

5758

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5758

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

DESCRIPTIVE REPORT

Topographic ~~and Photographic~~ Air Photographic
Sheet No. T- 5758

State Maryland- Virginia

LOCALITY

Potomac River

Piscataway Creek
~~Broad Creek~~ and Vicinity

Air Photographs taken

193 7-8-

CHIEF OF PARTY

T. M. Price Jr., Field Records Section

Applied to chart 560.

July 22, 1941

J.H.S.

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 forwarded to the Office.

Field No.

REGISTER NO. T-5758

State Maryland-Virginia

General locality Potamac River

Locality Piscataway Creek and Vicinity

Scale 1:10,000 Date of photos July 8, 1937
XXXX June 29, 1938, 19...

Vessel

Chief of Party T.L. Price Jr., Section of field Records

Surveyed by

Inked by

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated, 19....

Remarks: Compiled on scale 1:10,000. Scale factor 1.00

Refer to next page for additional data.

DATA RECORD T-5758

PHOTOGRAPHS

<u>Nos.</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u> (Approx.)	<u>Altitude</u> (Approx.)	<u>Tide</u>
1718	July 8, 1937	4:00 P.M.	1:10,000	6,900 ft.	Low
1730-32	"	"	"	"	"
2068,70	June 29, 1938	11:40 A.M.	"	"	"
2083,84,85	"	12:05 P.M.	"	"	"
2560, 51 4 23-39					

Camera: U. S. Coast & Geodetic Survey nine lens, F 8-1/4 in.
Negatives on file: Washington office.

Stage of tide from *table* ~~field examination of photographs~~

Mean range from tables: 2.2 ft.
Spring range from tables: 2.5 ft.

SUPPLEMENTAL SURVEYS

Field Inspection by - T. M. Price, Jr., Nov. 1938, Jan. 1939

The details on T-5758 are of the date of the photographs except for items which were located by supplemental surveys as discussed in detail on pages 3, 4 and 5 following:

Chief of Party - T. M. Price, Jr., Section of Field Records
Projection by - Ruling machine, Dec. 6, 1938
Control Plotted by - J. W. Giberman, Dec. 7, 8, 1938
Control Checked by - L. A. McGann, Dec. 9, 1938
Radial Plot by - L. C. Lande and J. W. Giberman, Jan. 1939
Compiled by - J. W. Giberman, Jan. - April, 1939

Smooth Drafted by: *Philadelphia office*

Reference Station: Mock, 1928 Datum N.A. 1927
Lat. 38°42'03.313" (102.2 meters)
Long. 77°02'50.316" (1215.9 meters) (adjusted)

Title: Maryland-Virginia
Potomac River
Piscataway Creek and Vicinity

State Plane Coordinate System

Virginia (North)

Maryland

X = 2,414,569.11
Y = 379,915.10

X = 786,498.03
Y = 315,957.39

X Conf
Descriptive Report and Review for Air Photographic Survey T-5758

GENERAL INFORMATION

Both the office and field surveys were executed by members of the Field Records Section of the Washington Office.

The map drawing was compiled by standard radial plot methods using nine-lens photographs without templates.

The drafting was done roughly on celluloid. The smooth drafting was then done on a blue line copy on bristol board.

General information about the project as a whole is contained in the Season's Report.

CONTROL

Triangulation: U. S. C. & G. S. 1928, 1929, 1934

Recoverable stations of less than 3rd order accuracy:

Old Ft. Hunt Wharf Light, located by radial plot
(Sheridan Point Light, 1928 was destroyed in 1936)

The following stations were not searched for in the field and although shown on the sheet, their existence at the present time is not known:

Vernon, 1928; Sheridan, 1928; Cat, 1928; Ivy 1928;
Conc. Range Post North of Marshall Hall Dock, 1928;
Boundary Mon. No. 55, 1929.

For all other stations, recovery notes have been written.

FIELD INSPECTION AND INTERPRETATION OF PHOTOGRAPHS

Field inspection of control and detail was made from Nov. 1938 to Jan. 1939.

The following shoreline was covered by boat:

Maryland: Piscataway Creek (Mockley Pt. to Fort Washington)

Virginia: Little Hunting Creek and South.

The rest of the shoreline was visited at intervals from the truck.

The interior was inspected by traveling with the truck over a net-work of roads throughout the area. Only isolated areas of small extent, off of the main travelled roads, were not inspected.

Notes for locating the control on the photos are contained in notebooks No. 1, 2, 3, Potomac River Project, Air Photographic Surveys Files, Washington Office.

