

5704

5704

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Planimetric Map
Field No.	T-5704
Office No.	
LOCALITY	
State	Maryland
General locality	Centerville & Vicinity
Locality	Brownsville - Carville Hayden
Photographs taken 1937	
1940	
CHIEF OF PARTY	
L. W. Swanson	
LIBRARY & ARCHIVES	
DATE	

Applied to Reconstruction of Chart 548, Aug. 7, 1941, J.T.W.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form,
filled in as completely as possible, when the sheet is for-
warded to the Office.

Field No. T-5704

REGISTER NO.

State MARYLAND

General locality Centerville Chester River

Locality Brownsville to Centerville and vicinity
photographs May 2, 1937, from 9:07 to 9:22 a.m.
July 2, 1937 from 10:44 to 11:24 a.m.

DATA RECORD T-5704

PHOTOGRAPHS

Number	Date	Time	Scale	Alt.	Stage of Tide
1552	May 2, 1937	9:07-9:22 a.m.	1:10,000	unknown	no navigable streams
1553	"	"	"	"	"
1554	"	"	"	"	"
1555	"	"	"	"	"
1671	July 8, 1937	10:44-11:08 a.m.	"	"	"
1672	"	"	"	"	"
1673	"	"	"	"	"
1698	"	11:14-11:24 a.m.	"	"	"
1697	"	"	"	"	"
4745			1:20,000	"	"
4744			"	"	"

Camera: U.S. Coast & Geodetic Survey Nine Lens (Focal length $8\frac{1}{2}$ inches).
All negatives on file in Washington Office.

SUPPLEMENTAL SURVEYS

Graphic Control Sheets: None
Field Inspection..... D.A. Jones..... August, 1938
Name Investigation..... Lieut. (j.g.) R.A. Gilmore.. Fall of 1939

GENERAL INFORMATION

Chief of Party..... L.W. Swanson.....
Projection by..... Ruling Machine, Washington Office, Date: Unknown
Projection checked by..... Washington Office..... Date: Unknown
Hydrographic Radial Points pricked by..... None
Additional Radial Points pricked by... J. Steinberg..... October & Nov. 1940
Control Plotted by..... J. Steinberg..... Sept. 11, 1940
Control Checked by..... I.M. Zeskind..... Sept. 11, 1940
Radial Plot by..... J. Steinberg..... Sept. 16 to 23, 1940
Shoreline inked by..... no navigable streams
Detail inked by..... J. Steinberg..... Sept. 26 to Nov. 23, 40
Preliminary Review by.....

STATISTICS

Area (land)..... 23.5 Square Statute miles
Shoreline (more than 200 m. from opposite shore).... None
Shoreline (creeks)..... None
Roads, streets, trails and railroads..... 114.9 Statute Miles

REFERENCE STATION

ER
CENTREVILLE, STANDPIPE, weathervane, 1934 Datum: N.A. 1927
Latitude 39 02' 42.93" (1323.8 m) Adjusted ✓
Longitude 76 03' 57.40" (1380.4 m)

Maryland system of Plane coordinates

X coordinate: 1,065,286 FT.

y coordinate: 442,716 FT.

DESCRIPTIVE REPORT
to accompany
AIR PHOTOGRAPHIC SURVEY SHEET NO. T- 5704
STATE OF MARYLAND

^{ter}
CENTREVILLE - BROWNSVILLE TO CARVILLE HAYDEN

DATE OF THIS REPORT.....November 26, 1940.

INSTRUCTIONS:

This rough draft map drawing is a part of project HT 215, dated May 13, 1938, and supplemental instructions contained in the Director's letter dated August 28, 1939.

FIELD INSPECTION:

Field inspection of this sheet was made by D.A. Jones during the month of August, 1938.

The investigation of geographic names were made by Lieut. (j.g.) Ross A. Gilmore during the fall of 1939.

Street names in the town of Centreville were investigated by Lieut. L.W. Swanson on October 19, 1940.

PHOTOGRAPHS:

The photographs were taken with the U.S. Coast & Geodetic Survey Nine Lens Camera.

Control:

All control used on this sheet were U.S. Coast & Geodetic Survey stations. *Three A stations, all in Centerville. A fourth station, Sta "C" was added during review.*

RADIAL PLOT:

Due to the lack of control stations on this sheet, it was necessary to first run a plot from a series of 20,000 photographs and establish radial points covering this sheet. The radial points that were found common to both the 10,000 and 20,000 photographs were transferred graphically on the 10,000 sheet, and used as control in conjunction with the existing triangulation in running the 10,000 plot. Additional points were pricked on the 10,000 photographs to help fix the sheet with enough radial points.

