Lieutenants Rigg and Sammons and have been disposed of.

All card 524 Descriptions within the area of the plane table surveys are filed under the graphic control survey numbers.

The cards have been corrected where necessary in disposing of the differences mentioned above and the compilations have been checked against the graphic control surveys by the field compilation party.

B. G. Jones. Office 6/6/36

future, will have available for his use descriptions of these stations which will be shown on compilations, descriptions are submitted on form 524 by this party.

(4) Theodolit-observed Recoverable Topographic Stations

In the absence of sufficient control for these small-span photos, it was necessary that additional control be secured, especially along the inshore area. Accordingly 3-pt. fixes were observed by theodolite (usually two sets of D and R) at intervals. From each 3-pt. set-up usually 3 or 4 other natural objects (such as house gables and chimneys) were observed on, the purpose being to establish azimuth lines to these objects to aid in the control of the radial line plot. In-as-much as many of these objects were observed from two 3-pt. fix positions it was decided to compute each station in order to eliminate error in laying off the outs with the protractor. (Results of radial line plots of these stations disclose the accuracy to be well within the plottable limits at the scale, 1:10,000, on which the compilatins are being conducted.) The progress sketch for these observations is shown on page 6 following.

In accordance with the Director's letter of Nov. 2, 1934 (ref. 22-AA, 1990, 16) these stations will be shown on the compilation sheets by the usual 2 millimeter black circle and all records and data pertaining to them will be classified as topographic records. Descriptions are submitted on form 524 for each station (the names of triangulation stations involved in determining their location is shown on the progress sketch, Seo opports pego.

(5) N.J. Board of Commerce and Navigation Monuments

Many of the State of New Jersey Board of Commerce and Navigation monuments were spotted on the photographs; the localities where these were available are:-

- (a) Toms River
- (b) Beachhaven Inlet
- (c) Great Bay to Atlantic City (d) Peck Bay to Ludlam Bay

Most of these stations are well marked, consisting of a le inch diameter hollow iron pipe projecting a few inches above the concrete base. The co-ordinate values have been obtained from their office at 1 Exchage Place, Jersey City, N.J. All of these stations are to be shown on the compilations as recoverable topgraphic stations by the usual 2 mm. black circle. Descriptions are submitted on form No. 524.

There are no C. & N. monuments south of Ludlam Bay as it is our knowledge that this is the limit of their field work at the present time.

(6) U.S.E. Stations

All available data regarding U.S.E.D. stations in this locality was obtained from the U.S. Army Engineers located in the Gimbel Bldg. at Ninth and Market Streets

Washington, D. C. February, 5, 1935

To: Chief Cartographic Section From: B. G. Jones , Air Photo Unit Subject: Landmarks for Charts

Attached is a List of Landmarks for Charts submitted by the Air Photo Compilation Party of R. C. Bolstad. This list covers the Coast of New Jersey from Metedeconk River to Townsend Inlet and was made from the Field Inspection during the period November 1934 to March 1935. Nerch-to

The List was submitted as part of the General Report for this area filed as Descriptive Report T5286. Page 7 of Report T5286 states that these objects have been viewed from Land only. The list includes the landmarks now on the charts andwhich are to be expunged as no longer in existence.

Bygones

B. G. Jones

Filed as chart Letter 567 1935

Philadelphia, Pa.

These stations have been spotted on the photos in the following localities:-

(a) Toms River

(b) Barnegat Inlet

(c) Tuckerton Creek

(d) Atlantic City

The co-ordinate values have been obtained for these stations. Descriptions are submitted on form 524.

To the south of the area of this field inspection and within the area to be field inspected by the party of Lieut. E.H. Kirsch, two blueprints have been secured of the area from Cape May Pt. to Wildwood. These will be forwarded to Lieut. Kirsch for his use.

(7) Railroad Data

All available railroad data (traverse), within the scope of the photographs, has been obtained from the respective railroad companies and may be plotted up and used for supplementary control. Previous R.R. traverses have proven these traverses valuable and within the required limits of accuracy for the compilations. In most cases where errors were discovered, they were found to originate at deflection points, the pluses on tangent line agreeing very well with the radial plots. All railroad traverses have been tied into U.S.C. & G.S. triangulation stations at the necessary intervals.

LANDMARKS

The following list of landmarks, including those to be expunged, are submitted by this party, (See pages 8,9,10 & 11) for the area of this field inspection. These objects have been viewed from land only by this inspection party; it is suggested the hydrographic party of Lieut. B. Rigg, soon to conduct operations in this locality, check the list and be considered the final authority in this regard.

The position of "Stack (yellow brick 110')" will have to be determined by the radial line plot of Lieut. E. Kirsch, in charge of compilations in this area.

In addition to the landmarks herewith submitted on form 567, there are additional minor landmarks of class "C" nature, (see Descriptive Report for Air-photo Topographic Sheet, Reg. No. T-5059). They have been marked "C" on the photos and will be shown on the various compilation sheets and listed in the descriptive reports for each sheet involved. Les ofshowle page

CHANGES

Since the photographs were taken in the spring of 1932, or three years ago, there have been some changes which have been marked on the photographs. However, Barnegat, Beachhaven, Little Egg, Brigantine, Absecon, Great Egg, Corson and Townsend Inlets are subjected to strong currents and marked changes in the high water line have occurred. It will be necessary for the party of Lt. B. Rigg to run in the high water line at each of these inlets in order that present conditions can be correctly shown on the compilations. The (1932) shoreline obtained from the photographs

will be shown on the compilations by a broken line at each of these inlets, and the present H. W. line (when obtained from Lt. Rigg's aluminum topo sheets) will be shown by the usual full line. The over-lay sheet will show the dates of each shoreline.