All notes for interpreting the detail on the photographs have been written directly on the field prints.

Discussion of streams through woods, contours, piles, houses, and fences, for which this survey is not complete, is contained in subsequent paragraphs.

MEAN HIGH WATER LINE

The mean high water line is of the date of the photographs listed on the data sheet of this report, with the following exceptions:

- (1) Piscataway Creek Shoreline from photographs taken April 23, 1939. The tide when these photographs were taken was almost high.
- (2) General.

There is no difficulty in the identifications of the mean high water line except in the marsh areas. Elsewhere the M.H.W. line is at the line of brush, grass and trees, or to one to four meters outside, as noted at frequent intervals on the field prints. In marsh areas, such as in Little Hunting Creek, and at the delta of Piscataway Creek, and wherever the light line has been used, the M. H. W. is indefinite in nature and the light line given on the drawing indicates an approximate M.H.W. line or a more or less solid line of vegetation. The amount of grass growing in the creeks varies a great deal with the season; only the permanent marsh areas have been indicated with the marsh grass symbol on the drawing. In regard to interpreting the M.H.W. from the photographs, it should be borne in mind that except for the supplemental April 23, 1939, photographs, the pictures were taken at low water.

PLOT AND DRAFTING

The standard method of radial plot without templates was used and the control was sufficient for a good plot, but several of the photographs were badly tilted and the negative of photo No. 2069 was no good which resulted in a scarcity of coverage with useable pictures at the time the plot was made in the area east of 77°01'. However, after the rough drafting of the sheet was completed two supplemental nine lens photographs were taken over Fort Washington (April, 1939). These have been used to strengthen and check former locations in the aforementioned area and it is believed that now the map is fairly uniform in accuracy throughout. A statement of accuracy is given in a later paragraph.

The hilly nature of the terrain coupled with the small overlap afforded by the useable photographs, made tracing difficult especially in the vicinity and to the east of Fort Washington. To assist in the selection of and adjustment between radial points, contours were transferred temporarily from previous topographic sheets.

Except as noted on the map title, none but standard symbols were used in the drafting.

BRIDGES

The type and clearance of the only bridge over navigable waters within the area covered by this sheet is as follows:

Mt. Vernon Memorial Highway Bridge over Little Hunting Creek:

Fixed Stone Arch Bridge; Single Span Horizontal
Clearance: 51 ft. at base of arch.

Vertical Clearance: (at M.H.W.) 2 ft. for 51 ft.
width, 19 ft. for 25 ft. width.

The above clearances are as given in 1935 U.S.E. bridge book. They were roughly checked by field measurements.

INFORMATION FROM OTHER SOURCES

The field inspection was for the dual purpose of interpreting the photographs and of surveying by ground methods changes since the date they were taken. The detail of T-5758 is derived directly from the photographs and is of the date of the photographs except for the following:

From Supplemental Air Photographs:

- (1) Nine Lens Photographs No. 3560 and 3561, taken April 23, 1939, 1:10,000 scale. These photographs have been used for the M.H.W. line of Piscataway Creek and the addition of any general detail in the northeast portion of the sheet which did not exist or which could not be drawn from the regular set of photos.
- (2) Single lens, 9"x 9" photos belonging to the Agricultural Adjustment Administration taken May 1, 1938, on 1:20,000 scale and enlarged to 1:10,000.

indent under (2)

These photographs were used to assist the drafting and interpretation of houses, roads and other general detail in the area east of long. 77°03', south of Piscataway Creek.

By Field Inspection, Nov. 1938 - Jan. 1939

The location of piles of former piers which could not be seen on the photographs was made by estimated reference to nearby features visible on the photographs.

COMPARISON WITH CONTEMPORARY SURVEYS

There are no contemporary topographic, hydrographic or graphic control surveys.

COMPARISON WITH PREVIOUS TOPOGRAPHIC SURVEYS

T-875 (1862) 1:20,000
T-947 (1864) 1:15,000

Except for contours and property lines, the present survey is adequate to supersede the above previous surveys for the common area.

T-2620 (1902) 1:10,000
T-2623 (1902) 1:10,000
T-2638 (1903) 1:10,000
T-2643 (1903) 1:10,000

The present survey is adequate to supersede the above surveys within the common area except for:

- (1) Contours (2) certain fence and property lines (3) certain former roads, now trails of minor importance (4) certain streams and intermittent streams (5) certain piles. Where the above previous surveys show piles or piers which are not shown on the present survey, sunken piles may still exist and sunken piles should be carried forward at these places until disproved by hydrographic surveys.
- *

It is believed that some of the lines projecting offshore on the old surveys represent only former fence lines, and care should be taken not to carry forward sunken piles at these places. Sunken piles should be carried forward to replace former piles or piers in the following places:

Lat.	Long.	Shown on former surveys as:
38°42.8	77°02.1	T-2638; former pier
38°41.7	77°03.7	T-2638; former pier

Note: The old Fort Hunt Pier at Sheridan Point, Virginia, shown on T-2620, and later charted as a ruined pier has been removed, according to Chart Letter 326 (1934).