In running this plot the first time, it was found that photographs number 1553-1555-1672 and 1697 were tilted. The tilt was computed by method Ia from R.O. Anderson's book (second edition) of "Applied Photogrammetry" and new centers established for these pictures.

only one station fell on this sheet that was run by the War Mapping Party in an accuracy test. This station was plotted and seemed to be in good agreement with the other detail which was described by the War Mapping Party. This station was Traverse Station "O" which is located in the extreme northeastern section of this sheet.

14)

The plot was then run a second time by the usual template method and the results were found to be greatly improved, except that, the radials from photographs number 1672 and 1673 in the number 3 chambers, which were slightly out because of twist in these chambers.

Due to the lack of photographs in the southeast corner of this sheet, it was necessary to plot the centers of 20,000 pictures number 4735 and 4744 on the 10,000 sheet and out in radials from these 20,000 pictures to obtain enough radial points for detailing this section. The radial points thus obtained were used, however, the section on this sheet thusly detailed is not strongly fixed.

Photographs Number 1671-1672 and 1698 were somewhat obscured by cloud formations necessitating detailing from pictures whose centers were a considerable distance from the area to be detailed. Most of the detail was obtained by means of the projector as the photographs used were off scale.

HYDROGRAPHIC SIGNALS:

No hydrographic signals were located on this sheet as there are not any navigable streams covered by this sheet.

RECOVERABLE TOPOGRAPHIC STATIONS:

No recoverable topographic stations are shown as none occur in the area covered by this sheet.

DETAIL: *All buildings were added within the City of Centerville.*

In the City of Centerville only the public buildings in the city proper are shown. On the rest of the sheet all other buildings are shown.

Roads: Roads were detailed according to the field inspector's notes shown on the field inspection prints. The relocation of two curves as shown on this sheet were obtained from the 20,000 photograph number 4744. *There is a railroad located in the northern section of this sheet which has been abandoned in junction with T-5703, this will be noted. This railroad is abandoned from Centerville to Queenstown.*

COMPARISON WITH PREVIOUS SURVEYS:

There are not any previous surveys with which to compare the area covered by the compilation of this sheet.

JUNCTIONS:

Sheet No. T-5703, West Side. The junction which consists of all inland area is in good agreement. *This junction has been made*

Sheet No. T-5707, South Side. This sheet is not completed as yet. The radial points from this sheet were transferred and used in the detailing of sheet T-5704.

This junction was compared with the Ozark print of T-5707 and are in agreement.

Sheet No. T-5815, South and West Side. No work has been done on this sheet as yet. *This junction is now in good agreement.*

Sheet No. T-5702, North Side. In running the plot of sheet No. T-5702, the tilt of photograph #1555 was not taken into consideration. On the plot of sheet number t-5704 the tilt was computed and applied to the picture thereby obtaining a fairly good plot. It is therefore recommended that the junction of sheet number T-5702 be made to agree with sheet number T-5704. *This junction was made to agree*

NAMES:

The geographic names shown on this sheet are listed on form M-234 in the appendix.

LANDMARKS:

There are none in the area covered by this sheet.

RECOMMENDATION FOR FUTURE SURVEYS:

This sheet is believed to be complete in all detail of importance for charting and no additional surveys are required.

The probable error of radial points and detail of importance is not greater than 10 meters.

Respectfully submitted,

J. Steinberg

J. Steinberg,
Photogrammetric Aid (Field)

Approved: *Shi 28, 1940*

L.W. Swanson

L.W. Swanson,
Chief of Party.

TILT

Photograph No. 1553----- 1 degree 16 minutes
Photograph No. 1555----- 1 degree 34 minutes
Photograph No. 1672----- 1 degree 10 minutes
Photograph No. 1697----- 0 degree 41 minutes

TILT CORRECTION

Distance from Iso Center:

Photograph No. 1553-----0.09"
Photograph No. 1555----- 0.11"
Photograph No. 1672----- 0.084"
Photograph No. 1697----- 0.048"

	Remarks	Decisions
1	* Centerville, # From highway sign, (a) Centerville, (b) Centerville, (c) Centerville .	390760
2		390761
3	Hayden is east of this sheet's limits	390760
4		390761 →
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20	(a) P.B. & W. (P) R.R. on chart #1226, (b) P.W. & B. R.R. (Queen Anne & Kent & Townsend Br.) (a) P.W. & B. RR. on chart #548, (c) Queen Anne's & Kent R.R.	
21	(a) Q.A.R.R. on chart #1226. (b) Queen Anne R.R.	
22	(a) Queen Anne R.R.	
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. T-5704

