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DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Pho to

Topographic \ xHydrographic

Sheet NoRag. No. T5635.

U. S. COAST & GEODETIC SCHOOL CHARASA YKO YECHARITÀ

JUN 15 1936

State New Jersey

LOCALITY

ATLANTIC COAST North of Atlantic

INLET AND VICINITY
Brigantine, North to Little Egg Inlet.

1935

CHIEF OF PART

E. H. Kirsch







applied to drawing of Chart 1216-aug 16, 1937- JTW.
"1217 apr. 1938 JTW.
Ceffleid to chart 826 May 24, 1938 AME.

FIELD NO. 2 Reg. No. T5635

PROJECTION BY	Discharged: L. C. Ripley	4-19-35
PROJECTION CHECKED BY	Discharged T. B. Nutting	4-20-35
CONTROL PLOTTED BY	P. W. Hund	4-30-35
CONTROL CHECKED BY	E. J. Anderson	4-30-35
TRIANGULATION SPOTTED BY	J. F. Richardson	
RADIAL PLOT BY	E. J. Anderson	6-14-35
DETAIL STARTED BY	Discharged T. P. Mitchell	6-14 - 35
DETAIL FINISHED BY	Pischarged T. P. Mitchell	7-20-35
DETAIL CHECKED BY	P. W. Hund	7-23-35
TOPOGRAPHY TRANSFERRED BY	Discharged T. P. Mitchell	7 - 18-35

AREA DETAIL INKED: 13.7 Square statute miles.

LENGTH OF SHORELINE: 33.0 Statute miles (over 200 meters wide)

LENGTH OF STREAMS: 64.8 Statute miles (less 200 meters wide)

LENGTH OF COASTLINE: 8.8 Statute miles.

Datum N. A. 1927

Ref. Sta. Little Beach 1932

Lat. 39° 28' 14.608" (450.5 M) [adjusted]

Long. 74° 19' 41.935" (1002.4 M)

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. T - 5635

REGISTER NO.

T5635

State New Jersey
General locality North of Atlantic City Coast
INLET AND VICINITY Locality Brigantine, North to Little Egg Inlet.
Photographs - April 1932
Scale 1:10,000 Date of Surveys , 19 Compilation - July 20, 1935 Vessel Air Photo Compilation Party No. 21.
Chief of party E. H. Kirsoh
Surveyed by See data sheet in descriptive report.
Inked by T. P. Mitchell
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line interval O Teet
Instructions dated May 16, 1935.
Remarks: None.

GENERAL INFORMATION

Statistics:

The total land area covered by this sheet is 13.7 square statute miles. The total length of the outside coast shoreline is 9.2 statute miles. There are 33.0 statute miles of River shoreline more than 200 meters from the nearest opposite shore, and 64.8 statute miles of streams and sloughs less than 200 meters wide.

General Topographic Information:

The general description of the area covered by this sheet, along with adjoining sheets of this series, is of low coastal plane type with very little relief. The coastal shoreline in general is very regular, being broken only by a few small inlets. Just inside the coastal shoreline we find a strip of ground slightly elevated, and approximately 75 to 400 meters wide, which has been classed as beaches and sand dune. The dune area is interspersed with small patches of marshy ground and the only vegetation afforded is grass and scrub bushes. Between the dune area and the mairland is a vast area comprised of marshes, bays, therofares, creeks and numerous sloughs and ponds. Any number of islands also appear in this area; some of which are practically covered at high water. On the larger islands are found ponds which are usually surrounded by sand upon which grows grass and bushes. The only solid ground appearing on this sheet is the extreme southern part. The street system represents the town of Brigantine and its subdivisional development.

Report:

The general report is listed under "General Topographic Information."

Photographs:

Photographs from part of four flights were used in the compilation of this sheet.

Flight No. 66 - 6 with photos No. 77,- 80 inclusive, began at Little Egg Inlet, ran south parallel to the coastline to the entrance of Great Thorofare. This flight was made April 15, 1932.

Flight No. 66 - 11 with photos 84 - 88 inclusive, began at the northwest end of Salt Island and ran southeast to Brigantine's Coast Guard Station. This flight was made April 20, 1932.