COMPARISON WITH EXISTING MAPS OF OTHER ORGANIZATIONS

U.S. Army - U.S.G.S. Terrain Map, Ft. Belvoir & Vicinity (1920-6) 1:20,000
U.S.G.S. Quadrangle, Indian Head (Md. & Va.) 1923: 1:62,500 scale

The present survey is adequate to supersede the above surveys in the common area except for contours, fence lines, property boundaries and certain minor and intermittent streams.

COMPARISON WITH CHARTS

Chart No. 560 (1:40,000 scale) printing 6/3/38.

- (1) In the numerous road differences, the present survey should be accepted.
- (2) Although the present survey is not entirely complete for buildings, it should be accepted to supersede previous surveys in this respect. The same holds true with regard to property and fence lines.
- (3) Various small streams shown on the chart are not on the present survey because hidden by trees but these are of minor importance for charting.
- (4) Where piers occur on the present chart but do not appear on the present survey, submerged piles should be carried forward. At Lat. 38°41.3, Long. 77°05.6 a pile is charted. The existence of this pile is not disproved by the present survey.

COMPARISON WITH COAST PILOT

Atlantic Coast Pilot, Section C, 1930, with supplements to Feb. 1937
P. 174 Mt. Vernon:

*sent 601
9/1/40*

89174
Current charts show the channel to Mt. Vernon different from that described in the Pilot.

P. 174 Bryan Point: The wharf referred to is now in ruins.

P. 174 Sheridan Point: 1st. paragraph: The ruined wharf has been removed by the U.S. Engrs. (Chart Letter No. 326, 1934)

2nd paragraph: The wharf at Fort Hunt, directly across the river from Ft. Washington, is now partly ruined.

This report is the only notification made by this party to the Coast Pilot Section in regard to these corrections.

LANDMARKS

Lights and Beacons

- (1) Fort Washington Light and Bell (located by field measurement from nearby station Fort, 1928) Lat. 38-42-1348.5 meters, Long. 77-02-336.8 meters.
- (2) Old Fort Hunt Wharf Light (located by radial plot. Position has been changed since it was located by triangulation in 1928 as Sheridan Pt. Light,) Lat. 38-42-731 meters, Long. 77-02-1346 meters.

Natural Objects

- (1) Taller Tank (Elevated), black (Station Fort Wash. Higher Tk., '28)
- (2) Tank (Elevated) faded yellow (Station Ft. Hunt, Yellow Water Tk., '28)

To be Deleted

TANK at Fort Washington. This to be replaced by TALLER TANK as given above. A list of landmarks on Form 567 will be submitted at one time for the entire project.

RECOVERABLE H. & T. STATIONS

There are no H. & T. Stations described on form 524 on this drawing.

The only recoverable H. & T. station shown is the Old Fort Hunt Wharf Light mentioned in the paragraph above.

JUNCTIONS

This survey joins with the following air photographic surveys: T-5757; T-5759; T-5761

The junctions will be made as the various smooth drawings are completed.

GEOGRAPHIC NAMES

Geographic names, with their sources, as submitted by the field party, is attached on Form M-234 at the end of this report. The same form, listing the names as approved by the Washington Office, is also attached.

ACCURACY

The probable error in the position of well defined detail is 8 meters; for less well defined detail it is 10-12 meters. In the following exceptions the amount of error is indeterminable:

- (1) The course of streams in dense woods. A dashed "unsurveyed drainage" line has been used in cases where doubt was felt about the location of such streams.
- (2) Low water line. This feature was drawn from its photographic appearance, with some field knowledge, but without detail field examination of this feature.

ADDITIONAL WORK

This survey lacks contours; it shows part of but not all of the houses and minor streams; it has indicated only those piles visible at M. H. W.

Except for piles awash or below M.H.W., which must be carried forward from previous surveys, the present survey is complete and adequate for chart compilation.

Combined Report and Review by

T. M. Price, Jr., Field Records
Section (In charge of Field Ins-
pection and Office compilation,
Potomac River)

Inspected by:

B. J. Jones

9/5/40

Examined and approved:

Thos B Reed

T. B. Reed,
Chief, Section of Field Records

F. S. Borden

Chief, Division of Charts.

