

# 8327

Diag'd. on Diag. Ch. No. 78-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Air Photographic Topographic

Field No. CS-289-W-2 Office No. T-8327

### LOCALITY

State Virginia

General locality Mobjack Bay

Locality Ware River - York River

1942-'46

### CHIEF OF PARTY

F.L.Gallen & F.L.Peacock

### LIBRARY & ARCHIVES

DATE \_\_\_\_\_

# 8327

## DATA RECORD

T-8327

Quadrangle (II): 7½ Minute

Project No. (II): CS-289-W-2

## Field Office:

War Mapping Party No. 1

Air Photographic Party No. 2

## Compilation Office:

Baltimore Photogrammetric Office

Instructions dated (II III):

August 10, 1944

## Chief of Party:

F. L. Gallen

Fred. L. Peacock

## Chief of Party:

Fred. L. Peacock

Copy filed in ~~Descriptive~~~~Report No. T- (VI)~~

Photogrammetry Office Files.

Completed survey received in office: June 1946

Reported to Nautical Chart Section: June 1946

Reviewed: July 10, 1946

Applied to chart No. 494

Date: 7/29/46  
3/30/49

## Redrafting Completed:

Registered: Sept 13, 1949

Published: 1949

Compilation Scale: 1:20,000

Published Scale: 1:24,000

Scale Factor (III): None

Geographic Datum (III): N. A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): NAXERA, 1942, r. 1944

Lat.: 37° 20' 28.596" (881.6m) Long.: 76° 26' 57.210" (1408.2m) Adjusted

~~Unadjusted~~

State Plane Coordinates (VI): South Zone

X = 2,396,140.89

Y = 373,448.18

Military Grid Zone (VI) A

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u> 75th Meridian	<u>Scale</u>	<u>Stage of Tide</u>
12648 to 12651, Incl.	11/28/42	1:15	1:20,000	2.0' above M.L.W.
12684 to 12687, Incl.	11/28/42	2:09	1:20,000	2.3' above M.L.W.

Tide from (III): Predicted Tables, Reference Station, Hampton Roads, Va., with correction for Severn Wharf, Severn River, Mobjack Bay, Va.  
 Mean Range: 2.5                      Spring Range: 3.0

Camera: (Kind or source) U. S. Coast & Geodetic Survey nine lens camera (Focal length 8 $\frac{1}{2}$ "). All negatives are on file in Washington Office.

Field Inspection by:	date:
K.B. Roche      Oct. 1944      Marvin C. Jenkins	May, 1944
Lt. Dale E. Sturmer, April, 1945 R. E. Houtrouw	May, 1944
Field Edit by: <i>Robert A. Horn, Typog. Eng</i>	date: <i>May 1946</i>

Date of Mean High-Water Line Location (III): Same as date of photographs.

Projection and Grids ruled by (III) S.R. - B.R.C.	date: 12-1-44
" " " checked by: B.R.C.	date: 12-1-44
Control plotted by: John M. Reinoldi	date: 12-19-44
Control checked by: Raymond Glaser	date: 12-27-44

Radial Plot by: J. Edward Deal, Jr. and John M. Reinoldi	date: Dec. 1944
	Jan. 1945

Detailed by: Raymond Glaser	date: Nov. 1945
John M. Reinoldi	Dec. 1945
Reviewed in compilation office by: Albert C. Rauck, Jr.	date: Jan. 1946

Elevations on ~~Field Edit Sheet~~ *Map Manuscript*  
 checked by: *L. T. STEVENS*                      date: *July 1946*

### STATISTICS (III)

Land Area (Sq. Statute Miles): 35 (Approx.)

Shoreline (More than 200 meters to opposite shore): 48 Statute miles.

Shoreline (Less than 200 meters to opposite shore): 48 Statute miles.  
Measured along approximate center line of streams only..

Number of Recoverable Topographic Stations established: 51  
29 Topographic Stations      9 Non-Floating Aids to Navigation.  
11 Bench Marks              1 Azimuth Ref. Mark.  
1 Aeronautical Aid  
Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname  
and initials (not initials only).

Remarks:



FIELD REPORT  
MAP MANUSCRIPT, SURVEY No. T-8327

CHESAPEAKE BAY  
MOBJACK BAY  
Project No. CS-289-W-2

1. DESCRIPTION OF THE AREA:

Quadrangle T-8327 includes the area between York river, Ware River, and Mobjack Bay, in the southeastern part of Gloucester County, Virginia, which includes Robins Neck and Guinea Neck. Tide water creeks from Mobjack Bay on the northeast and York River on the south almost cut these peninsulas at several points.

The terrain of this area is low end flat with the elevation ranging from sea level to a maximum of forty feet in the southwestern part of this quadrangle. The streams draining the area are relatively short, flowing directly into tide water and are not a part of any extensive drainage system.

Except for a few sand beaches and the north shore of the York River, the terrain immediately adjacent to the Mean High-Water Line is mostly marsh. Some portions of the foreshore of these areas are grass-in-water, hard mud, and sand shoals.

The area is thinly populated and is made up of small fishing villages. Approximately twenty per cent of the land area is used for farming and most of the larger farms are situated near the edges of the numerous creeks.

Ferry service from Gloucester Point to Yorktown is available at one half hour intervals over a twenty-four hour period. Good all weather roads are found in the area of this quadrangle.

The southern portion of this quadrangle is known as GUINEA locally, but the name is not liked or recognized by the inhabitants of this area. When inquiring locally as to the location of GUINEA, the inhabitants will always direct one to the eastward, until there is nothing left but the marshes.

2. COMPLETENESS OF FIELD INSPECTION:

The original field inspection work for the area of this Survey was made by a War Mapping Field Party under the Director's instructions, dated February 22, 1944. These instructions contemplated that the area of Project No. CS-289-W-2, of which this Survey is a part, and extensive areas to the south and west thereof, would be field inspected for recovery and identification of control and with respect to shoreline and interior detail on the photographs, without any work for delineation of relief, before June 30, 1944. Due to the large areas involved and to the necessity of completing field work on specified quadrangles along the northern and southern margins of Project No. CS-289, the field inspection processes in this area had to be speeded up and the work was more hurriedly done than is usual or desirable.

## 2. COMPLETENESS OF FIELD INSPECTION: (Cont'd.)

As a result of a changed program, new instructions were issued August 10, 1944, which called for the necessary leveling and contouring in the area of Project No. CS-289-W-2, for the delineation of relief, and including a check to ascertain the completeness and accuracy of the previous shoreline and detailed field inspection work, to be performed by a Field Sub-Party under the jurisdiction of the Baltimore Photogrammetric Office. This Sub-Party began operations in the area in September 1944. It immediately became apparent that the previous shoreline field inspection had been too hurriedly carried on. While the area in question is admittedly one difficult to interpret for topographic mapping and in many localities the interpretation is a matter of the Topographer's choice, the Civil Service employee in immediate charge of the Sub-Party disagreed so radically from the previous interpretation that he deemed it necessary to make a complete new shoreline field inspection and did so on his own initiative.

Later when the differences in the two interpretations were available to the Baltimore Photogrammetric Office, the Officer-in-Charge requested the Commissioned Officer then in charge of the Sub-Party to make a few spot re-checks to determine which interpretation should be accepted. He reported, and demonstrated by a separate interpretation of his own in a few selected especially difficult areas, that the later interpretation by the Field Sub-Party in the fall of 1944 was superior and should be used.