At Pleasantville there is a new road under construction which does not show on the 1932 photographs. The centerline has been spotted on the photographs and additional information and data can be secured from the N.J. State Highway Department at Trenton, N.J.

At Atlantic City and to the southward there have been, and are at present, many changes being made in the railroad lines. The Pennsylvania R.R. and the Reading R.R. have merged and are now known as the Pennsylvania Reading Seashore Lines. These changes do not show on the 1932 photographs, however, all changes except at Atlantic City (a blueprint was obtained for this area) have been picked up by this inspection party and marked on the photographs.

NAMES

Any new names in this area have been marked on the photographs. Signs along main highways give the names of creeks which is believed sufficient authority. Local dwellers, coast guard officers, and field engineers of the New Jersey Board of Commerce and Navigation furnished verification of the names.

COAST PILOT NOTES

The Coast Pilot, Atlantic Coast, Section C, and the latest supplement (June 27, 1934) were investigated and the following errors and corrections noted:-

(page 1, line 10) - There are numerous prominent standpipes and water tanks in addition to the few lighthouses.

(page 37, line 18)- The water tank at Mantoloking no longer exists.

(page 37, line 20)- There is a prominent black standpipe, about 120 ft. high, at Lavallette. The hotel at Ortley burned down 16 years ago; site now occupied by a dwelling house.

(page 37, line 22)- The tank was removed in 1929; footings only remain. There is a prominent aluminum painted standpipe, about 90 ft. high, replacing this tank.

(page 37, line 23) - The low brick chimney no longer exists.

(page 38, line 5) - The railroad no longer exists. The rails and ties have been removed and several dwellings are located in the old road bed.

(page 38, line 11)- The water tank is wooden and is now painted black. "HIGH POINT" in white letters is painted on the sides. About three- quarters of a mile to the southward there is a prominent hotel cupola.

(page 38, line 13)- The red water tank at Surf City blew down in 1934; the concrete footings only remain.

(page 38, line 17)- There is only one water tank remaining at Beachhaven; it is an ornamental steel tank (aluminum painted on the sides and a green top) about 120 ft. high supported by four steel lattice columns.

(page 38, line 40) - There are two prominent water tanks between Little Egg Inlet and Absecon Inlet.

(page 7, Supplement, for page 38) - The Little Egg Inlet light no longer exists. It has been washed away and no trace remains.

(page 39, line 49) - There is a new highway, with toll bridge, leading from Ocean City to Longport.

(page 40, line 15)- Two nearby standpipes, a black one on the south and to the north an aluminum painted standpipe. The two iron chimneys are not conspicuous.

(page 40, line 17) - There are two standpipes, one at Margate and one at Longport which are prominent. The water tank at Longport is gone.

(page 8, Supplement, for page 39) - The new gas tank at Atlantic City does not appear nearly as prominent as the Claridge Hotel dome and the Ritz-Carlton aero beacon. These two objects, in our estimation, are the first objects visible in approaching Atlantic City by day.

BRIDGES

All bridges of importance to navigation within this inspection area were investigated in the field. In view of the conflicting data obtained from the U.S.E.D. and the New Jersey State Board of Commerce and Navigation, actual field measurements were made inorder to eliminate any doubt as to the present correct status of each bridge. The correct data is listed on the photostat following (page 14).

HIGH WATER LINE

Along the outer coast where the beach is broad and the gradient slight, measurements have been made at the necessary intervals to properly identify the high water line. These measurements are marked on the photographs to gether with sketched sections of the H.W.L. and represents the actual conditions at the date of this inspection to g of Huden

Respectfully submitted,

Date of Report - March 25, 1935.

(11/30/34 to 3/19/35)