Flight No. 66 - 11 with photos No. $9l_4 = 97$ inclusive, began at triangulation station "Shack" and ran northwest to the northwest end of Shad Island. This flight was made April 20, 1932.

Flight No. 66 - 55 with photos No. 4-16 inclusive, began at Brigantine and parallelled the coastline to Great Egg Inlet. This flight was made August 1, 1932. Only one photo of this flight was used in this compilation. All photos were taken with a Standard Single

Note the paragraph on the opposite jage hooded. Interpretation is not close. It mean High water him on the outer court from title Egg soult to to the 39°28' was located on 7640/A may 1935; I've mean High water have from tot 39°25' to lat 39°26.1' including Brigantine soult was closeled on 7650/B July 1935. I've area is very changeable as discurred on Page of champetine infurt 7650/B.

The High water him woult of tot 39°26.1' was alterniand by field inspection on July 1935.

lens camera, operated by the Sero Service Corporation of Philadelphia, Pa.

All photos are very good as to scale but seem to be blurred. Therefore, much difficulty was had in transferring detail, but with assistance from the field party, along with inspection by the compiler, it is felt that all difficulties have been cleared up and no appreciable error will be found. These photos were made some three years ago and drastic topographic changes have taken place along the coast shoreline and inlets but this matter will be discussed later in this report.

CONTROL

Sources:

Triangulation by B. H. Rigg - 1935 and R. C. Bolstad - 1935. All on North American 1927 datum.

Errors:

No errors was found in the plotting of control or radial plot.

Discrepancies:

No control stations established by other organizations were used in the compilation of this sheet.

Method:

The standard radial line method was used as described in the U. S. Coast and Geodetic Survey notes on the compilation of planimetric Line maps from Single Lens Aerial Photographs.

Adjustment of Plot:

No unusual adjustment was had in making the radial plot. Triangulation station "Big Shad" was not held to in making the plot due to the fact that spoils around this station obliterated the possibility of making accurate measurements in the field, therefore it could not be spotted correctly on the photo.

Interpretation:

Since the photos were made three years previous to the compilation, we find the coast line has eroded to such an extent that a plane table survey was necessary to determine the exact high water line. This survey has been made from Little Ecg Inlet, south to Brigantine Channel. When the photos were too indefinite to compile an actual high water line, a survey was made and this survey will be shown on the over-lay sheet by dashed lines. It is presumed that exceedingly high waters and storm tides caused the eroding of the beach area, as the interior seems fairly well preserved. Where the high water line could not be defined on the photos, nor a survey made, the broken marsh lines indicate the boundary of the highwater, as shown just north of Erigantine's Coast Guard Station. The coastal high water line from Brigantine Channel southwest to

See Note on opposite page

* To plane to the surey on file whom. a check of this ones 1393

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 J. Brown and A. Brown and A. Brown and A. Brown and J. Br and the control of the company of the control of th

Brigantine Hotel, was determined by measurements from object on the photos to the high water line. **However, a plane table survey over part of this area was made later and checked remarkably well. Consult photo 66-11 - 88 for more information. Along the northeast, east and southeast part of Fullen Island the high water line as shown, although obtained by a plane table survey, is subject to frequent changes and should not be firmly relied upon. The prevailing conditions of this area are such that a small rise in elevation of the tide will move the present highwater line inland by several hundred meters. The low water line obtained by the same survey should be within the required limit of accuracy as it was gotten to at approximate low tide. The low water line just south of Lat. 39° 27' and east of Long 74° 20' was not obtained by a survey but was detailed in accordance with other prevailing low water lines. A cable crossing is shown by a dashed line across Little Egg Inlet. This cable was from a point on Salt Island N.E. to triangulation station "Cable". Since we have the location of the last pole on Salt Island we get our authority to shown the crossing. Submerged cable.

Sea walls have been built along the coast to preserve the beaches since the photos were made and will be shown on the overlay sheet. One small dock, just west of Triangulation station "Brigantine Beach Water Tank" (North of) does not appear on the photo. The subdivisional development, northwest of Brigantine, upon field inspection, shows an unkept seawall around the entire area, with a golf course on the left as you enter to the clubhouse, which is near the bank of Obe's Thorofare. The roads are not paved. All buildings have been shown that could be clearly seen on the photo. Street names of Brigantine and the Surrounding development will be found on a map accompanying this sheet.