The identification of the horizontal control is complete except as noted under Side Heading No. 4, "Horizontal Control", of this Report. The identification and field inspection of the Mean High-Water Line, foreshore and offshore details, are complete except for the Mean Low-Water Line. The field inspection of the interior area is complete.

## 3. INTERPRETATION OF THE PHOTOGRAPHS:

Sufficient notes have been made on the field photographs to enable the Compilation Office to augment the field interpretation by analogy where necessary.

The photographs are clear and show sharp contrast between evergreen and deciduous foliage; no difficulty should be encountered in their interpretation.

Drainage, being very definite and flowing directly to the numerous tide water creeks, can be easily identified on the photographs.

## 4. HORIZONTAL CONTROL:

The recovery and identification of horizontal control was done in accordance with the instructions for Project No. CS-289.



4. HORIZONTAL CONTROL: (Cont'd.)

All of the horizontal control stations within the area of Survey No. T-8327 were recovered in good condition with the following exceptions:

Stations that have been Destroyed

DOUBLE, 1906 *no card*  
MID, 1905  
MINOR, 1906  
RED, 1906 *no card*  
YELLOW HOUSE, SMALL TWO-STORY,  
EAST GABLE, 1932 (n.d.)

Stations Searched for but not Found

ARCHIE (V.F.C.), 1930  
BAR A (V.F.C.), 1930 (n.d.)  
BAR B (V.F.C.), 1930  
BUSH, 1910  
DEAD TREE, 1905 (n.d.)  
FLAGPOLE, 1932  
NEDS (V.F.C.), 1930  
POINT 2, 1910 *no card*  
SANDY, 1906 *no card*  
SEVERN, 1905  
SQUARE, 1906  
*Turtle (VFC) 1930*  
*Maye 1905*

Forms No. 526, Recovery Note, have been submitted for three of the Horizontal Control Stations by this office and the remainder/ <sup>were</sup> presumably submitted by the Chief of War Mapping Party No. 1.

5. VERTICAL CONTROL:

Eleven marked Bench Marks were recovered and identified on the field photographs. They are as follows:

B.M. 10, 1916  
B.M. 12, 1916  
B.M. 8, 1916  
B.M. A-267  
B.M. B-267  
B.M. C-267  
B.M. D-267  
B.M. E-267  
B.M. X-266  
B.M. Z-266  
T.B.M. 1, 1918

In addition to the above vertical control, fly levels were run along the main roads and elevations were established at all main road intersections. The error of closure of these fly level lines was less than 0.5 of a foot.

6. CONTOURS AND DRAINAGE:

Contouring was effected by a planetable party using standard Coast Survey methods and equipment.

All contouring was done on the photographs using 10' contour intervals. Cultural features were used to supplement planetable "shots" to locate contours wherever possible. Hand level lines were run in the very thickly wooded and brush areas to supplement the planetable "shots". These lines were generally run to obtain elevations in the bottoms of drains or to set contours down ridges where accuracy could be obtained without an additional set-up for the table. These lines were always short and distances were paced from the rod as located by planetable "shots". Traverses were tied in to predetermined locations and elevations and all accepted lines had closures of 0.9 or less. All accepted traverses were tied in horizontally within ten meters. A very satisfactory way to mark points in wooded areas is to cut the bark from a live tree to get a white surface, then the lead of ordinary blue scripto pencil will merge with the tree sap giving an indelible effect that makes notes and elevations clearly visible and weatherproof for months after the notes are made. This makes recovery of points and elevations easy for the topographer.

Drainage for this survey was put in by use of the stereoscope and checked in the field by planetable.

7. MEAN HIGH-WATER LINE:

All of the Mean High-Water Line has been identified on the photographs in accordance with Supplemental Instructions for Shoreline Inspection.

The Mean High-Water Line, as reviewed during the fall 1944 field inspection, should be used for the compilation of the Map Manuscript.

8. MEAN LOW-WATER LINE:

The Mean Low-Water Line has not been identified on the field photographs.

9. WHARVES AND SHORELINE STRUCTURES:

All of the wharves, piers, and other shoreline structures, visible on the photographs, within the area of this Survey have been identified on the field photographs.

The character and condition of these piers and wharves have been noted on the photographs.



10. DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE:

All detail outside the Mean High-Water Line, revealed by photography, has been identified on the field photographs, accompanied by appropriate notes.

11. LANDMARKS AND AIDS TO NAVIGATION:

Thirteen previously charted Non-Floating Aids to Navigation, within the area of this Survey, were field inspected. Five of these Aids are horizontal control stations. Of these five control stations, three were positively identified and two were approximately identified on the field photographs. Their positions should be plotted photogrammetrically as a check against their Geographic Positions. Their names are as follows:

WARE POINT SHOAL LIGHT - Same as Triangulation Station WARE NECK POINT BEACON, 1910.

PERRIN RIVER ENTRANCE LIGHT - Same as Triangulation Station EAST BEACON, 1932.

ELLEN ISLAND LIGHT - Same as Triangulation Station MIDDLE BEACON, 1932.

PERRIN RIVER INNER LIGHT - Same as Triangulation Station WEST BEACON, 1932.

SARAH CREEK CHANNEL LIGHT - Same as Triangulation Station SARAH CREEK NORTHEAST BEACON, 1932.

Theodolite "cuts" were taken to the remaining eight Non-Floating Aids and two of them, namely: Severn River Lights<sup>3</sup> and Ware Point Shoal Light were also identified on the field photographs.

One Aeronautical Aid, NORFOLK-WASHINGTON AIRWAY BEACON No. 2 C.A.A., Skeleton Steel Tower approximately 65 feet high, has been identified on the field photographs.

One Landmark, namely Triangulation Station YELLOW HOUSE, SMALL TWO-STORY, EAST GABLE, 1932, is recommended for charting. Form No. 567 was previously submitted to the Washington Office by War Mapping Party No. 1.

*reported "lost" see p 13 this report*

12. HYDROGRAPHIC CONTROL:

Thirty-eight Recoverable Topographic Stations, which include twenty-nine Photo (Topographic) Stations, eight Non-Floating Aids to Navigation, and one Aeronautical Aid.

Form No. 524 has been submitted for each of these stations.

*see p. 14 this report 9 submitted*



13. LANDING FIELDS AND AERONAUTICAL AIDS:

There are no landing fields within the area of this Survey. One Aeronautical Aid is within the limits of this Survey, namely, C.A.A. NORFOLK-WASHINGTON AIRWAY BEACON No. 2. A more detailed description has been submitted on Form No. 524.

14. ROAD CLASSIFICATION:

Roads have been classified in accordance with the Army War College Circular, dated January 12, 1942, "Classification of Roads".

15. BRIDGES:

Several bridges are within the area of this Survey. These have been field inspected and noted on the photographs with their dimensions, capacity, and condition.

16. BUILDINGS AND STRUCTURES:

In accordance with the instructions, buildings not to be shown on the Map Manuscript, have been indicated on the field photographs. Public buildings have been identified and named.

17. BOUNDARY MONUMENTS AND LINES:

All political boundaries within the area of this Survey have been shown on the field photographs. These boundaries were obtained from existing local county maps and verified in the field.

18. GEOGRAPHIC NAMES:

This has been made the subject of a special report submitted by J. W. Stingley, Jr. Topographic Engineer, of War Mapping Field Party No. 1, dated May 1944.

19. AZIMUTH REFERENCE MARK:

NAXERA Azimuth reference Mark, 1942, r. 1944, has been identified on the field photographs.