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57	12	+	labak Foli Cr. H-	y 39-13		Fized	at present tim	LILLES MAKE	7.4	1		11.0		11.0
57 58	<u>پ</u>		Corson lolet, R.	Ř. 39. 13	o 74.38	1	<u> </u>	Find Treatle	 	1	6.5	- -		
57 58	3		Middle Thora.	19-13	0 74-28.9	Traile	Exed Trestle	Tyed Treside	6.2	- 60	6.7	11.0 East Chee	10.00	
57 51 59			Career Inlet,	29. 12	2 74-39	Suma		End Sung	2,0		- 2.0: *	31.2		E) d
57 58 59 60	17				. 174 - 39		Has been	5 tilling	45		9.3	31 0	Both Chan	12.10 B
57 58 59 60			Strathmere.	75.74.6			L'Pinta P.1	removed Has been		* ************************************	1	<u> </u>		
57 58 59 60 61 62	17	\vdash	Strathmere. Ben Hands Thora R.R.	39-12		3		Has been	1'	1.	1			
57 58 59 60 61 62 63	7		See Wards	39-12	3 74.40	α	Has been removed	P Ducted						
57 51 59 60 61 62 63	7		See Wards	39-12	3 74-40 6 74-42	O TSpen	removed	Proved	z.q		1 2.9	7.2 /.	 	
57 58 59 60 61 62 63 64	7		See Wards	39-12	3 74-40 6 74-42 8 74-42	a TSpan		Pixed Span	* ***		2.9	39./2		150
57 58 59 60 61 62 63 64 65	7 +		Ben Hands Thorn R.R. Sea Isle Clip R Little Elder Cr. R.R. Big Elder Cr. Sea Isle Cty. R	39-12 R 39-09 39-09	3 74-40 6 74-42 8 74-42 3 74-43	Fixed	removed.	Pixed Span Fixed 2 Lear	3.3		3.3**	44.6	a c	共
57 58 59 60 61 62 63 64 65 65 65 65 65 65 65 65 65 65 65 65 65	7 +		Ben Hands Thoron R.R. Sea lale Cl. F Little Elder Big Elder Cr Sea lale Cty, B Sea Me Cty, H	39-13 P 39-09 39-09 1-p 39-10	.3 74-40 .6 74-42 .8 74-42 .3 74-43	o Ispan Fixed Ispan Fixed 2 Leaf 2 Bascule	2 Leaf Parcule	Fixed Span Fixed 2 Ltd Bassula	33	8.2 €	3.3% Marin 250	446		#54 * ##
57 58 59 60 61 62 63 64 65	7		Ben Hands Thorn R.R. Sea lale Cly T Little Elder Big Elder Cr Sea lale Cly, R Torkle Cly, H TRR. Journal Inte	39-12 P 39-09 39-09 P 39-10 uy 39-05	. 2 74 40. 8 74 42. 3 74 42. 3 74 42. 6 74 42. 6 74 42. 6 74 43. 6 74 43.	o ISpan Fixed ISpan Fixed 2 Leaf 2 Dancy ed Removed Sept. 1936	Removed 2 Leaf Base de	Pixed 1 Span 1 Span 1 Span 2 Leaf 2 Leaf Bascula Removed	33		3.3** F - 2.5*	44-6 50		
57 58 59 60 61 62 63 64 65 65 65 65 65 65 65 65 65 65 65 65 65	7	4	Bon Hands Thoma R.R. Sag Isla C.J. T Little Elder Big Elder Co Sea Isla Cdy, Bi Tennisna Inle Tennis	39-17 R 39-09 39-09 10 39-10 14 39-01	3 74-40 6 74-42 74-42 74-42 14 74-42 12 74-43	Fixed Topon Fixed Topon Fixed Z Leaf Bascule Reneved Sept. 1934 Tompic But Town Town	2 Leaf Bascule 4 Remoded	Pixed I span Eyed 2 Lear Bascula Removed Only 1/3	3.3			50		
57 58 59 60 61 62 63 64 65 65 65 65	7	-	Bon Hands Thoma R.R. Sag Isla C.J. T Little Elder Big Elder Co Sea Isla Cdy, Bi Tennisna Inle Tennis	39-11 R 39-09 39-09 10 39-10 14 39-01	3 74-40 6 74-42 5 74-42 5 74-42 74-42 74 74-43	Fixed Topon Fixed Topon Fixed Z Leaf Bascule Reneved Sept. 1934 Tompic But Town Town	2 Leaf Bascule 4 Remoded	Fixed Span Fixed 2 Ltd Bassula	3.3		3.3** F - 2.5*	50		
57 58 59 60 61 62 63 64 65 67 67	7	1	Bon Hands Thoma R.R. Sag Isla C.J. T Little Elder Big Elder Co Sea Isla Cdy, Bi Tennisna Inle Tennis	39-11 R 39-09 39-09 10 39-10 14 39-01	2 74,40 6 74,42 8 74-42 3 74-42 3 74-42 4 74-43	Fixed I Span I Span I Span I Span I Stad 2 Leaf Bascule Renoved I Sept. 1935 Temps Bot I Stad Thinks	Remarks Remarks	Pired Span Fired Span Fired Lear Pascula Pascula	33 399 38 48			50% 50% Pho		#54 * #1
57 58 59 60 61 62 63 64 65 67 70 71	7		Bon Hands Thorte R.R. Sea Jale C.L. T Little Elder C.C. R.R. Big Elder C.S. Sea Jale C.L. The Elder Thorne C.S. The Charter Thorne C.S. The Company Company The Co	39-12 R 39-09 39-09 P 39-10 W 39-05 T 39-0	2 74,40 6 74,42 8 74-42 3 74-42 3 74-42 4 74-43	Fixed I Span I Span I Span I Span I Stad 2 Leaf Bascule Renoved I Sept. 1935 Temps Bot I Stad Thinks	Remarks Remarks	Pired Span Fired Span Fired Lear Pascula Pascula	33 32 28 48			50% 50% 10m		
57 58 59 60 61 62 63 64 65 67 67	7	1	Bor Hands Thoric R.R. Sea Intel I. T. Cittle Elder C. R.R. Sea Intel City, R. Sea Intel C	39-12 P 39-09 39-09 P 39-09 T 39-01	2 74,40 6 74,42 8 74-42 3 74-42 3 74-42 4 74-43	Fixed Topon Fixed Topon Fixed Z Leaf Bascule Reneved Sept. 1934 Tompic But Town Town	Remarks Remarks	Pared Span Span Fixed Span Fixed Fixed Pancola Removed Conly Theoporary	2.3 2.4 2.4 2.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3.4 3					

Approved with the following comments:-

Roswell C. Bolsvad, Jr. H. & G.E., U.S.C. & G.Survey, Chief of Party No. 12.

(1) E.R.A. (or C.W.A.) Traverse Monuments (see page 4)

In the area between Great Bay and Absecon:
Inlet no descriptions (on form 524) have been submitted; measurements to locate these stations on the photographs are marked on the back of the prints. It is understood the E.R.A. party will submit the proper descriptions of each station to the Washington, in the near future.

