

8606

Diag. Cht. No. 77-5

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC, AIR PHOTOGRAPHIC  
BOUNDARY SURVEY

Field No. Ph-12(46) Office No. T-8606

LOCALITY

State DISTRICT OF COLUMBIA-VIRGINIA

General locality POTOMAC RIVER

Locality ALEXANDRIA, SOUTHERN SECTION

194 6.

CHIEF OF PARTY

L. J. Reed

LIBRARY & ARCHIVES

DATE

Feb-July 15-1949

B-1870-1 (1)

8606

## DATA RECORD

T- 8606

Quadrangle (II):

Project No. (II): Ph-12(46)

~~XXXX~~ Office: Washington, D. C. Chief of Party: Louis J. ReedCompilation Office:  
Washington, D. C.

Chief of Party: Louis J. Reed

Instructions dated (II III): 9 May 1946  
27 Dec. 1946 Copy filed in Descriptive  
Report No. T- (VI)  
8600,01

Completed survey received in office: 15 April 1948

Reported to Nautical Chart Section:

Reviewed: 12 July 1948

Applied to chart No.

Date:

Redrafting Completed:

Registered: ~~27 Dec 1948~~ <sup>Jan 1949</sup>

Published:

Compilation Scale: 1:4,000

Published Scale: 1:4,800

Scale Factor (III): 1.000

Geographic Datum (III): N. A. 1927

Datum Plane (III): Low-water datum  
of Washington

Reference Station (III): Jones, 1928

Harbor (See item

Lat.: ~~38° 47' 25.575" (788.6m)~~ Long.: ~~77° 02' 23.560" (568.6m)~~ 30 of the com-  
pilation report) Adjusted~~Unadjusted~~

State Plane Coordinates (VI): Virginia, North Zone

X = ~~2,416,171.45~~Y = ~~412,545.21~~

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
D2189-D2200, Inc.	3-27-46	13:04-13:12	{ 1:7,000 Contact 1:4,000 ratio	M.H.W. (Approx.)
D2257-D2266, Inc.	5-13-46	12:08-12:13	1:7,000	M.L.W. (Approx.)

Tide from (III): Refer to item 30 of the compilation report  
(filed in descriptive report for T-8600,01)

Mean Range:

Spring Range:

Camera: (Kind or source) "D" Camera U. S. Coast and Geodetic Survey  
(focal length - 12")

Field Inspection by: Everett H. Ramey date: June-July, 1946

Field Edit by: Stanley J. Hathorn date: March 1948

Date of Mean High-Water Line Location (III): June-July, 1946

Projection and Grids ruled by (III) T.L. Janson date: Aug.-Nov. 1946

" " " checked by: T.L. Janson date: Aug.-Nov. - 1946  
K.N. Maki

Control plotted by: Lou Reed date: Aug.-Dec., 1946

Control checked by: G. B. Dean & J. McDonald date: Aug.-Dec., 1946

Stereoplanigraph  
Redrawn by: L. Reed & M. G. Missulia date: Aug. <sup>1946</sup> - Apr., 1947

Detailed by: L. Reed & M. G. Missulia date: Aug. 1946 - Apr. 1947

Reviewed in compilation office by: M. G. Missulia date: July 1947

Elevations on <sup>Map Manuscript</sup> ~~Field Edit Sheet~~  
checked by: S. J. Hathorn date: March 1948

The following data pertinent to the entire Project Ph-12(46) is filed in the Descriptive Report for T-8600 and T-8601:

1. Public Law 208 - 79th Congress.

An act - To establish a boundary line between the District of Columbia and the Commonwealth of Virginia.

2. Project Instructions, Ph-12(46) dated 9 May 1946.

3. Project Instructions, Ph-12(46), Supplement #1 dated 27 December 1946.

4. Field Inspection Report.

5. Compilation Report.

6. List of Horizontal Control Stations,

Harold R. Brooks  
12 May 1948

Office Inspection Report

Shoreline Planimetric Survey No. T-8606

Project Ph-12(46)

Survey No. T-8606 is the last of a series of seven planimetric map manuscripts, as compiled by the Zeiss Stereoplanigraph, to be field edited in Project Ph-12(46).