*Field Inspector*  
*K.B. Roche*  
*M.C. Jenkins*

**RADIAL PLOT**  
**Sub-Project GS-289-W-2**

This Radial Plot includes the area of surveys for Topographic Manuscripts nos. T-8327, T-8328, T-8329, T-8330, and the portion of T-8341 and T-8342 south of the Piankatank River.

**PREPARATION OF PHOTOGRAPHS:**

Twenty-six nine lens unmounted 1:20,000 photographs covered the area of this radial plot and are listed in flights as follows:

Nos. 12578 to 12591, inclusive  
12628(1) to 12628(6), inclusive  
12648 to 12655, inclusive  
12681 to 12687, inclusive

All control stations, recovered and identified by a War Mapping Field Party, in the spring of 1944, and those by a sub-party in the fall of 1944, under the jurisdiction of the Baltimore Photogrammetric Office, were pricked on all of the above office photographs on which their corresponding control point appeared.

Azimuth and cross azimuth lines were drawn on all photographs.

A number of well-defined points were selected to be used as pass points. Enough were selected to assure at least three well-defined points in each chamber of every photograph.

**CONTROL:**

Thirty-one U. S. Coast and Geodetic Survey Triangulation Stations, 123 Virginia Fisheries Commission Triangulation Stations, and two U. S. Geological survey traverse stations were recovered by the Field Inspection Parties.

Twenty-Seven Horizontal (Control) Stations and Fifty-eight substitute stations of the above recovered stations were identified on the photographs for use as Horizontal (Control) Stations.

The geographic positions of the fifty-eight substitute stations were computed from data furnished by the Field Inspection Parties.

Attached to this Descriptive Report is the Identification Report, Classification of Horizontal (Control) Stations for the area of this Radial Plot.

PREPARATION OF MAP MANUSCRIPT PROJECTION:

Map Manuscript Projections for the area of the four Surveys Nos. T-8327, T-8328, T-8329, and T-8330, ruled with polyconic projections to a scale of 1:20,000, and with Virginia State grids for its respective area, were furnished the Compilation Office. The projections for Surveys Nos. T-8329 and T-8330 were made with extended northern limits to latitude  $37^{\circ} 34'$ , in order to include on them compilation of the area of that part of Surveys Nos. T-8340 and T-8341, south of the Piankatank River.

The Map Manuscript projections were ordered from the Washington Office after a partial scale plot, using some of the flights of nine lens photographs used in this Radial Plot, had been run, and a scale of 1:20,000 established as satisfactory.

All horizontal (control) stations and substitute stations recovered and identified on the photographs by the Field Inspection Parties were plotted and checked on the four Map Manuscript Projections.

4 The four Map Manuscript Projections were matched along their common meridians and parallels and joined together with transparent cellulose tape.

RADIAL PLOT:

The four joined Map Manuscript Projections were placed on the large radial plot table preparatory to running a radial plot by the usual celluloid templet method.

Due to the abundance of horizontal (control) stations, it was decided to run the radial plot without the use of celluloid templates and the radial plot was completed in the following manner:

Each photograph was oriented very carefully under the Map Manuscript Projection, holding to its respective horizontal (control) stations as much as possible. The radial center was then pricked and radials drawn directly on the Map Manuscript Projection through all the pass points, photo (Topographic) points, and bench points. Good intersections were obtained on all pass points, photo points, and bench points.

The Map Manuscript Projections were then separated. All photograph centers, the intersection of all pass points, photo points, and bench points, established during the running of the radial plot, were pricked and circled on the glossy side of the respective Map Manuscript Projection on which each fell.

The positions of the photographic centers, and all control points established during the running of this radial plot are believed to be within 0.5 millimeter of their true geographic positions.



REMARKS:


During the running of the radial plot, two horizontal (control) stations could not be held to. A report of this fact was forwarded to the Washington Office on January 11, 1945. These two stations were GINNY (V.F.C.) 1920 and IRVING (V.F.C.) 1930.

Investigation by the Washington Office verified the assumption of the Compilation Office that the geographic position furnished for station GINNY (V.F.C.) 1920, was actually that of GINNY B (V.F.C.).

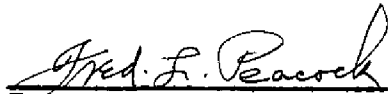
Additional field data on triangulation station IRVING (V.F.C.) 1930, was furnished the Washington Office by the Sub-Party of Lieutenant Dale E. Sturmer. Computation of this data shows that the geographic position is that of the old station near IRVING (V.F.C.) 1930.

Using the geographic positions of these two stations for that of the old stations, they were then satisfactorily held to.

Respectfully Submitted:  
November 15, 1945

  
Joseph Steinberg,  
Photogrammetric Engineer

Approved and Forwarded:  
November 30, 1945

  
Fred. L. Peacock  
Chief of Party, C. & G. Survey  
Officer-in-Charge,  
Baltimore Photogrammetric Office

1944  
IDENTIFICATION REPORT  
HORIZONTAL REPORT  
Sub-Project No. CS-289-W-2

<u>Station</u>	<u>U.S.G.S. Quadrangle</u>	<u>Recovery Date</u>	<u>Pricking Data</u>
* BROWN, 1932	Mathews	12/23/43	Positive
* CEDAR (VFC) 1930	Mathews	4/8/44	Positive
CUBA 1932	Mathews	12/8/43	Positive
LITTLE RICHMOND WHITE			
WOODEN TANK, 1932	Mathews	12/8/43	Positive
* MARSHALL (VFC), 1930	Mathews	4/28/44	Positive
* MUD (VFC) 1930	Mathews	5/3/44	Positive
* NAXERA, 1942	Mathews	4/28/44	Positive
* POINT (VFC), 1930	Mathews	4/25/44	Positive
* THORN (VFC), 1930	Mathews	4/28/44	Positive
* WARE (VFC), 1930	Mathews	5/3/44	Positive
* VAUGHN (VFC) 1930	Mathews	5/4/44	Positive
* WINDMILL (VFC) 1930	Mathews	5/1/44	Positive
* QUARTER 2, 1906	Mathews	12/23/43	Positive
BRICK HOUSE SOUTH CHIMNEY, 1906	Mathews	11/28/44	Positive
** GREENE, 1932	Mathews	Unknown	Not pricked
LITTLE RICHMOND HOTEL, SOUTH			
SIDE CENTER GABLE (HOUSE G)			
1932	Mathews	Unknown	Not pricked
** DOUBLE, 1906	Mathews	Destroyed	-
** MID, 1905	Mathews	Destroyed	-
** MINOR, 1906	Mathews	Destroyed	-
** RED, 1906	Mathews	Destroyed	-
** YELLOW HOUSE SMALL TWO STORY			
EAST GABLE, 1932	Mathews	Destroyed	-
** BROAD (VFC) 1930	Mathews	Unknown	Not pricked
** BUCK, (VFC) 1930	Mathews	Unknown	Not pricked
** BRYAN (VFC) 1930	Mathews	Unknown	Not pricked
** COCKLIN (VFC) 1930	Mathews	Unknown	Not pricked
** COD (VFC) 1930	Mathews	Unknown	Not pricked
** ELLEN 1906	Mathews	Unknown	Not pricked
** HEYWARD (VFC) 1930	Mathews	Unknown	Not pricked
** GAB 1932	Mathews	Unknown	Not pricked
** HOUSE D PROMINENT WHITE			
BUNGALOW, CENTER, GABLED			
WINDOW, 1932	Mathews	Unknown	Not pricked
** HOUSE TWO-STORY YELLOW, JUST			
EAST OF GAINES POINT SOUTH			
GABLE 1932 n.d.	Mathews	Unknown	Not pricked
** HOUSE F PROMINENT WHITE NEAR			
MOUTH OF SARAH CREEK 1932			
(n.d.)	Mathews	Unknown	Not pricked