(2) Theodolite-observed Recoverable Topographic Station (see page 5)

While the time and weather element did not permit a more elaborate scheme of control in this area, it is believed that any appreciable position arrows of these stations can be discovered (watch no-check positions carefully.) See sketch, page 6) and rectified by the radial line plotter.

(3) Bridges

The bridge data, on page 14, in the columns "Field" was obtained by actual field observations and measurements. Due to the uncertainty of the exact mean high water line (measurements were taken to the line of discoloration on the cement or piling marking the usual high water line), where these measurements were within a few tenths of a foot of the U.S.E. or C. & N. data, their information was accepted as being correct.

All data shown in the columns "Field" will, therefore, represent the corect conditions, and is to be used in the compilations.

COMPILER'S REPORT

for

ATR PHOTO TOPOGRAPHIC SHEET, REGISTER NO. T 5286.

DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY

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. 72

REGISTER NO. T 5286

StateNew Jersey
General locality Barnegat Bay (north-end)
Locality Seeweed Point to Toms River. Mosquito Cove
Date of Photographs April to July 1932. Scale 1:10.000 Date of XXXXX compilation April 3, 1935.
Yassel Air Photo Compilation Party No. 12
Reviewed and recommended for approval Chief of party Roswell C. Bolstad, Jr. H.& G.E.
Surveyed by See Statistics sheet on following page.
Inked by P.A.Kelly
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated
Remarks: Compiled on a scale of 1:10,000 and printed
by Photo Lithography.
Temporary Block and white Print Seal 1:10 a