The map manuscript was carefully inspected for completeness and features of questionable interpretation were called to the field editor's attention on one of the single-weight prints of Survey No. T-8606.

The positions of several horizontal control stations, which were not used as control for the compilation, have been plotted onto the map manuscript during the office inspection. One of these stations is D. C.--Virginia Boundary Witness Mark No. 14, 1946, which was established by the Division of Geodesy. The description of this station as noted on form 525 is to be checked during the field edit. The mean-high water line, in the immediate vicinity of this latter station is to be also checked in accordance with item 19 in the Instructions for Project Ph-12(46), Field and Office, Supplement 1, dated 27 December 1946.

All of the newly plotted horizontal control stations were called to the field editor's attention on the single weight print noted previously, accompanied by pertinent notes.

The materials for the field edit of Survey No. T-8606 are being forwarded to the Administrative Planning Section, together with a copy of this report.

Michael G. Misulia  
25 July 1947

Field Edit Report  
Project Ph-12(46)  
T-8606

46. Methods:

The field edit was completed in accordance with project instructions dated 9 May 1946 and 27 December 1946, and general field edit instructions dated 24 August 1945.

All deletions were made directly on the field edit sheet in green ink. Additions and corrections in red ink, wherever possible, were made on the field edit sheet. All additions and corrections made on the photographs are noted on the field edit sheet along with the photograph number.

New detail was located by planetable or tape within the minimum allowable limits for horizontal error.

Violet ink was used to indicate points which were checked for horizontal accuracy.

47. Adequacy of Compilation:

The map manuscript was complete and adequate except for construction changes since compilation and for certain inconsistencies in compilation.

All detail was verified riverward of a dashed blue line on the field edit sheet; and only street detail, public buildings, churches, and schools were verified inshore of this line. The arbitrary line excludes the completed compilation in the southwest part of the sheet because it detracts from the uniformity of the sheets and is too distant from the river mean-high-water-line to enhance the usefulness of the sheet.

(Arbitrary line placed on this sheet by Chief of Review Section.)

48. Accuracy Tests:

Horizontal detail was checked by occupying all the plotted horizontal control stations not used to control the compilation.

A slight compiled discrepancy in the mean-high-water-line in the vicinity of D. C.-Va. Witness Mark No. 14 was corrected on the field edit sheet. This error was

traced to incorrect delineation by the field inspector.

Except for the slight error mentioned above, it is believed the sheet is well within the horizontal accuracy requirements.

#### 49. Woods:

Woodland cover was reclassified in accordance with Photogrammetry Instructions No. 15 dated 16 June 1947.

#### 4. Horizontal Control:

All triangulation stations not recovered by the field inspection party were searched for and reported on Form 526.

Form 526 is submitted for one National Park Service (Monumented with P.B. & P.P. disk) traverse station that was recovered during field edit.

(All horizontal control recovered during field edit is shown on the project horizontal control index.)

#### 5. Vertical Control:

All bench marks not recovered by the field inspection party were searched for and reported on Form 685A. All bench marks recovered in good condition were identified (approximately) on the photographs.

(Bench marks recovered during field edit, along with the photographs used for identification, are shown on the project vertical control index.)

#### 14. Road Classification:

Roads are classified in accordance with Photogrammetry Instructions No. 10 dated 14 April 1947, and Amendment, dated 24 October 1947.

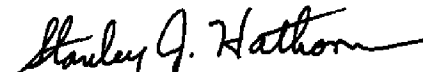
Street names on the field edit sheet and on the map of Arlington National Cemetery were verified by a field check. } Applies to T-8603

#### 18. Geographic Names: 84

An official street map of the City of Alexandria is

submitted along with the field edit sheet. No attempt was made to show sectional names of the city since these sections have no definite limits. Furthermore, these sections, which were originally isolated, have lost prominence as a result of recent city growth.