<u>Station</u>	<u>U. S. G. S. Quadrangle</u>	<u>Recovery Date</u>	<u>Pricking Data</u>
* IRVING (VFC) 1920 <sup>30</sup>	Mathews	2/23/45	Positive
** LOCUST (VFC) 1930	Mathews	Unknown	Not pricked
** MANSE (VFC) 1930	Mathews	Unknown	Not pricked
** OLD COLONIAL HOUSE, EAST GABLE 1911, n.d.	Mathews	Unknown	Not pricked
** PERRIN (VFC) 1930	Mathews	Unknown	Not pricked
** ROUSE (VFC) 1930	Mathews	Unknown	Not pricked
** SCHOOL (VFC) 1930	Mathews	Unknown	Not pricked
** STONEWALL (VFC) 1930	Mathews	Unknown	Not pricked
** STUMP (VFC) 1930	Mathews	Unknown	Not pricked
** SPENCER (VFC) 1930	Mathews	Unknown	Not pricked
** WALTER (VFC) 1930	Mathews	Unknown	Not pricked
** WEST (VFC) 1930	Mathews	Unknown	Not pricked
** WHITE HOUSE SOUTHEAST CHIMNEY 1932 n.d.	Mathews	Unknown	Not pricked
** ARCHIE (VFC) 1930	Mathews	Not found	N -
** BAR A (VFC) 1930	Mathews	Not found	-
** BAR B (VFC) 1930	Mathews	Not found	-
** BUSH 1910	Mathews	Not found	-
** DEAD TREE 1905 n.d.	Mathews	Not found	-
** FLAGPOLE 1932	Mathews	Not found	-
** NEDS (VFC) 1930	Mathews	Not found	-
** POINT 2, 1910	Mathews	Not found	-
** SANDY, 1906	Mathews	Not found	-
** SEVERN, 1905	Mathews	Not found	-
** SQUARE, 1906	Mathews	Not found	-
* ARMISTEAD (VFC) 1937	Mathews	4/22/44	Positive
* EAST, 1936	Mathews	1/25/45	Positive
* LOWER, 1905	Mathews	4/21/45	Positive
* GUIN REFERENCE POINT (VFC) 1924	Mathews	5/12/44	Positive
NEW POINT COMFORT LIGHTHOUSE, 1871	Mathews	6/15/44	Positive
* ROUND, 1905	Mathews	4/21/44	Positive
* THOMAS (VFC) 1937	Mathews	10/25/45	Positive
* THOMAS 1932	Mathews	4/21/44	Positive
** GUIN, 1910	Mathews	Not found	-
** DOUBLE WHITE HOUSE, NORTH GABLE, 1905	Mathews	Not found	-
** MONDAY, 1906	Mathews	Not found	-
** PIER HEAD N.E., 1905	Mathews	Not found	-
** POND (VFC) 1937	Mathews	Not found	-
** SECOND, 1905	Mathews	Not found	-
** ALMA (VFC) 1937	Mathews	9/28/44	Positive
** BAUCKAGES (VFC) 1937	Mathews	Unknown	Not pricked
** BENDALL (VFC) 1937	Mathews	Unknown	Not pricked
* BILLUPS (VFC) 1920	Mathews	10/20/44	Positive
** BOB (VFC) 1937	Mathews	Unknown	Not pricked
** BOAT (VFC) 1937	Mathews	Unknown	Not pricked
* BOHANNON, 1932	Mathews	Unknown	Positive
** BOHANNON 2, 1942	Mathews	Unknown	Not pricked

<u>Station</u>	<u>U.S.G.S. Quadrangle</u>	<u>Recovery Date</u>	<u>Pricking Data</u>
** BUDDY (VFC) 1920	Mathews	Not found	-
** BROCK (VFC) 1920	Mathews	Lost	-
** BROWNLEY (VFC) 1937	Mathews	Unknown	Not pricked
** CALLIS (VFC) 1920	Mathews	Lost	-
* CARL (VFC) 1941	Mathews	5/2/44	Positive
** COCKEREL (VFC) 1920	Mathews	Not found	-
** CORD (VFC) 1920	Mathews	Not found	-
** CRANK (VFC) 1920	Mathews	Not found	-
* EDWARDS (VFC) 1920	Mathews	9/15/44	Positive
** FARE (VFC) 1920	Mathews	Unknown	Not pricked
** GARNETT (VFC) 1937	Mathews	Unknown	Not pricked
* GEORGE (VFC) 1941	Mathews	5/2/44	Positive
** GUM (VFC) 1920	Mathews	Lost	-
** HALL (VFC) 1937	Mathews	Not found	-
** HAZEL (VFC) 1937	Mathews	Unknown	Not pricked
** HILL (VFC) 1937	Mathews	Not found	-
HOOK (VFC) 1920	Mathews	9/25/44	Positive
* HUGHES (VFC) 1937	Mathews	4/24/44	Positive
** HUNLEY (VFC) 1937	Mathews	Unknown	Not pricked
* JOE (VFC) 1920	Mathews	4/25/44	Positive
** LANE (VFC) 1920	Mathews	Not found	-
** LEVY (VFC) 1920	Mathews	1/24/45	Positive
* MACHEM (VFC) 1937	Mathews	Unknown	Not pricked
** MARSH (VFC) 1920	Mathews	Unknown	Not pricked
MATHEWS LOOKOUT TOWER, 1942	Mathews	6/20/44	Positive
* MILES (VFC) 1937	Mathews	9/27/44	Positive
** MILL (VFC) 1920	Mathews	Not found	-
* MOORE (VFC) 1937	Mathews	4/22/44	Positive
** NAT (VFC) 1937	Mathews	Unknown	Not pricked
* NEXT (VFC) 1920	Mathews	4/22/44	Positive
** POPLAR (VFC) 1937	Mathews	Unknown	Not pricked
** PUT IN (VFC) 1937	Mathews	Unknown	Not pricked
** RAINES (VFC) 1937	Mathews	Unknown	Not pricked
** ROCK (VFC) 1920	Mathews	Unknown	Not pricked
** SAND (VFC) 1920	Mathews	Not found	-
** SHARP (VFC) 1937	Mathews	Unknown	Not pricked
** SHINAULT (VFC) 1937	Mathews	Unknown	Not pricked
** SOMERS (VFC) 1937	Mathews	Unknown	Not pricked
* SOPER (VFC) 1937	Mathews	4/22/44	Positive
** SPITZER (VFC) 1937	Mathews	Unknown	Not pricked
** SPOAKES (VFC) 1937	Mathews	Unknown	Not pricked
** TANK (VFC) 1937	Mathews	Unknown	Not pricked
** THURSTON (VFC) 1937	Mathews	Unknown	Not pricked
** UP (VFC) 1937	Mathews	Unknown	Not pricked
** WARE (VFC) 1937	Mathews	Unknown	Not pricked
** WASH (VFC) 1920	Mathews	Not found	-
* WHARF (VFC) 1937	Mathews	9/27/44	Positive
** WILLIAMS (VFC) 1937	Mathews	Unknown	Not pricked
* ADAMS (VFC) 1936	Mathews	Unknown	Not pricked
** AUBURN (VFC) 1936	Mathews	Lost	-