▲ STATISTICS ▲

on

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SHEET, FIELD NO. 72 , Reg. No. T 5286 .
     PHOTOGRAPHS AS FOLLOWS:-
                  66-51-79 to 81 inclusive, taken 7/25/1932.
                  66-30-39 - - - - - - - "
                                                   4/15/1932.
                                                   4/19/1932.
                  66-11-20 to 22 inclusive.
                  66-32-75 - - - - - - - "
                                                   5/20/1932.
                  66-51-33 to 35 inclusive,
                                                   7/25/1932.
                  66-51-51 - - - - - - - -
                                              †‡
                                                   7/25/1932.
                                                   4/4/1932.
                  66-4-63 to 68 inclusive,
                                                              DATE
                                   BY
                                                         From
SCALE FACTOR = 1.000
                J.P.O'Donnell & Olumb 10/10/34
PROJECTION CHECKED W.Barasch # 10/10/34
CONTROL PLOTTED W.E.Brown E Brown 10/26/34
CONTROL CHECKED R.H.Peckworth 10/27/34
SMOOTH RADIAL LINE PLOT _ R.C. Bolstad R.C. Cause _ 1/25/35 _ 2/12/35 int.
RADIAL PLOT CHECKED ___ P.A.Kelly _ P.A. Kelly _ P.A. Kelly _ 2/14/35 _ 2/16/35
DETAIL INKED P.A.Kelly P.A. Kelly 2/17/35 4/3/3
DETAIL OF H.W.L. CHECKED J.G.Albert 2/14/35
                                                         _2<u>/17/35__ 4/3[35</u>
DETAIL OF H.W.L. CHECKED _ J.G.Albert_ .
AREA OF DETAIL INKED 17.9 sq. Statute Miles
                                                     (Land Area)
AREA OF DETAIL INKED O.1 sq. Statute Miles (Shoals in Water Area)
LENGTH OF SHORELINE (more than 200 m. from nearest opposite shore)
                                    __27.9 Statute Miles.
LENGTH OF SHORELINE (rivers and sloughs less than 200 m. wide)
                                    62.7 Statute Miles.
LENGTH OF ROADS, STREETS, TRAILS, AND RAILROADS 129.2 Statute Miles.
DATUM North American 1927.
                                        Latitude 390 581 07.765" (239.5m
STATION <u>Lavallette 1932</u>
                                     Longitude 74° 04' 26.382" (626.1m
```

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COMPILER'S REPORT

for

AIR PHOTO TOPOGRAPHIC SHEET. FIELD NO. 72.

GENERAL INFORMATION

The preceding AIR PHOTO FIELD INSPECTION REPORT, herewith attached, furnished the necessary information for the compilation of this sheet; additional information was obtained from the members of the inspecting party who were attached to the office force upon completion of the inspection.

This sheet has been compiled from single lens photographs taken by the Aero Service Corporation, 1612 Chancellor St., Phil., Pa., with a camera useing a special 8" focal length lense (Orthomessar). The original negatives are on a scale of about 1:21,800. Enlargements were made to a 1:10,000 scale by useing the former topographic sheets on this scale and enlarging the imagento coincide.

No information was available from the Aero Service Corporation listing the time of day at which the photographs were taken.

The accompanying STATISTICS sheet lists all information in connection with the compilation of this sheet.

CONTROL

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(A) Sources

The following sources of control were used in the compilation of this sheet:-

- (a) Triangulation by C.D.Meaney in 1932
- (b) " " 1839 (Stouts N.Chy.)
 (c) " 1899 (Chadwick L.S.S.)
- (d) " R.C.Bolstad, 1934-35(See preceeding report)
- (e) Pennsylvania R.R. track traverse along outer coast.
- All control is on the North American 1927 final Office adjusted position list. The triangulation(4th. order) of item (d) above was computed on the N.A. 1927 Datum.

(B) Errors

In making the radial plot no errors were discovered in any of the control stations and the railroad traverse seemed to agree well with the plot.

(C) <u>Discrepancies</u>

The railroad track traverse was fitted in with the plot and no error was apparent.

COMPILATION

(A) Method

The usual radial line method of plotting was used in the compilation of this sheet.

(B) Adjustments of plot

In making the radial line plot for this sheet no irregular or unusual adjustments were necessary.

(C) Interpretation

The usual graphic symbols as approved by the Board of Surveys and Maps (1932) were used and no difficulty was experienced in interpreting the photographic detail.

Good motor roads are shown by a double full line, poor motor roads by a double broken line, and very poor roads and trails by a single broken line.

At Lat. 40° 00.5°, Long. 74° 03.6° there exists a temporary dock which is taken up during the winter of each year; it has therefore not been shown on this sheet.

All detail has been adequately labeled by the field inspecting party on the photographs and Mr. J.K.Batchellor, who was on the field party in this area and is fully familiar with the detail, has made a brief inspection of this compilation to ascertain its correctness in accordance with actual ground conditions. Any errors or omissions have been rectified.

(D) Information from Other Sources

The high water line along the outer coast was obtained by direct measurements at intervals (see Inspection Report Age 13 preceeding.)

(E) E.R.A. Traverse Monuments.

As no positions were available for these marked stations (see page 4 of preceeding report) they have been radial - plotted in and the position scaled off from the compilation sheet and listed in the back of this report. Should the positions of these stations be made available at a latter date a comparison may be readily made and if deemed necessary a correction in the plot can be made; it is hoped that no plottable discrepancy will be discovered.