Submitted  
15 April 1948

  
Stanley J. Hathorn  
Photogrammetrist



# GEOGRAPHIC NAMES

Survey No.

T-8606

Alexandria, Va., S. Section

1

Name on Survey

On Chart  
No.

On previous survey  
No.

On U. S. quadrangle  
Maps

From local  
information

On local Maps

P. O. Guide or Map

Rand McNally Atlas

U. S. Light List

A

B

C

D

E

F

G

H

K

Virginia

USGS

1

District of Columbia

"

2

Maryland

"

3

Potomac River

"

4

Prince Georges County

5

Alexandria

6

7

U.S. No. 1

Hunting Creek Road at S. exit from Alexandria

8

Virginia No. 236

Little River Turnpike

9

Virginia No. 7

King Street (in Alexandria), afterwards Leesburg Road

10

Richmond, Fredericksburg and Potomac

11

Washington and Old Dominion

12

Southern

13

Mt. Vernon Memorial Highway

14

15

Jones Point

USGS

16

Hunting Creek

17

18

Governmental and business:

19

Shell Oil Company

20

Morton & Co.

21

Texas Oil Co.

22

Tydel Oil Co.

(not Tydel)

23

A B & W Transit Co.

24

American Red Cross

25

Madden Parker Homes

26

American Agricultural Chemical Co.

27



## GEOGRAPHIC NAMES

Survey No.

T-8606

2

Name on Survey

A

B

C

D

E

F

G

H

K

On Chart  
No.On previous survey  
No.On U. S. quadrangle  
MapsFrom local  
information

On local Maps

P. O. Guide or Map

Rand McNally Atlas

U. S. Light List

Dept. of the Army Records Branch

1

U.S. Naval Ordnance Plant

2

Southern Iron Works, Inc.

3

Virginia Electric and Power Co.

(apparently no longer "Public Service")

4

U.S. Naval Ordnance Plant

5

Franklin Street Annex

6

U.S. Army Signal Corps

7

U.S. Employment Office

8

Southern Railway Yards

9

Alexandria Amusement Corp.

10

11

Schools, churches, cemeteries, etc:

12

Parker-Gray School

13

St. Joseph Catholic Church and School

14

Bethel Presbyterian Church

15

Second Seventh Day Adventist Church

16

Third Baptist Church

17

Meade Memorial Chapel

18

Alexandria Boys Club

19

JezreelMt. Turrent Baptist Church

20

Jefferson School

21

Alexandria  
Public Library

22

Cameron Street Community Center

23

Engine Co. No. 5

24

Ebenezer Baptist Church

25

Beth El Synagogue

26

Anna Lee Home for the Aged  
Christ Church

27



# GEOGRAPHIC NAMES

Survey No. **T-8606**

9	Name on Survey	A	B	C	D	E	F	G	H	K	
	Methodist Protestant Church										1
	Washington Street Methodist Church										2
	Carlyle House										3
	Second Presbyterian Church										4
	The Salvation Army										5
	Fire Engine Co. No. 1										6
	Free Methodist Church										7
	State Guard Co. No. 112										8
	St. Pauls Episcopal Church										9
	First Baptist Church										10
	Alexandria Hospital										11
	Full Gospel Tabernacle										12
	Lee School										13
	Shiloh Baptist Church										14
	Christ Church Cemetery										15
	Alexandria National Cemetery										16
	Methodist Cemetery										17
	Presbyterian Cemetery										18
	St. Pauls Cemetery										19
	Bethel Cemetery										20
	Jewish Cemetery										21
	Alfred Street Baptist Church										22
	Star Hope Spiritual Temple										23
	Bethel Baptist Church										24
	Alexandria Academy										25
	Washington School										26
	V.F.W. Russell Mitchell Post No. 609										27