<u>Station</u>	<u>U.S.G.S. Quadrangle</u>	<u>Recovery Date</u>	<u>Pricking Data</u>
** AUBURN REF. PT. (VFC) 1936	Mathews	Unknown	Not pricked
** BAILEY (VFC) 1930	Mathews	Unknown	Not pricked
** BLACK (VFC) 1936	Mathews	Unknown	Not pricked
* CEDAR (VFC) 1936	Mathews	4/24/44	Positive
** COTTAGE (VFC) 1930	Mathews	Not found	-
** CRADLE (VFC) 1936	Mathews	Unknown	Not pricked
* DARLING (VFC) 1936	Mathews	4/24/44	Positive
** EAST (VFC) 1936	Mathews	Unknown	Not pricked
** EVANS (VFC) 1930	Mathews	Not found	-
* GINNY (VFC) 1920	Kilmarnock	5/5/44	Positive
* GLEBE (VFC) 1930	Mathews	4/26/44	Positive
** GLENROY (VFC) 1930	Mathews	Unknown	Not pricked
** GREEN (VFC) 1936	Mathews	Unknown	Not pricked
** HALL (VFC) 1930	Mathews	Unknown	Not pricked
* HICKS (VFC) 1936	Mathews	10/3/44	Positive
** HILL (VFC) 1936	Mathews	unknown	Not pricked
** HOCKLEY (VFC) 1930	Mathews	Not found	-
** HOOD (VFC) 1936	Mathews	Unknown	Not pricked
* HORSE (VFC) 1936	Mathews	4/25/44	Positive
** HOT (VFC) 1936	Mathews	Unknown	Not pricked
* JAMES 1942	Mathews	5/9/44	Positive
** JARVIS (VFC) 1930	Mathews	Not found	-
** LANDING (VFC) 1930	Mathews	Unknown	Not pricked
** LAST (VFC) 1936	Mathews	Unknown	Not pricked
* LONE (VFC) 1936	Mathews	4/29/44	Positive
** LOTHIAN (VFC) 1936	Mathews	Not found	-
** NORTH (VFC) 1905	Mathews	Not found	-
* NORTH 1905 (VFC) REF. MK.	Mathews	4/24/44	Positive
** OAK (VFC) 1936	Mathews	Unknown	Not pricked
** OLD (VFC) 1936	Mathews	Unknown	Not pricked
** PERLIN (VFC) 1930	Mathews	Not found	-
* PERSIMMON (VFC) 1936	Mathews	1/25/45	Positive
PIANKARANK 20 (VFC) 1932	Kilmarnock	5/3/44	Positive
* PIANKARANK 26 (VFC) 1932	Kilmarnock	5/3/44	Positive
** PIG (VFC) 1930	Mathews	Not found	-
** RED (VFC) 1936	Mathews	Not found	-
* REED (VFC) 1936	Mathews	10/14/44	Positive
** SAND (VFC) 1936	Mathews	Unknown	Not pricked
* SPIT (VFC) 1936	Mathews	10/14/44	Positive
** TABB (VFC) 1936	Mathews	Unknown	Not pricked
* TALLA (VFC) 1936	Mathews	4/35/44	Positive
* THOMAS (VFC) 1930	Mathews	4/26/44	Positive
* THOMAS (VFC) 1936	Mathews	11/2/44	Positive
** TODD (VFC) 1936	Mathews	Unknown	Not pricked
** TURN (VFC) 1936	Mathews	Unknown	Not pricked
* WEAVER (VFC) 1930	Mathews	4/28/44	Positive
* WEST (VFC) 1936	Mathews	4/24/44	Positive
AIRWAY BEACON #4 WASH. D.C. NORFOLK, Va. 1942	Kilmarnock	3/29/44	Positive

<u>Station</u>	<u>U.S.G.S. Quadrangle</u>	<u>Recovery Date</u>	<u>Pricking Data</u>
* CARMINES 2 1911, 1932	Williamsburg	5/24/44	Positive
* CLAYBANK 2, 1911	Williamsburg	5/30/44	Positive
* GREEN POINT 2 1911, 1932	Williamsburg	5/30/44	Positive
* GUM FORK, 1942	Williamsburg	5/13/44	Positive
* ROSEWELL 2, 1911	Williamsburg	5/30/44	Positive
MJM 1911, REFERENCE MARK No. 3, 1932	Williamsburg	12/9/43	Positive
NAVY MINE DEPOT SQUAT TANK, 1942	Williamsburg	12/27/43	Positive
NAVY MINE DEPOT TANK, 1942	Williamsburg	12/27/43	Positive
PENNIMAN TANK, 1942	Williamsburg	12/27/43	Positive
GLOUCESTER MUNICIPAL WATER TANK, 1942	Williamsburg	11/3/44	Positive
ARK LOOKOUT TOWER, 1942	Williamsburg	5/16/44	Positive
* WOODS, 1942	Williamsburg	5/16/44	Positive
CASH, 1942	Urbana	3/28/44	Positive
PTS No. 1, 1916	Urbana	3/23/44	Positive
* PIANKATANK 15, 1932	Kilmarnock	5/3/44	Positive
PIANKATANK 10, 1932	Kilmarnock	5/3/44	Positive
* PIANKATANK 9, 1932	Kilmarnock	5/3/44	Positive
* PIANKATANK 8, 1932	Kilmarnock	5/3/44	Positive
* WILTON "A"	Kilmarnock	4/18/44	Positive
* STAMPERS, 1942	Kilmarnock	3/30/44	Positive
STINGRAY LT. HD. 1909	Kilmarnock	4/22/44	Positive
STOVE "R" 1920	Kilmarnock	4/14/44	Positive
IRON 1920	Kilmarnock	5/2/44	Positive
* GRINNELLS, 1921	Kilmarnock	4/17/44	Positive
BOSS, 1920	Kilmarnock	4/11/44	Positive
* FORT, 1906	Yorktown	Unknown	Positive
TUE MARSH L.H. 1900	Hampton	Unknown	Positive

\* Identified by a well-defined substitute station. The positions of these substitute stations have been shown on the reverse side of the Map Manuscript with a small orange ink circle.

\*\* Not used to control the radial plot.

COMPILATION REPORT  
MAP MANUSCRIPT, SURVEY No. T-8327

CHESAPEAKE BAY - MOBJACK BAY  
YORK RIVER - WARE RIVER  
Project No. CS-289-W-2

26. CONTROL:

The Field Inspection Party recovered and identified, on the 1:20,000 field photographs, the following Horizontal Control Stations:

Those within the limits of the Map Manuscript are:

- BRICK HOUSE, SOUTH CHIMNEY, 1906, 1914, r. 1944
- \* BROWN, 1932, r. 1944
- \* CEDAR (V.F.C.), 1930, r. 1944
- \* CUBA, 1932, r. 1944
- \* IRVING (V.F.C.) 1932, r. 1944, r. 1945 } See Report filed at back of this Report
- LITTLE RICHMOND HOTEL, SOUTH SIDE, CENTER CABLE, 1932, r. 1944 no card
- LITTLE RICHMOND WHITE WOODEN TANK, 1932, r. 1944
- \* MARSHALL (V.F.C.) 1930, r. 1944
- \* MUD (V.F.C.) 1930, r. 1944
- \* NAXERA, 1942, r. 1944
- \* POINT (V.F.C.) 1930, r. 1936, r. 1944
- QUARTER 2, 1906, r. 1944
- \* THORN (V.F.C.) 1930, r. 1944
- \* VAUGHN (V.F.C.) 1930, r. 1944
- \* WARE (V.F.C.) 1930, r. 1944
- \* WINDMILL (V.F.C.) 1920, r. 1944

Those outside the limits of the Map Manuscript are:

- \* EAST 1905, r. 1944
- \* GUIN REFERENCE MARK (V.F.C.) 1924, r. 1944
- \* HORSE (V.F.C.) 1936, r. 1944
- \* PERSIMMON (V.F.C.) 1936, r. 1944
- \* THOMAS (V.F.C.) 1930, r. 1944
- \* QUARTER POINT 1855, r. 1944

- \* Identified by a well-defined substitute station. The positions of these substitute stations have been shown on the reverse side of the Map Manuscript with a 2½ m.m. orange ink circle.