GEOGRAPHIC NAMES		Survey No. T-5704										
Name on Survey	On Chart No. 1226 or 548											
	A.	B.	C.	D.	E.	F.	G.	H.	K.			
Centreville R.R. sta.												
CENTERVILLE	X a		X b	X #	X *		X		X c	1		
BROWNSVILLE			X		X					2		
CARVILLE HAYDEN			X		X					3		
Corsica River	STREET NAMES - CENTREVILLE, MD.										4	
Water Street							X	X		5		
Chesterfield Ave.								X		6		
Kidwell Ave.								X		7		
Liberty Street							X	X		8		
Commerce Street							X	X		9		
Broadway							X	X		10		
Academy Lane								X		11		
Turpins Lane								X		12		
Lawyers Row							X	X		13		
Godwins Lane								X		14		
Church Lane								X		15		
Kidwell Lane								X		16		
Banjo Lane								X		17		
Belvedere Street								X		18		
Railroads & Roads										19		
Delaware R.R., Centreville Branch (P.R.R. System)	X a		X b		X		X c			20		
Baltimore & Eastern R.R. Centreville Branch (P.R.R.)	X a		X b		X					21		
Baltimore & Eastern R.R. (P.R.R.)			X a		X					22		
Md. State Hyw. No. 18					X				X	23		
" " " " 303					X					24		
" " " " 304					X					25		
" " " " 305					X					26		
U.S. Highway " 213					X				X	27		

M 234

Names underlined in red approved by L. Heck on 3/17/41

REVIEW OF AIR PHOTO COMPILATION NO. T 5704

Chief of Party: L. W. Swanson

Compiled by: Joseph Steinberg

Project: H. T. 215

Instructions dated: May 13, 1938
Director's letter dated Aug. 28, 1939.

1. 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. ~~15a~~, b, ~~c~~, d, ~~e~~, ~~f~~ and ~~g~~; ~~25~~; 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. ~~23~~; and 66 g,n)
None
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)
None
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)
None
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.
No contemporary surveys.
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. ~~15b~~; ~~40~~; 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 ~~65~~)
- 13. The geographic datum of the compilation is *N.A. 1927* and the reference station is correctly noted. ✓
- 14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j) *See Body Descriptive Report as to 75702*
- 15. The drafting is satisfactory and particular attention has been given the following:
 - 1. 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.
- 7. Buildings 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, 47)

16. No additional surveying is recommended at this time.

17. Remarks:

18. Examined and approved;

Nov. 28, 1940

L. W. Swanson
Chief of Party

19. Remarks after review in office:

Reviewed in office by:

Examined and approved:

Chief, Section of Field Records

Chief, Section of Field Work

Chief, Division of Charts

Chief, Division of Hydrography
and Topography.

Division of Photogrammetry
Review of Planimetric Map T-5704

Radial Plot.-

As discussed in the descriptive report, unusual methods were necessary because of lack of control on this and adjoining planimetric maps. However, the accuracy of these planimetric maps was checked ~~by the~~ ^{during the} progress of war mapping discussed below and was found to be adequate. In general, all well-defined details check within one millimeter of correct geographic position at the 1:10,000 scale and in most instances were closer than that.

Field Inspection and Detailing.-

Compilation of T-5704 was completed in the Baltimore Office in 1940, but the Washington Office processing was delayed by war mapping work of the Bureau and was not completed until 1946.

Meanwhile, T-5704 and the adjoining planimetric maps were used as base sheets for the preparation of topographic quadrangles T-8268 and T-8274. The quadrangles, printed at a manuscript scale of 1:20,000, were field edited after compilation and were very complete in details. They are registered in the vault.

The review of T-5704 has included a comparison with the completed quadrangles and details on T-5704 have been corrected to agree. This has required the addition of many buildings and revision of many of the streams on T-5704.

Horizontal accuracy tests made on the quadrangles did not cross this planimetric map, but one station falling in the northeast section of the map agrees with the compiled details.

Comparison with Nautical Charts.-

T-5704 was applied to Chart 548 in August 1941 prior to this review. Changes have been made on the manuscript during the review, but since it covers only the interior area of the chart these changes are rather inconsequential, and T-5704 needs no further attention in connection with Chart 548. The changes made on the manuscript by the reviewer will be adequately taken care of when the quadrangles are applied to the chart.

Reviewed by J. K. Wilson under the direction of D. H. Benson, December 1944.

Review report prepared by B. G. Jones from reviewer's notes, December 1946.

APPROVED BY:

B. G. Jones 12/46
B. G. Jones, Technical Asst.
Div. of Photogrammetry

H. C. Edmonstar
Asst. Chief, Nautical Chart Br.
Division of Charts

K. T. Adams
Chief, Div. of Photogrammetry

C. K. Green
Chief, Div. of Coastal Surveys