E. H. Green

Chief, Section of Field Work.

G. H. Hude

Chief, Division of H. & T.

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ADDRESS REPLY TO
CHIEF OF ENGINEERS, U. S. ARMY
WASHINGTON, D. C.

WAR DEPARTMENT
OFFICE OF THE CHIEF OF ENGINEERS
WASHINGTON

REFER TO FILE NO. 061.7 - 199

6-B

1940 OCT -29- PM 3:28

October 28, 1940.

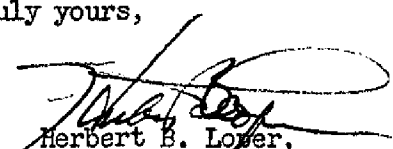
The Director,
U. S. Coast and Geodetic Survey,
Washington, D. C.

Sir:

Referring to your letter of October 25, 1940, inclosing copy of Map No. T-5758 covering the area of Fort Washington, Maryland, and requesting information whether the name of Fort Washington should be deleted. You are advised that there are no objections to the name being retained on the map.

For the Chief of Engineers:

Very truly yours,


Herbert B. Loper,
Major, Corps of Engineers,
Chief, Intelligence Section.

*The map also showed Fort Hunt
as on the present file copy.*

MAJ 4/14/41

ADDRESS REPLY TO
CHIEF OF ENGINEERS, U. S. ARMY
WASHINGTON, D. C.

WAR DEPARTMENT
OFFICE OF THE CHIEF OF ENGINEERS
WASHINGTON

061.7 - 199

REFER TO FILE NO. _____

6-B

October 28, 1940.

The Director,
U. S. Coast and Geodetic Survey,
Washington, D. C.

Sir:

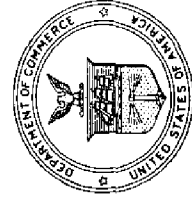
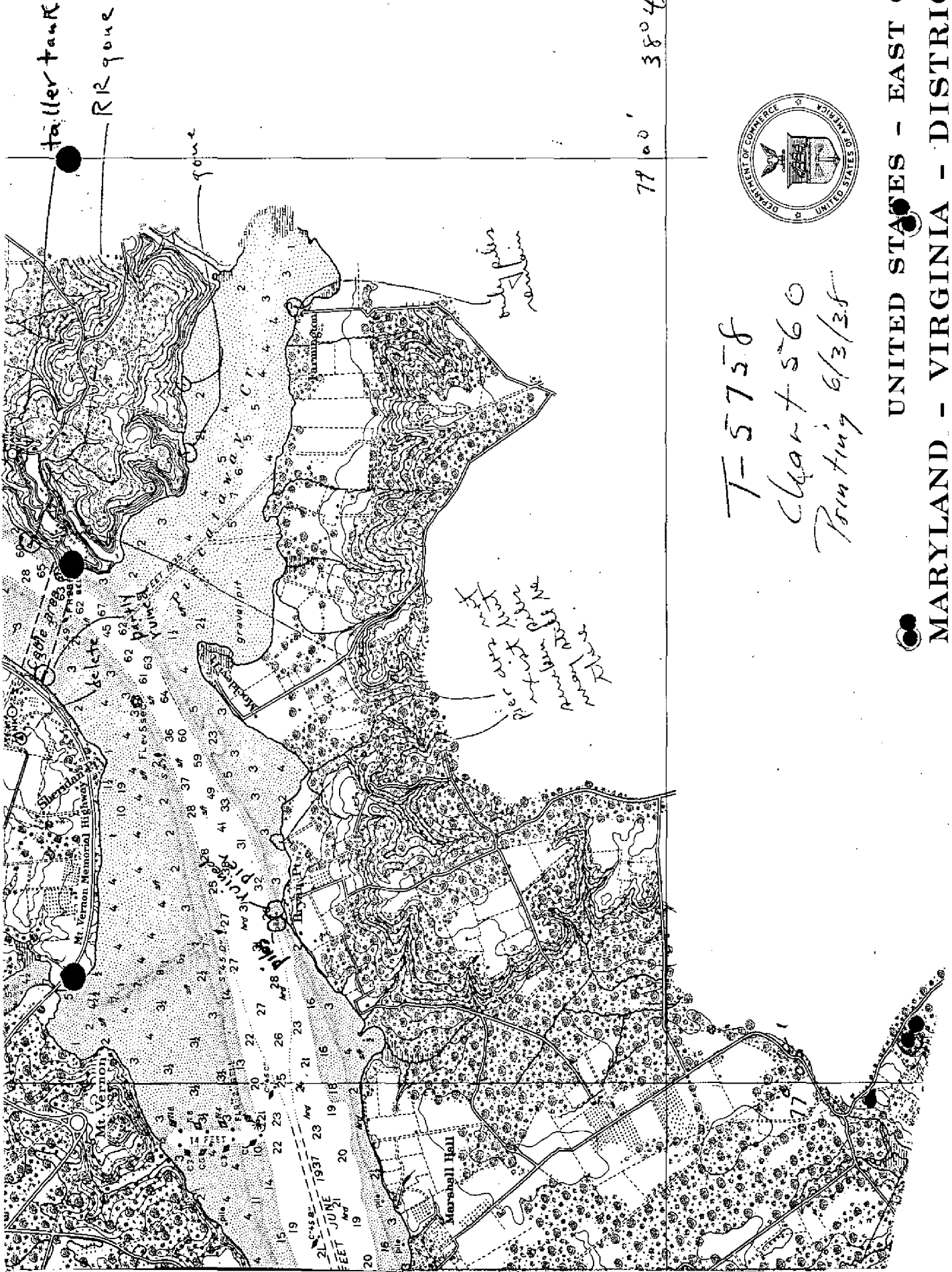
Referring to your letter of October 25, 1940, inclosing copy of Map No. 5-5758 covering the area of Fort Washington, Maryland, and requesting information whether the name of Fort Washington should be deleted. You are advised that there are no objections to the name being retained on the map.