All of the above horizontal control stations were used to control the radial plot.

WARE NECK POINT BEACON 1910, whose approximate identification was shown on the field photographs by the Field Inspection Party, was also used to control the Radial Plot. This station was identified on the office photographs in the Baltimore Compilation Office.



27. RADIAL PLOT:

The radial plot for this Map Manuscript is part of the Radial Plot for Project No. CS-289-W-2. Satisfactory results were obtained. The Descriptive Report for this Radial Plot was submitted to the Washington Office November 30, 1945. *It was attached to this report later*

28. DETAILING:

The field data, horizontal control stations, and horizontal pass points available for the compilation of this Survey were adequate.

The photographic coverage of this survey was satisfactory.

All delineation was accomplished in accordance with the field data and careful office interpretation of the photographs.

All drainage wide enough to show both shores to advantage has been shown in black acid ink. All other drainage has been shown with a single line in blue acid ink with the standard symbols for perennial and intermittent streams.

Tree areas have been shown with a symbol in green acid ink and classified according to instructions received from the Washington Office.

29. SUPPLEMENTAL DATA:

The following previous topographic surveys of the area of this Map Manuscript have been made by the U. S. Coast and Geodetic Survey:

T-496	1853-54	1:20,000
T-504	1863	1:20,000
T-685	1857	1:20,000
T-685a	1911	1:20,000
T-1101	1860-68	1:20,000
T-2715	1905-06	1:20,000
T-2716	1905-06	1:20,000
T-2745	1906	1:20,000
T-4682	1932	1:10,000
T-4712	1933	1:5,000

None of these previous surveys were available to the Compilation Office.

30. MEAN HIGH-WATER LINE:

The Mean High-Water Line bordering along firm ground has been detailed in accordance with the field inspection data and is shown with a heavy-weight black acid ink line. The outer limits of marsh areas bordering the Mean High-Water Line, have been shown with a full light-weight black acid ink line and the included area detailed with the conventional marsh symbol.



30. MEAN HIGH-WATER LINE: (Cont'd.)

The Mean High-Water Line and the marsh lines have been detailed in accordance with the field inspection data as furnished by the Field Sub-Party operating in the fall of 1944, with slight modifications resulting from a recheck by Lieutenant Dale E. Sturmer in early 1945. (See Side Heading No. 2 of this Descriptive Report).

31. LOW-WATER AND SHOAL LINES:

The approximate position of the Mean Low-Water Line was not shown on the Map Manuscript as no field data was furnished the Compilation Office.

The approximate limits of shoal areas were detailed in accordance with the field data and are shown with a short dashed black acid ink line, accompanied by the note "Shoal".

32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

The offshore details include wrecks and numerous piling. All of these details have been shown in accordance with field inspection data.

33. WHARVES AND SHORELINE STRUCTURES:

All wharves, piers, fences, jetties, and other shoreline structures have been shown in accordance with field inspection data and accompanied with descriptive notes.

34. LANDMARKS AND AIDS TO NAVIGATION:

Thirteen Non-Floating Aids to Navigation, previously charted, and one Landmark, the existence of which were verified by the Field Inspection Party in 1944, lie within the detail limits of this Map Manuscript.

Eight of these previously charted Aids to Navigation are shown on the Map Manuscript with  $2\frac{1}{2}$  millimeter black acid ink circles. Five are Triangulation Stations, four of which are shown with standard triangulation symbols and the fifth is shown with a  $2\frac{1}{2}$  millimeter circle. These Aids to Navigation are shown on the Map Manuscript with name and character of light as taken from the 1945 Light List.

The Landmark, namely: NORFOLK-WASHINGTON AIRWAY BEACON No. 2, is shown on the Map Manuscript with a  $2\frac{1}{2}$  millimeter circle.

The positions of the eight previously charted Fixed Aids to Navigation for which triangulation positions were not available, were determined by theodolite cut locations. The geographic positions of the other five fixed Aids to Navigation were plotted and checked photogrammetrically. Four of these



34. LANDMARKS AND AIDS TO NAVIGATION: (Cont'd.)

were found to be in good agreement with their plotted geographic positions and the fifth, namely: PERRIN RIVER ENTRANCE LIGHT, Fl. W. 5 sec., was found to disagree with its plotted position by approximately 22 meters. This Beacon has evidently been reconstructed in its present location.

The positions of these Non-Floating Aids to Navigation and Landmark are being submitted on Form No. 567, except for the following:

WARE POINT SHOAL LIGHT, F.R.  
ELLEN ISLAND LIGHT, Fl. W. 5 sec.  
PERRIN RIVER INNER LIGHT, Fl. R. 5 sec.  
SARAH CREEK CHANNEL LIGHT, Fl. R. 5 sec.

The names and light characteristics of these thirteen Non-Floating Aids to Navigation are as follows: (*See also Field Edit Report, P 11. & Revised Report P 34*)

*from 5-24*  
ISLAND POINT SPIT LIGHT, F.R. *ok*  
WINDMILL POINT SHOAL LIGHT, F. W. *ok*  
SEVERN RIVER LIGHT, F.W. *1907 1932*  
SEVERN RIVER LIGHT 1, Fl. W., 5 sec. *"off"*  
SEVERN RIVER LIGHT 3, Fl. W., 5 sec. *ok*  
BROWNS BAY LIGHT 1, Fl. G., 5 sec.  
BROWNS BAY LIGHT 3, Fl. W., 5 sec. *"H"*  
BROWNS BAY LIGHT 4, Fl. R., 5 sec.  
WARE POINT SHOAL LIGHT, F.R. also Triangulation Station  
WARE NECK POINT BEACON, 1910.  
PERRIN RIVER ENTRANCE LIGHT, Fl. W., 5 sec. also Triangulation Station EAST BEACON, 1932. *"H"*  
ELLEN ISLAND LIGHT, Fl. W., 5 sec., also Triangulation Station MIDDLE BEACON, 1932. *ok*  
PERRIN RIVER INNER LIGHT, Fl. R., 5 sec., also Triangulation Station WEST BEACON, 1932. *ok*  
SARAH CREEK CHANNEL LIGHT, Fl. R., 5 sec., also Triangulation Station SARAH CREEK NORTHEAST BEACON, 1932. *ok*

*to form 567*

Landmark, "Lone Tree" to be deleted. Form No. 567 has been previously submitted, June 29, 1944, by F. L. Gallen, Chief, War Mapping Party No. 1.

Triangulation Station YELLOW HOUSE, SMALL TWO-STORY, EAST GABLE, 1932 was recommended as a Landmark to be charted, by F. L. Gallen, Chief of War Mapping Party No. 1. Form No. 567, dated June 29, 1944, has been previously submitted with the field Descriptive Report submitted by F. L. Gallen, Chief of Party, for Project No. CS-289-W, Virginia.

However, in this same report under "Accuracy of Identification Report, classification of Horizontal Control for the area of Main Radial Plot No. 11, CS-289 (South) Sheet No. T-8327", Triangulation Station YELLOW HOUSE, SMALL TWO-STORY, EAST GABLE, 1932, is reported as destroyed.