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# GEOGRAPHIC NAMES

Survey No. **T-8606**

4	Name on Survey	A	B	C	D	E	F	G	H	K	
	<u>St. Marys Catholic Church and Schools</u>										1
	<u>Old Presbyterian Meetinghouse</u>										2
	<u>Lyles Crouch School</u>										3
	<u>Robert Chapel Methodist Church</u>										4
	<u>St. Pauls Boys Club</u>										5
	<u>Zion Baptist Church</u>										6
	<u>St. Marys Cemetery</u>										7
	<u>Rosemont Park</u>										8
											9
	Street names have been checked on the name overlay and appear to agree with the official map of the city of Alexandria and the Field										10
	Edit map.										11
											12
											13
											14
											15
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											23
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											25
											26
											27
											28

Names underlined in red are approved. 8/27/48 L. Heck

M 234

Names underlined in red are approved. 8/27/48 L. Heck

THE BOUNDARY LINE BETWEEN THE DISTRICT OF COLUMBIA AND THE  
COMMONWEALTH OF VIRGINIA AS SURVEYED IN 1946 AND 1947 BY  
THE U. S. COAST AND GEODETIC SURVEY.

The survey of the boundary between the District of Columbia and the Commonwealth of Virginia, authorized by Public Law No. 208 - 79th Congress, Chapter 443, 1st Session, portrayed by Bureau maps T-8600 to T-8606, inclusive, filed in the Archives of and issued for sale by this Bureau, was completed in 1947. The boundary follows the mean high-water line from the coterminous point of the boundary of the District of Columbia, the Commonwealth of Virginia and the State of Maryland, which point lies on the west bank of the Potomac River at the point of mean high water, near Little Falls, at approximate latitude  $38^{\circ} 56' 03''.4$  and longitude  $77^{\circ} 07' 24''.8$  and continues southerly along the mean high-water line across the mouths of all tributaries affected by the tides of the river to a point where the mean high-water line intersects the centerline extended of Second Street in Alexandria, Virginia, and, from this point of intersection to the northern terminus of the present established pierhead line and following the said pierhead line to the coterminous point of the District of Columbia, Virginia, and Maryland, which point is approximately 500 feet northeast of Jones Point.

Public Law No. 208 deals only with the boundary between the District of Columbia and Virginia, but for complete cartographic representation within the map limits, parts of the boundary between Virginia and Maryland must be shown north and south of the District of Columbia. The section of the Virginia - Maryland boundary immediately south of the District of Columbia has been variously portrayed on prior maps of the area and only after consideration of all the pertinent laws, reports, and facts has it been portrayed as it appears on Bureau map T-8606.

The unsettled points that have been in question are:

(A) There is the northern terminus of the straight line along the Virginia - Maryland boundary between Boundary Monument No. 57 and Boundary Monument No. 58 - how far south of Boundary Monument No. 58 does this line stop? And, (B) how should the boundary line be shown from the above-mentioned terminus to the coterminous point of the District of Columbia - Virginia - Maryland boundary?

(A) In answer to the first question, the 1930 report of the marking of the boundary by Mathews and Nelson stopped approximately  $1/8$  mile short of a junction with the coterminous point of the boundary of the

District of Columbia, Virginia and Maryland,  
northeast of Jones Point, the description stating;

"thence by a straight line  $181^{\circ} 45' 12''$ ,  
18013.1 feet to a point on Jones Point,  
lat.  $38^{\circ} 47' 25.75''$ , lon.  $77^{\circ} 02' 26.20''$ ,  
referenced by Monument No. 58, 42 feet  
distant (to Mon. No. 58) in azimuth  $180^{\circ}$ ."

The above description places the northern terminus of the straight line between Boundary Monuments No. 57 and 58, 42 feet south of Boundary Monument No. 58. It is assumed that this northern terminus was made to fall on the low-water line. The shoreline has since accreted (built up) and the distance, measured in 1946 and verified in 1949, is 87 feet. The straight line of the boundary has, therefore, been terminated 87 feet south of Boundary Monument No. 58, since the land acquired by accretion becomes a part of the mainland to which it becomes attached.