(F) Names

All names shown on this compilation agree with those shown on the U.S.C.& G.S. charts 1216 and 3243. Any additional names shown thereon were obtained from the field inspection notes (see page 12 of preceeding report).

(G) Comparison with Other Surveys

All junctions with adjoining sheets are satisfactory.
No comparison has been made with any of the previous
topographic surveys of this area as they are believed
to be of such date as to render them unsatisfactory for
comparison.

LANDMARKS

The landmarks for this area have been submitted by the field inspecting party (see page 7 of preceeding report), and have been accordingly shown on this sheet.

RECOVERABLE OBJECTS

All recoverable objects shown on this sheet (by 2 mm. diam. black circle) have been listed on page 6 following. Descriptions for these stations have been submitted on form 524 by the field inspection party (see preceeding report, pages 4 & 5).

RECOMMENDATIONS FOR FURTHER SURVEYS

This Compilation is believed to have a probable error of not more than two meters in position of well defined detail of importance for charting and of not more than four meters for other data. It is understood that the widths of roads and similar detail may be slightly expanded in order to keep it clear and from photographing as a solid mass in the photo lithographic process.

To the best of my knowledged this sheet is complete in all detail of importance for charting, within the accuracy stated above and no further surveys are required.

Submitted by

P.A. Kelly P.A.Kelly/ Draftsman.

Note The estimate of occuracy is too high for work on this wook.

a better estimate is an occuracy of 03 mm to 0.5 mm for interrested points and 0.3 mm to 1.0 mm for detail ordinated between interrested points?

Biggones.

LIST OF RECOVERABLE TOPOGRAPHIC STATIONS.

This list includes all recoverable objects shown by a small black circle on this sheet and previously described by the field inspection party (see Field Inspection Report attached).

Description (Station name)	Latit	AND DESCRIPTION OF THE PARTY OF	Long	D.P.	Method of Determination
-Seaweed	40 00	1484.4	74 98	596.7	***
Green Gable	40 00	144.0	74 07	563.0	***
Bog	39 59	1771.0	74 08	1117.6	***
Cattus	39 59	1205.9	74 06	1240.3	***
W.Gable Boat Ho.	39 59	317 362 .	74 07	834	\$ \$\$
Windmill	39 59	91.1	74 07	498.6	***
Apple	39 58	1112.5	74 06	1240.6	***
End	39 58	191.0	74 06	1152.8	***
South Gable	39 57	1830.2	74 07	24.6	***
Cedar Grove W.E.	39 58	722.	74 10	201.	000
E.R.A. #2250	39 57	1147.	74	934.	000

Note:- Legend for "Methdd of Determination"
*** By theodolite-computed position(see page 5,F.I.Report)

\$\phi\phi\phi\$ By single theodolite cut and photo plot.

@@@ By photo plot.

BGG

Jollan I-5286*

PLANE COORDINATE GRID SYSTEM

Positions of grid intersections used for fitting the grid to this compilation were computed by Division of Geodesy and the computation forms are included in this report.

Positions plotted by _____

Grid inked on made	chine by	
Intersections in	ced by	
sints used for plotting gr	·id:	·
<u>x</u>		x y
<u>x</u>		x y
x y		<u>x</u>
x y		x v
iangulation stations used	for checking	grid:
1.	5	
2.		
3.	7.	
4.	8	
		on cellulaid be

Please check left bery

PLANE COORDINATES ON TRANSVERSE MERCATOR PROJECTION (CALCULATING MACHINE COMPUTATION)

	State Vew Jetser	1 Zone single	Station Tucket (Central meridian)	fon Water Tank
	,) ,	(Central meridian)	74 40 00
à.	<u>, 39° :</u>	36 09.614		74 20 20,731
	$\Delta \phi$ (Excess of ϕ over even 10' expressed as minutes and decimal)	0'616023 AN (C	Central meridian—λ) Δλ (in sec.)	U70"~ (Q V
			$\left(\frac{\Delta\lambda''}{100}\right)^2$	139.06785
	Tabular H (even 10')	78.388717	Tabular V (even 10') Interpolated V (fraction	1.208822
	Interpolated H (fraction of 10')	78.273170	of 10') Cor, for second dif,	+ 5
	Cor. for second dif.	+ 88 78.273256	V	1.209663
	H	· · · · · · · · · · · · · · · · · · ·	Tabular difference of y for 1" of ϕ	
	a	- 0.763	οι γ τοι τ	101.17933
>	b	+ 1.307	y (for minutes of ϕ)	279, 235,92
	Η (Δλ")		y (for seconds of ϕ) Tabular y	280,208.66
	ab	- 1.00	$V\left(\frac{\Delta\lambda''}{100}\right)^2$	18.232
	x'	+ 92 305.28 2,000 000,00 -500-000.00		280, 376.898
	x	2,092,304.22	y	- 03 280,374-896
	$\frac{\text{(Tabular } y) + y}{2}$		$\Delta \lambda'' \sin \frac{\phi + \phi'}{2}$	
	$\frac{\phi + \phi'}{2}$ (Interpolated from projection table)		F (Δλ) ⁸	"
١	$\frac{2}{2}$ projection table)sin $\frac{\phi + \phi'}{2}$		Δa" Δa	·
			<u> </u>	<u> </u>

 $x' = H\Delta\lambda + ab$

x = x' + 500,000

$$y= ext{Tabular }y+V\left(rac{\Delta\lambda''}{100}
ight)^{\!2}+c$$

$$\Delta \alpha'' = \Delta \lambda'' \sin \frac{\phi + \phi'}{2} + F (\Delta \lambda'')^3$$

- GEODETIC POSITIONS FROM TRANSVERSE MERCATOR COORDINATES

	STATE New Jer	sey	STATION T-52	STATION_ T- 5286-1		
		2,140 000,00 +140 000.00 - 1.05 139 998 95	$\log (1200/3937)$ $\log (1/R)$ $\log S_m$	9.48401583 1086 4,63015147		
	S_g 3 log x' log $1/(6\rho_o^2)_g$ log $x'^3/(6\rho_o^2)_g$	5.43838412 4.5810213 001940542	cor. arc to sine $\log S_1$ $\log A$ $\log \Delta \lambda_1$	322 4,63014825 8,50911811 0,11582756 3,25509392		
	$\log S_m^2$ $\log C$ $\log \Delta \phi$	9.26030294 1.328541 0.588844	cor. sine to arc log Δλ Δλ	+ 551 3,25509943 1799."2-828"		
÷	y	430 000.00 40° 00' 50,0'161 - 38801 40 00 41,1361	λ (central mer.) Δλ λ	74 40 " 29 59.2828 74 10 00,7172		

Explanation of form:

$$x'=x-K$$

$$S_{g}=x'-\frac{x'^{3}}{(6\rho_{g}^{2})_{g}}$$

$$S_{m}=\frac{1}{R}\left(\frac{1200}{3937}\right)S_{g}$$

 $R{=}{
m scale}$ reduction factor ϕ' is interpolated from table of y