*Recovery card submitted says "No house now standing in this location" and signed H C Jenkins 5/14/44*  
*LTS*



34. LANDMARKS AND AIDS TO NAVIGATION: (Cont'd.)

The geographic position of this station falls in an all-water area and it is believed by this Compilation Office that the Station no longer exists.

It may be that Lieutenant Commander F. L. Gallen intended to recover this Landmark for deletion rather than for charting. The apparent discrepancy should be investigated at the time of field edit. *No comment by Field Edit. See note in red at bottom of p. 13*

35. HYDROGRAPHIC CONTROL:

Forms No. 524 are being submitted for 43 Photo (Topographic) Stations and eight Theodolite Stations.

In addition to the 13 Non-Floating Aids to Navigation listed in Heading No. 34, (four of which are Triangulation Stations for which Form No. 524 is not being submitted), the following are believed to be of value as partial hydrographic control for any future hydrographic survey as long as they remain in position. Namely:

C.A.A. NORFOLK-WASHINGTON AIRWAY

BEACON 2

ACT, 1944	JENK, 1944	SOUTH TANK, 1944
BAD, 1944	LEVEL, 1944	T.B.M. 1
BEY, 1944	MALV, 1944	TEE, 1944 <i>(No longer valuable. No. moved 50° see F. Edit p. 1)</i>
BLAKE, 1944	MORG, 1944	UNION, 1944
DAHL, 1944	NORTH TANK, 1944	WEST, 1944
DAR, 1944	PERR, 1944	WHIT, 1944
END, 1944	PITTS, 1944	WHITE, 1944
FIP, 1944 <i>Field Edit Map</i>	ROWE, 1944	WILLIE, 1944
GOOD, 1944 <i>washed away (1946)</i>	SELL, 1944	WOOD, 1944
HEY, 1944	SILV, 1944	YORKBY, 1944

The remaining eleven Photo (Topographic) Stations, of which ten are Bench Marks and one an Azimuth Reference Mark, are within the limits of this Map Manuscript. It is believed that these are too far inland for use as hydrographic control. *Naxera*

36. LANDING FIELDS AND AERONAUTICAL AIDS:

C.A.A. NORFOLK-WASHINGTON AIRWAY BEACON 2, a Photo (Topographic) Station, is within the limits of this Map Manuscript.

38. GEOGRAPHIC NAMES:

The results of a geographic names investigation were furnished the Compilation Office on a copy of the U. S. Geological Survey, Mathews, Va., 15 minute Quadrangle, and a special report on investigation of geographic names, dated May 1944, submitted by Lieutenant Commander F. L. Gallen. A list of the Geographic Names is attached to this report. *814*



39. HORIZONTAL ACCURACY:

The horizontal accuracy of this Map Manuscript is believed to be within the limits set forth for well-defined and less well-defined points of detail.

Believed to be within 0.5 m.m.

40. RECOMMENDATIONS FOR FUTURE SURVEYS:

The topography as presented on this Map Manuscript is believed to be complete, but is subject to corrections, additions, and deletions at the time of the field edit.

41. REMARKS:

The description, as furnished in the Field Report, adequately describes the area of this Map Manuscript.

42. JUNCTIONS:

Satisfactory junctions have been made with the following:

To the north with Map Manuscript for Survey No. T-8330. ✓  
To the east with Map Manuscript for Survey No. T-8328. ✓  
To the south with Map Manuscript for Survey No. T-8316. ✓

The junction with Map Manuscript for Survey No. T-8326 to the west should be made when this survey is compiled at the Washington Office.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

U. S. Geological Survey, Mathews, Virginia, 15 Minute Quadrangle, scale 1:62,500, edition of 1917, reprinted 1944.

In general, planimetry common to the Quadrangle and to the Map Manuscript are in good agreement, except that on the Topographic Quadrangle, Cuba Island is shown as part of the mainland but on the Map Manuscript it is shown as an island.

Minor differences are discussed in the "Notes to Reviewer" attached to this Descriptive Report.

45. COMPARISON WITH NAUTICAL CHARTS:


U. S. Coast and Geodetic Survey Chart No. 494, scale 1:40,000, published at Washington, D. C., September 1943, corrected to August 17, 1944. (Common area).

U. S. Coast and Geodetic Survey Chart No. 492, scale 1:20,000, published at Washington, D. C., March 1938, reissued October 1938, corrected to March 6, 1944. (Common area).

Details common to the Map Manuscript and to the Chart are, in general, in good agreement.

The positions of seven of the nine Non-Floating Aids to Navigation shown on the Map Manuscript do not agree exactly with their positions as shown on the Nautical Chart. New positions are being submitted for all of these Non-Floating Aids to Navigation on Form No. 567. *(See also Review Report)*

Minor differences between the Map Manuscript and the above mentioned charts are discussed in the "Notes to Reviewer" and "Notes for Hydrographic Party".



See next page

Respectfully Submitted,  
January 25, 1946

John M. Reinoldi  
John M. Reinoldi,  
Photogrammetric Aid

Map Manuscript and Descriptive  
Report reviewed By:

Albert C. Rauck, Jr.  
Albert C. Rauck, Jr.,  
Photogrammetric Aid.

Compilation of Map Manuscript  
Supervised By:

Harry R. Rudolph  
Harry R. Rudolph,  
Photogrammetric Aid

Approved and Forwarded:  
January 30, 1946

Fred. L. Peacock  
Fred. L. Peacock  
Commander, C. & G. Survey  
Officer-in-Charge,  
Baltimore Photogrammetric Office