All symbols were taken from the Topographic manual.

Information from Other Sources:

Graphic Control sheets No. "P" Reg. No. 7640/2"
"S" Reg. No. 7650/6", "T" Reg. No. 7650/2", and "U" Reg. No. 7650/2".

Field inspection by Lieutenant B. H. Rigg and Lieutenant (j.g.) E. H. Kirsch, and the compiler. July 1935 -

Conflicting Names:

There are no conflicting names on this sheet.

Comparison with other Surveys:

A comparison with U. S. Coast and Geodetic Survey Chart No. 1217 has been made and the Topographic Changes discussed previously in this report.

Junctions:

Satisfactory junctions have been made with sheet No. 4 Reg. No. T 5637 on the South. Sheet No. 1, Reg. No. T 5634 on the West. Atlantic Ocean on The East and Great Bay on the North.

Landmarks:

A list of landmarks for charts and marked Topographic Stations will be submitted with Graphic Control sheets mentioned previously in this report by Lt. B. H. Rigg, Chief of Party 1935.

Recommendation for Further Surveys:

The compilation of this sheet is believed to be accurate, thorough, and complete for charting purposes and no additional surveys are necessary. A probable error of not more than .3 mm may be found in detail of importance and not more than .6 mm for detail of lesser imporatance.

Approved by:

E. H. Kirsch, Chief of Party. Submitted by:

T. P. Mitchell.

Additional information to be added to the descriptive report for air photo topographic sheet No. T5635

Sources

Triangulation by C. D. Meaney 1932, C. G. Quillian 1903 and R. W. Woodworlth 1931.

Landmarks

CONTROL

Lieutenant J. A. Bond, Chief of Party 1936, will also submit additional landmarks for charts and marked topographic stations, covering the area of this sheet.

Information from other sources.

The additional information that has been added to the compilation since the press plate was made has been shown in red ink on ahoopy of the advance print. These changes include the 1936 location of the lights and beacons and minor changes in the shoreline for agreement with the hydrographic sheet. The changes were in areas where the image was very indistinct on the photographs and in several cases a new location of the shoreline was obtained with the planetable. The 1936 location of landmarks for charts and marked topographic stations were also added to the sheet.

Assisted by.

Lieut. E. H. Kirech

Chief of Patty.

Submitted by

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	Remarks	Decisions
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2		
3	There, is an abbreviation for Thorotare.	27
4	Use complete spelling unless crowded for space	
5		
6_		7
	<u> </u>	
8	see Note above on Thorotare.	
9	USES 495"SIMKINS"	Simkins
10		377077.00
11	Add 5 SHE 5/9/39 -	
_12		
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16	nas "Big Mud Thorofare un T142 see Note above on Thorofare	Mud Thoroxxxx
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_18		
19	USGS has "Steelman"	Stee/mans
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B	rigantine Beach								Name	s underli	ned in re	d approv	ed	26

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	RE Ask
Positions checked by	R.E. Ask
Grid inked on machine by	RE Ast
Intersections inked by _	Frank R. Tollow
Points used for plotting grid:	
x 2,095,000 ft y 240,000	x 2 0 80 000 y 230 000
x 2,080,000 y 210,000	<u>x</u>
x 2 095,000 y 220000	<u>x</u>
x 2 080 000 y 210 000	<u>x</u>
Triangulation stations used for ch X=2,095,521.54 y = 232,3297 1. Little Beach 1932 (ref. st.	5 {t
2. Brigantine 1932	
3. Hotel 1931	7.