- (B) The answer to the second question, as to where the boundary line lies between the terminus 87 feet south of Boundary Monument No. 58 and the coterminous point of the District of Columbia, Virginia, and Maryland can be deduced from the following. Although the 1930 report of Mathews and Nelson ignores this part of the boundary, the text of the 1877 Award states;

"3. The low-water mark on the Potomac, to which Virginia has a right in the soil, is to be measured by the same rule, that is to say, from low-water mark at one headland to low-water mark at another, without following indentations, bays, creeks, inlets, or affluent rivers.

"4. Virginia is entitled not only to full dominion over the soil to low-water mark on the south shore of the Potomac, but has a right to such use of the river beyond the line of low-water mark as may be necessary to the full enjoyment of her riparian ownership, without impeding the navigation or otherwise interfering with the proper use of it by Maryland, agreeable to the compact of 1785."

Now, therefore, it seems clearly evident that the Virginia - Maryland boundary from the terminus 87 feet south of Boundary Monument No. 58 should follow the low-water line easterly and northerly around Jones

Point until it meets the point of the District of Columbia - Maryland boundary extended southwesterly, and thence northeasterly along this line to the coterminous point of the District of Columbia, Virginia and Maryland, and it has been so portrayed on map T-8606 of this Bureau.

An error has been discovered in the description of Boundary Monument No. 58, as published in the Mathews and Nelson report. This error has no bearing on the location of the boundary line, but is made a matter of record here. The monument is described in the report as:

"on Jones Point about half way between  
the old lighthouse and the present (1929)  
Jones Point Light."

The monument is much nearer the old lighthouse; the more correct proportion being approximately 3/11 of the total distance between the objects.

*S. V. Griffith*  
S. V. Griffith  
Chief, Review Section  
Division of Photogrammetry

Approved:

*K. T. Adams*  
K. T. Adams  
Chief, Division of Photogrammetry

Division of Photogrammetry  
Review Report of  
Planimetric Map Manuscript T-8606

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

26. Control.--The horizontal control stations D.C.-Virginia Boundary Witness Mark No. 11, R.M. No. 1, 1946 and D. C. South Corner Stone, 1884 are recovered stations and are shown on the map manuscript. They are not included in the summary of horizontal control stations attached to the descriptive report for T-8600 and T-8601.

Station C (U.S.E.) 1924 listed in the control summary was not recovered and is not shown on the map manuscript.

Six bench marks, recovered by field inspection, have been shown on the map manuscript with their elevations shown to the nearest one-tenth foot.

37. Boundary.--Refer to the description of "The Boundary Line between the District of Columbia and the Commonwealth of Virginia as surveyed in 1946 and 1947 by the U. S. Coast and Geodetic Survey" attached to the Descriptive Report.

43. Comparison with Previous Surveys.--

T-905	1:1,000	1863
T-910a	1:15,000	1863-74
T-941	1:15,000	1864
T-1960	1:31,680	1863-64
T-2620	1:10,000	1902
T-2621	1:10,000	1902
T-4091	1:10,000	1924
T-5756	1:10,000	1937-40

~~Common features on these surveys are superseded by the map manuscript.~~

*This map supercedes all other maps of this area for charting of along shore features.*



Comparison with Existing Photographic Quadrangle

Section 100 and vicinity, W.-Va.-D.C., 1:31,680, U.S.G.S.,  
1918-15 (surveyed), 1941-42 (revised).

15. Comparison with Nautical Charts

Chart No. 560, 1:40,000 12-1-47

11. Application to Nautical Charts

This map manuscript has not been applied to nautical chart  
560.

Reviewed by:

Reviewed under direction of:

K. H. Maki  
T. H. Maki  
7-12-48

L. V. Griffith *Mr.*  
Chief, Review Section *K.H.M.*

Approved by:

B. J. Jones 1/49  
Tech. Asst. sent to the  
Chief, Div. of Photogrammetry

H. B. Edmundson  
Chief, Nautical Chart Branch  
Division of Charts

K. T. Adams  
Chief, Div. of Photogrammetry

L. D. M. Scaife  
Chief, Division of Coastal  
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