For the Chief of Engineers:

Very truly yours,

Herbert B. Loper,
Major, Corps of Engineers,
Chief, Intelligence Section.

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of
fall
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TFL



T-5758
Chart 560
Printing 6/3/38

UNITED STATES - EAST COA
MARYLAND - VIRGINIA - DISTRICT

T5758

	Remarks	Decisions
1		386770
2		386770
3		386770
4		386770
5		387770
6		387770
7		387770
8		387770
9		387770
10		387770
11		387770
12		387770
13	here - no shack nor even a wide place in road. Listed in 1939 Rand McNally T.M. Price	387770
14		387770
15		387770
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. **T5758**

Name on Survey	A. On Chart No.	B. On previous survey No.	C. On U. S. quadrangle Maps	D. From local information	E. On local Maps	F. P. O. Guide or Map	G. Rand McNally Atlas	H. U. S. Light List	K.	
<u>Accokeek</u>										1
<u>Farmington</u>										2
<u>Bryan Point</u>										3
<u>Marshall Hall</u>										4
<u>Piscataway Creek</u>										5
<u>Mockley Point</u>										6
<u>Fort Washington</u>										7
<u>Fort Hunt</u>										8
<u>Mt. Vernon</u>										9
<u>Mt. Vernon Memorial</u>										10
<u>Sheridan Point</u> <u>Highway</u>										11
<u>Little Hunting Creek</u>										12
Oakwood This name is no good. There is a absolutely nothing										13
Miller										14
Riverside										15
Commission Run										16
<u>Potomac River</u>										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red approved

by L. Heck on 4/21/39

12. (North) Grid.

M-350

T-5758

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 H. D. REED, JR.

Positions checked by " ON RULING MACHINE

Grid inked on machine by "

Intersections inked by "

Points used for plotting grid:

x 2,405,000 FT.
y 380,000 FT.

x 2,420,000
y 370,000

x 2,405,000 } Computations
y 360,000 } fitted with
T-5761

x
y

x 2,435,000
y 380,000

x
y

x 2,435,000
y 360,000

x
y

Triangulation stations used for checking grid:

K = 2,414,329.11 - y = 379,915.10

1. Mock, 1928 (Ref. Sta.)
2. 14, 1928
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

T-5758

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 H. D. REED, JR.

Positions checked by " ON RULING MACHINE

Grid inked on machine by "

Intersections inked by "

Points used for plotting grid:

X = 775,000 FT.
Y = 295,000 FT.

X 790,000
Y 305,000

X 775,000
Y 320,000

X
Y

X 805,000
Y 295,000

X
Y

X 805,000
Y 320,000

X
Y

Triangulation stations used for checking grid:

$K = 786,498.03 \text{ FT.} - Y = 315,957.39$

1. MOCK, 1928 (Ref. 542)

5. _____

$K = 773,671.28 - Y = 311,352.72$

2. 144, 1928

6. _____

3. _____

7. _____

4. _____

8. _____