$$\Delta \phi = C S_m^2$$

$$\phi = \phi' - \Delta \phi$$

$$\Delta \lambda_1 = S_1 A \sec \phi$$

 $\log S_1 = \log S_m - \text{cor. arc to sine}$

 $\log \Delta \lambda {=} \log \Delta \lambda_1 {+} {\rm cor.}$ are to sine

GEODETIC POSITIONS FROM TRANSVERSE MERCATOR COORDINATES

STATE New J	ersey	STATION 7-52	86-2
x	. 2,180 000,00	$\log S_g$	5. 25526715
K	+180 000.00	log (1200/3937) log (1/R)	_9.48401583
$x'^3/(6\rho_o^2)_g$	179 997.78	$\log S_m$	4.73929384
S _e	11-1 -1-1 1116	cor. arc to sine $\log S_1$	473428850
3 log x'	5.76581753	log A	0,11582308
$\frac{\log 1/(6\rho_o^2)_g}{\log x'^3/(6\rho_o^2)_g}$	0.34683883	log sec φ log Δλ ₁	3.36423970
	# 117010 m/s	cor. sine to arc	3,36423 \$80
$\log S_m^2$ $\log C$	9.47858768	log Δλ	23/3,344
log Δφ	0.807129		
<i>y</i>	+430,000.00		
ϕ' (by interpolation)_	40 00 50.0161	λ (central mer.)	74 40 9 38 33.3448
φ	HO 00 43,6021	λ	74 01 266582
			636

Explanation of form:

$$x'=x-K$$

$$S_g = x' - \frac{x'^3}{(6\rho_o^2)_g}$$

$$S_m = \frac{1}{R} \left(\frac{1200}{3937} \right) S_q$$

R=scale reduction factor

 ϕ' is interpolated from table of y

$$\Delta \phi = C S_m^2$$

$$\phi = \phi' - \Delta \phi$$

$$\Delta \lambda_1 = S_1 A \sec \phi$$

 $\log S_1 = \log S_m - \text{cor. arc to sine}$

 $\log \Delta \lambda = \log \Delta \lambda_1 + \text{cor.}$ are to sine

GEODETIC POSITIONS FROM TRANSVERSE MERCATOR COORDINATES

	STATE New Je	rsey	_ Station_ 7-5-286-3		
	x	2,140,000.00	log S ₀	5. 14612478	
-	K	+140 000,00	log (1200/3937) log (1/R)	1086	
	$x'^3/(6\rho_o^2)_o$ S_c	1.05	log S_m	4.63015147	
	3 log x'	5,438 38412	$\log S_1$ $\log A$	4,630 14825 V 8,509 11 950	
	$\log 1/(6\rho_o^2)_g$	4.581 0213	$\log \sec \phi$ $\log \Delta \lambda_1$	3.25474	
	$\log x'^3/(6 ho_o^2)_g$	9.260302941	cor. sine to arc	+ 550 325475237	
	$\log S_m^{^{\flat}2}$	1.327701	log Δλ	17:11 11:12	
	log Δφ	0.588004			
4	y	39° 57 32.3604	λ (central mer.)	74 40 59"	
	Δφ		λ	29 \$7,8455 74 10 Q2.1545	
- 1	•				

Explanation of form:

$$x'=x-K$$

$$S_g = x' - \frac{x'^3}{(6\rho_o^2)_g}$$

$$S_m = \frac{1}{R} \left(\frac{1200}{3937} \right) S_g$$

R=scale reduction factor

 ϕ' is interpolated from table of y

$$\Delta \phi = C S_m^2$$

$$\phi = \phi' - \Delta \phi$$

$$\Delta \lambda_1 = S_1 A \sec \phi$$

 $\log S_1 = \log S_m - \text{cor.}$ are to sine

 $\log \Delta \lambda = \log \Delta \lambda_1 + \text{cor.}$ are to sine

GEODETIC POSITIONS FROM TRANSVERSE MERCATOR COORDINATES

STATE New J	Tersey	STATION T- 5	286-4
x	2,180,000.00	$\log S_{q}$	5, 25526715
K		log (1200/3937)	9.48401583
x' (=x-K)	+180 000.00	log (1/R)	1086
$x'^3/(6\rho_o^2)_{\phi}$	2.22	$\log S_m$	4.73929384
S,	179 997.78	cor. arc to sine	534
		$\log S_1$	4.739288501
3 log x'	5.76581753	log A	8,509/1952
$\log 1/(6\rho_{\theta}^2)_{\theta}$	4,5810213	log sec φ	0.11547466
$\log x'^3/(6\rho_o^2)_g =$	0.34683883	$\log \Delta \lambda_1$	3.363882€€
		cor, sine to arc	+ 910
$\log S_{m^2}$	9,47858768	log Δλ	1.363891
log C	1.32776	Δλ	2311.4887
log Δφ	0.806289		57
	410,000.00		
y ϕ' (by interpolation)		λ (central mer.)	74 40 "
	6,4016	Δλ	38 31.48
Δφ	39 57 25,2824	λ	74 01 28.5 143
Ψ	25.9588		

Explanation of form:

$$x' = x - K$$

$$S_g = x' - \frac{x'^3}{(6\rho_g^2)_g}$$

$$S_{m} = \frac{1}{R} \left(\frac{1200}{3937} \right) S_{\sigma}$$

R=scale reduction factor

 ϕ' is interpolated from table of y

$$\Delta \phi = C S_m^2$$

$$\phi = \phi' - \Delta \phi$$

$$\Delta \lambda_1 = S_1 A \sec \phi$$

 $\log S_1 = \log S_m - \text{cor.}$ are to sine

 $\log \Delta \lambda = \log \Delta \lambda_1 + \text{cor. arc to sine}$

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GEODETIC POSITIONS FROM TRANSVERSE MERCATOR COORDINATES

STATE New Ja	ersex	_ Station_ 7- 52	86-5
x	2,160,000,00	log S ₀	5,20411575
K		log (1200/3937)	9.48401583
x' (=x-K)	+160 000,00	log (1/R)	1086
$x'^3/(6\rho_o^2)_s$	1,56	$\log S_m$	4.68814244
S _q	159 998,44	cor. arc to sine	375
		$\log S_1$	4.6881385
3 log x'	5.612 35994	log A	8,50911881
$\log 1/(6\rho_{\theta}^{2})_{\theta}$	4.581 02 13	log sec φ	0.115 65 087
$\log x'^3/(6\rho_o^2)_g$	0.19338124	log Δλ ₁	3.312908
		cor. sine to arc	+_ 719
$\log S_m^2$	9.37628488	log Δλ	5.3129 15 75
log C	1-328121	Δλ	2055."4964
log Δφ	0.704406		887
			•
y	420,000.00		
φ' (by interpolation)	39° 59 11.1886	λ (central mer.)	74 40 "
Δφ		Δλ	- 34 15.4 4
φ	39 59 06.1256	λ	74 05 44,51
ĺ			

Explanation of form:

$$x' = x - K$$

$$S_{g} = x' - \frac{x'^{3}}{(6\rho_{g}^{2})_{g}}$$

$$S_{\scriptscriptstyle m} = \frac{1}{R} \left(\frac{1200}{3937} \right) S_{\scriptscriptstyle g}$$

R=scale reduction factor

 ϕ' is interpolated from table of y

$$\Delta \phi = C S_m^2$$

$$\phi = \phi' - \Delta \phi$$

$$\Delta \lambda_1 = S_1 \hat{A} \sec \phi$$

$$\log S_1 = \log S_m - \text{cor.}$$
 are to sine

$$\log \Delta \lambda = \log \Delta \lambda_1 + \text{cor. arc to sine}$$

$$\lambda = \lambda$$
 (central mer.) $-\Delta \lambda$

REVIEW OF AIR PHOTO COMPILATION T-5286 1:10,000.

Refer to pages 1 to 15 at front of this Descriptive Report, T-5286, for data on field inspection and control in this area.

Comparison with Graphic Control Surveys.

See page 5 of the field inspection report at front of this Descriptive Report, T-5286, for a detailed discussion of control and coordination of the graphic control surveys and the compilations in this area.

1935 triangulation stations of Rigg have been plotted on the compilation in this office by B. G. Jones and checked by R. M. Berry.

A number of described topographic stations have been transferred from the graphic control surveys to the compilations in this office by B. G. Jones and checked by R. M. Berry. R M Berry

All detail on the following graphic control surveys within the common area is now on the compilation except the magnetic meridian and temporary plane table stations:

> T-6396a 1:10,000, June 1935 T-6396b

T-6375a 1:10,000, May 1935 T-6375b

The compilation has been corrected to agree with T-5396a at latitude 40°00.9', longitude 74°06.2', and with T-5396b at latitude agreements.7', longitude 74°06.9'. At the latter point the compilation was in agrees with the photographs and the difference is apparently due to change.

High Water Line.

to March 1935 Field inspection of about November 1934 for this area was made roughly 2-1/3 years after the date of the photographs. Since the high water line is subject to frequent change it was determined as of the date of field inspection by measuring reference distances from permanent objects along the shore. The high water line determined in this manner and shown on this compilation agrees very closely with the graphic control surveys of May - June 1935. Maximum differences of 10 to 15 meters occur for very short distances where the compilation line shows small indentations as compared with the nearly straight line shown on the control surveys. No charge has been made and in the confidation the line of is motest on the

confilation as of november 1934.

Comparison with Previous Topographic Surveys.

T-117, 1839, 1:10,000, covers west shore of Barnegat Bay and interior details. Numerous small changes in shoreline. T-120, 1839, 1:20,000, covers the narrow strip of land between Barnegat Bay and the ocean. Comparison shows extensive changes along the inner shoreline.

T-1407, 1875, 1:20,000, T-1407 is a very detailed survey of both the outer beach and interior as far west as the heads of the creeks. There have been extensive changes due to construction, and many small changes in high water line. T-1407 shows a few contours and numerous fence lines not on this compilation.

T-2458 and T-2459, 1:20,000, 1899. These surveys cover the outer strip of land and show: very little detail.

The compilation is complete and adequate to supersede the sections of the above listed surveys which it covers, except for the contours and fence lines on T-1407.

Comparison with Recent Hydrographic Surveys.

This compilation is in agreement with H-5870, 1935.

Comparison with the Charts 1216 and 3243.

Landmarks and lights shown on the present charts and recommended by this compilation and the graphic control surveys are shown on the compilation.

The list of landmarks submitted by the compilation party in this area is filed as Chart Letter 56, 1936.

567, 1935.

Bg. Jones 6/6/36

M~to

Title (Par. 56) (See Title sheet)

Chief of Party Roswell C. Bolstad Compiled by P.A.Kelly

Project New York Air Photo Compilation Instructions dated Nov. 15, 1932.

Party No. 12

- 1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 8; and 16, a, b, c, d, e, g and i.)
- 2. The character and scope of the compilation satisfy the instructions and the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
- The control and adjustment of the radial plot were adequate. (Par. 12, 29.)
- There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 28.)
- W. High water line on marshy and marshy coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- Important details shown on previous surveys and on the chart have been compared with this sheet and a statement has been entered in the report regarding the removal from the chart or change in position of important detail such as rocks, lights, beacons, prominent objects, bridges, docks, and structures along the water front.
- 8. The span, draw and clearance of bridges are shown. (Par. 16c.)
 No bridges of importance to navigation are shown on this sheet.
- 9. The data furnished by the Field Inspection is adequate.

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.

- 70. The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
- 11. The descriptive report also contains all additional information required in photo topography as prescribed in the instructions and in the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
- 12. The descriptions of recoverable stations and references to shore line were accomplished on Form 524, and scaling of positions checked. (Par. 29, 30 and 57.)
- A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.)
- 14. The geographic datum of the sheet is North American 1927 and the reference station is correctly noted. (Par. 34.)
- 15. Junctions with contemporary surveys are adequate.
- 46. Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.)
- 27. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.)
- ,18. No additional surveying is recommended.
- 19. Remarks:

Any additional requirements affecting this area are referred to the reports of Lieut. B.H.Rigg who is conducting a combined-operations party in this vicinity at the present time. (June 1935.)

20. Examined and approved:

Chief of Party

21. Remarks after review in office:

Reviewed in office by:

13.9. Jones

Examined and approved:

Chief Section of Field Records

Chief, Division of Charts

Chief, Division of

Hydrography and Topography.

M-10

	GEOGRAPHIC NAMES	8		To or or	S. Model	ide /		o Guide o	And Merol	Allos /	
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	T-5286	/5	chort of	, de ,	7. No.	or indirection	Or local Mag		Cand Mr	7. S. Jaki	ande
	Name on Survey	A	<u></u>	<u>/c</u>	<u></u>	<u></u>	F.	G	<u></u>		(aying)
	Seaweed Point	1216									1
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	Andrew Point	1216								ļ	3
•	Tilton Point	1216		/						<u></u>	4
	Goose Creek	1216									5
,	Barnegat Bay	1216									6
	Island Beach	1216									7 .
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	Chadwick /	1216		/	•						10
	Atlantic Ocean	1216				· - 					11
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