STATE N. J.	-	Station	
x	2,095,000.00 2,000.000.00 + 95,000.00	• •	4. 97772210 9.48401583 /************************************
$x'^{3}/(6\rho_{o}^{2})_{s}$	+ 94,999.67	_	4.46/74879 - 149 - 4.56/75730
$3 \log x'_{-}$ $\log 1/(6\rho_o^2)_g$ $\log x'^3/(6\rho_o^2)_g$	4.933170 43 4.5810 213 9.5141921	log A log sec φ log Δλ ₁	9. 509 13 1 2 9 0. 112 542 67 3.043 42 1 2 6 + 250
$\log S_m^2$ $\log C$ $\log \Delta \phi$	4,92349758 1.320550 0,244048	cor. sine to arc log Δλ Δλ	3,08342376
'yφ' (by interpolation	240,000.00) 39 29 32,2100		
φ	- 1.754 (39 29 30.45 59		74 /948.220/

93.93 mm

115,24 mm

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

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

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

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

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

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

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

STATE 1	<u> </u>	STATION	
x	2,080,000.00	log S ₀	4. 91304490
K	2,000,000.00	log (1200/3937)	9.48401583
x' (=x-K)	+ 80,000.00	log (1/R)	1086
$x'^3/(6\rho_o^2)_{\phi}$	0.20	$\log S_m$	4.347/1559
$S_{\mathfrak{c}}$	+ 79,999.80	cor. arc to sine	
		$\log S_1$	4,34711453
3 log x'	4.70926997	log A	8. 50 9 1 3 2 6 7
$\log 1/(6\rho_o^2)_{\theta}$	4.5810213	log sec φ	0.11220090
$\log x'^3/(6\rho_o^2)_q$	9,2902913	log Δλ ₁	3,00444910
		cor. sine to arc	+ 176
$\log S_m^2$	8,77423/18	log Δλ	3.00844986
log C		Δλ	1019.6470
log Δφ	0093938		
	·		
`y	220,000,00		
_	on) 39 26 74.5362		74 40 00,0000
$\Delta\phi$			16 59.6470
φ	39 26 13,2949		74 23 00,3530
	/	4-	

41.00 mm.

0.84 mm

Explanation of form:

$$x'=x-K$$

$$S_q = x' - \frac{x'^3}{(6\rho_q^2)_q}$$

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

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

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



STATE 1. J.		STATION	· ·
x	2,095,000,00 2,000,000,00 + 95,000.00	log S _g	9.48401583
S_{σ} 3 $\log x'$ 1 $\log 1/(6\rho_o^2)_{\sigma}$ 1 $\log x'^3/(6\rho_o^2)_{\sigma}$ 1 $\log x'$ 1 $\log x$	+ 94, 999.67 4.93317083 4.5810213 9.5141921	$\log S_1$ $\log A$ $\log \sec \phi$ $\log \Delta \lambda_1$	
$\log S_m^2$ $\log C$ $\log \Delta \phi$	8 9 2 3 4 9 75 8 1. 3 1 9 7 0 7 0 2 4 3 2 0 5	cor. sine to arc log Δλ Δλ	+ 25° 3.08308249 1210.8281
	220, 000, 00 39 26 14.5368. - 1.7507 39 26 12.7853	Δλ	20 10,8281

39. 43 mm

117,60 mm.

Explanation of form:

$$x'=x-K$$

$$S_q = x' - \frac{x'^{\mathfrak{d}}}{(6\rho_{\mathfrak{o}}^{2})_{\mathfrak{g}}}$$

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

R=scale reduction factor

 ϕ' is interpolated from table of y

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

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

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

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

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

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

STATE New Je	rsey	STATION_T-56.	35
x	2,080 000.00	$\log S_{\sigma}$	4.90308890
K		log (1200/3937)	9.48401583
x' (=x-K)	80 000.00	log (1/R)	
$x'^3/(6\rho_o^2)_{\phi}$	20	log S _m	4.49711559
S_{ϵ}	79.999.80	cor. are to sine	
		$\log S_1$	4.38711453
3 log x'	4,70926997	log A	7.50913336
$\log 1/(6\rho_o^2)_g$	4.58/ 02/3	log sec φ	0.11202982
$\log x'^3/(6\rho_0^2)_q$	9.29029127	log Δλ ₁	3.00 27771
		cor. sine to arc	+ 177
$\log S_m^2$	8.77423118	log Δλ	3.008 27 9 48
log C	1,319286	Δλ	1019.2471
log Δφ	0.09351718		
· y	210 000,00		
ϕ' (by interpolation)	0 / "	λ (central mer.)	74 40
Δφ		Δλ	- 16 59.2471
φ	39 24 34,4583	λ	74 23 60.7529
	106.27mm		1.80 mm

Explanation of form:

$$x'=x-K$$

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

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

R=scale reduction factor

 ϕ' is interpolated from table of y

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

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

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

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

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

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

STATE New Je	ersey	STATION T-56	35 4 T-5634
x K $x' (=x-K)$ $x'^3/(6\rho_o^2)_\rho$ S_q	2,080 000.00 2 + 80 ve	log (1200/3937) log (1/R)	4.38711453
$3 \log x'$	8.77423118	$\log A$ $\log \Delta \lambda_1$ $\cos \Delta \lambda$ $\log \Delta \lambda$	8.509 13 19 8 0.112 37 215 3.008 618 66 + 177 3.008 62 0 43
log C	1.320129 0.09436018 230 000,00	Δλ	+ 1020.0476
ϕ' (by interpolation)_ $\Delta \phi = \phi$	39 27 53,3734 - 1,2427 39 27 52,1307 160,77 mm	- Δλ	74 40 - 17 00.0476 74 22 59.9524 143.35 mm

Explanation of form:

$$x'=x-K$$

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

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

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

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

REVIEW OF AIR PHOTO COMPILATION T-5635 Scale 1:10,000

Data Record

Triangulation to 1935 Photographs to 1932 Planetable surveys to 1936 Hydrography to 1936 Field inspection to 1935 pole to page 2 of the description what we are not the man event.

The detail on this compilation is that of the date of the photographs except for changes along the shoreline as determined by field inspection and 1935 and 1936 planetable surveys

Comparison with Contemporary Graphic Control Surveys

T-640la (1935 and 1936), 1:10,000 T-650la (1935 and 1936), 1:10,000 T-650lb (1935 and 1936), 1:10,000 T-6502b (1935 and 1936), 1:10,000

The above graphic control surveys are in agreement with the compilation.

All detail and information shown on the above graphic control surveys is shown on the compilation except temporary topographic signals and the magnetic meridians.

Comparison with Contemporary Hydrographic Surveys

H-5893 (1935), 1:10,000 H-6144 (1936), H-6145 (1936), H-6196 (1936

The shoreline for the portions of the above hydrographic surveys covered by this compilation was taken from the compilation and is in agreement with the soundings.

Comparison with Former Topographic Surveys

T-142 (1841), 1:20,000 T-1166 (1870), 1:20,000 T-2455 (1899), 1:20,000 T-2640 (1903), 1:10,000

The former surveys show that there has been very little change or erosion along the streams but the outer coast in the vicinity of Brigantine Inlet shows considerable erosion. The compilation is complete and adequate to supersede those portions of the above surveys which it covers.

Comparison with Charts 1217 and 3243

A visual comparison shows no other outstanding difference than that the compilation is more complete in detail.

L. C. Landy

July 7, 1937

REVIEW OF AIR PHOTO COMPILATION NO. T-5635

Chief of Party: E. H. Kirsch Compiled by: T.P. Mitchell

Project: HT - 205

Instructions dated: May 16, 1935.

The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b,c,d,e,g and i; 26; and 64)

- 2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g,n)
- 3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d,e)
- 4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)
- 5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.
- 6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c,h,i)
- 7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

- 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. Recoverable objects have been located and described on Form 524
 in accordance with circular 30, 1933, circular letter of March 3,
 1933, and circular 31, 1934. (Par. 29, 30, and 57)
- 10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)
- 11. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)
- 12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)

13. The geographic datum of the compilation is N. H. 1955 and the reference station is correctly noted.

- 14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)
- 15. The drafting is satisfactory and particular attention has been given the following:
 - J. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.
 - 2. The degrees and minutes of Latitude and Longitude are correctly marked.

3. All station points are exactly marked by fine black dots.

4. Closely spaced lines are drawn sharp and clear for printing.

5. Topographic symbols for similar features are of uniform weight.

6. All drawing has been retouched where partially rubbed off.

Duildings are drawn with clear straight lines and square corners where such is the case on the ground.

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

16. No additional surveying is recommended at this time.

17. Remarks:

18. Examined and approved;

Chief of Party

19. Remarks after review in office:

Reviewed in office by:

Examained and approved:

Object Coation of Mald Decade

eld Records

Chief Section of Field Work

Chief, Division of Hydrography and Topography.

Chief, Division of Charts .