1944  
IDENTIFICATION REPORT

HORIZONTAL CONTROL  
MAP MANUSCRIPT, SURVEY No. T-8327  
Project No. CS-289

Station	U.S.G.S. Quadrangle	Recovery Date	Pricking Data
1. * BROWN, 1932 ✓	Mathews, Va.	11-23-43	Positive
2. * CEDAR (V.F.C.) 1930 ✓	"	5-8-44	Positive
3. CUBA, 1932 ✓	"	12-8-43	Positive
4. LITTLE RICHMOND WHITE WOODEN TANK, 1932 ✓	"	12-8-43	Positive
5. * MARSHALL (V.F.C.) 1930 ✓	"	4-28-44	Positive
6. * MUD (V.F.C.) 1930 ✓	"	5-3-44	Positive
7. * NAXERA, 1942 ✓	"	4-28-44	Positive
*** POINT (V.F.C.) 1930 ✓	"	4-25-44	Positive
9. * THORN (V.F.C.) 1930 ✓	"	4-28-44	Positive
10. * WARE (V.F.C.) 1930 ✓	"	5-3-44	Positive
11. * VAUGHN (V.F.C.) 1930 ✓	"	5-4-44	Positive
12. * WINDMILL (V.F.C.) 1930 ✓	"	5-1-44	Positive
13. * QUARTER 2, 1906 ✓	"	12-23-43	Doubtful
14. ** BRICK HOUSE, SOUTH CHIMNEY, 1906, r. 1914 ✓ 14	"	11-28-44	Not pricked
15. ** GREENE, 1932 ✓	"		Not pricked
** LITTLE RICHMOND HOTEL S. SIDE CENTER GABLE (HOUSE G.) 1932 ✓ <i>card reads "House at Little Richmond" p. 558</i>	"	11-25-44	Not pricked
16. ** BRAD (V.F.C.) 1930 ✓	"	5-44	Not pricked
17. ** BUCK (V.F.C.) 1930 ✓	"	5-44	Not pricked
18. ** BRYAN (V.F.C.) 1930 ✓	"	5-44	Not pricked
19. ** COCKLIN (V.F.C.) 1930 ✓	"	5-44	Not pricked
20. ** COD (V.F.C.) 1930 ✓	"	5-44	Not pricked
21. ** ELLEN, 1906, r. 1932 ✓	"	5-44	Not pricked
22. ** HEYWARD (V.F.C.) 1930 ✓	"	5-44	Not pricked
23. ** HOUSE "D" PROMINENT WHITE BUNGALOW, CENTER GABLED WINDOW, 1932 ✓ <i>p. 558, also called "GAB"</i>	"	5-44	Not pricked
24. ** HOUSE "E" 2 STORY YELLOW HOUSE JUST E. OF GAINES POINT, S. GABLE, 1932 ✓	"	5-44	Not pricked
25. ** HOUSE "F" PROMINENT WHITE HOUSE NEAR MOUTH OF SARAH CREEK, 1932 ✓	"	5-44	Not pricked
26. * IRVING (V.F.C.) 1930 ✓ <i>Irving (Topo 1906) was the one recovered - not Irving 1930. See report at back of this report.</i>	"	2-23-45	Positive
27. ** LOCUST (V.F.C.) 1930 ✓	"	5-44	Not pricked
28. ** MANSE (V.F.C.) 1930 ✓	"	5-44	Not pricked
29. ** OLD COLONIAL HOUSE, E. GABLE, 1911 <i>not plotted same house as #14 above</i>	"	5-44	Not pricked
30. ** PERRIN (V.F.C.) 1930 ✓	"	5-44	Not pricked
31. ** ROUSE (V.F.C.) 1930 ✓	"	5-44	Not pricked
32. ** SCHOOL (V.F.C.) 1930 ✓	"	5-44	Not pricked
33. ** STONEWALL (V.F.C.) 1930 ✓	"	5-44	Not pricked
34. ** STUMP (V.F.C.) 1930 ✓	"	5-44	Not pricked
35. ** SPENCER (V.F.C.) 1930 ✓	"	5-44	Not pricked
36. ** WALTER (V.F.C.) 1930 ✓	"	5-44	Not pricked
37. ** WEST (V.F.C.) 1930 ✓	"	5-44	Not pricked
38. ** WHITE HOUSE S.E. CHIMNEY, 1932 <i>GP. p. 545 Field Edit. Rpt. p. 1, says no house</i>	"	5-44	Not pricked
39. SARAH CREEK NORTHEAST BEACON, 1932	"	5-44	Positive
40. WARE NECK POINT BEACON, 1910 <i>no card</i>	"	5-44	Positive

Jones (VFC) 1930

GP P 647  
p. 503



Station	U.S.G.S. Quadrangle	Recovery Date	Pricking Data
<del>BUCE (V.F.C.) 1930</del>	Mathews, Va.	<del>5-44</del>	<del>Not pricked</del>
42 MIDDLE BEACON, 1932	"	11-3-44	Positive
43 EAST BEACON, 1932	"	11-3-44	Positive
44 WEST BEACON, 1939	"	11-3-44	Not pricked
** DOUBLE, 1906 <i>no card</i>	"	Lost	
** MID, 1905	"	Lost	
** MINOR, 1906	"	Lost	
** RED, 1906 <i>no card</i>	"	Lost	
** YELLOW HOUSE, SMALL TWO-STORY EAST.			
GABLE, 1932	"	Lost	
** ARCHIE (V.F.C.) 1930	"	Not found	
** BAR A (V.F.C.) 1930	"	Not found	
** BAR B (V.F.C.) 1930	"	Not found	
** BUSH, 1910	"	Not found	GP p. 647
** DEAD TREE, 1905	"	Not found	
** FLAGPOLE, 1932	"	Not found	
** NEDS (V.F.C.) 1930	"	Not found	
** POINT 2, 1910 <i>no card</i>	"	Not found	GP p. 647
** SANDY, 1906 <i>no card</i>	"	Not found	
** SEVERN, 1905	"	Not found	
** SQUARE, 1906	"	Not found	

*Wave 1905*

*Turtle (VFC) 1930*

*Irving (1906) 1930*

" 1945-Found.

- \* Identified by a substitute station. The positions of these substitute stations have been shown on the reverse side of the Map Manuscript with a small orange ink circle.
- \*\* Not used to control the radial plot.
- \*\*\* Substitute station not used in radial plot.



# NONFLOATING AIDS OR LANDMARKS FOR CHARTS

~~TO BE DELETED~~

**STRIKE OUT ONE**

Baltimore Md. Jan 23 1946

I recommend that the following objects which have ~~(been)~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by A. C. Rowan Jr.

by H. R. Cravath

by H.R. Cravat

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.



*Copy for Deser. Report*  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

*Positions Redetermined*  
**TO BE CHARTED**  
**TO BE DELETED**

STRIKE OUT ONE

LANDMARKS FOR CHARTS

*Baltimore, Md*

*Jan. 23, 1943*

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing.

*Albert C. Rawach, Jr.*

*Fred L. Pearson*

Chief of Party.

GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE		LONGITUDE									
		0	1	D. M. METERS	0	1	D. P. METERS						
<i>Va.</i>													
1.	<i>Island Point Spit Light, F.R.</i>	37	22	253.0	76	27	680.0	NA	1927	*			494 1928
2.	<i>Red slatted pile structure F.W.</i>	37	22	204.0	76	26	1028.0			*			1222 1928
3.	<i>Black slatted pile structure F.W.</i>	37	20	432.0	76	23	993.0			*			494 1928
4.	<i>Red &amp; black slatted pile structure F.W.</i>	37	20	440.0	76	23	992.0			*			1222 1928
5.	<i>Severn River Lt. 1 F.W. 5 sec</i>	37	19	690	76	23	928.0			*			494 1928
6.	<i>Black slatted pile structure F.W.</i>	37	19	702.0	76	23	982.0			*			494 1928
7.	<i>Severn River Lt. 3 F.W. 5 sec</i>	37	18	1738.0	76	25	1338.0			*			1222 1930
8.	<i>Black slatted pile structure Browns Bay Lt. 1 F.W. 5 sec</i>	37	18	243.0	76	22	1414.0			*			1222 1927
9.	<i>Black slatted pile structure Browns Bay Lt. 3 F.W. 5 sec</i>	37	18	300.0	76	23	389.0			*			494 1937
10.	<i>Black box on pile Browns Bay Lt. 4 F.W. 5 sec</i>	37	18	184.0	76	23	709.0			*			1222 1937
11.	<i>Red box on pile Perrin River Ent. Lt. 5 sec</i>	37	15	1022.0	76	24	800.0			*			1222 1937
12.	<i>Black slatted pile structure A. 22 m. off from plotted position.</i>	37	15	1022.0	76	24	800.0			*			1222 1937
13.	<i>Washington - Norfolk Airways Ben #2</i>	37	16	1572.0	76	23	290.0			*			1222 1937
14.	<i>Revised positions from Nautical Chart Letter 391 (1947) 5-16-47</i>	37	16	1572.0	76	23	290.0			*			1222 1937
15.	<i>Values given in letter from J.H. Hawley &amp; Norfolk 5-16-47</i>	37	16	1572.0	76	23	290.0			*			1222 1937
16.	<i>* Radially plotted 10-45: * * Radially plotted 1-46</i>	37	16	1572.0	76	23	290.0			*			1222 1937

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.



Names preceded by . are approved. L. Heck 4/13/47

# GEOGRAPHIC NAMES

(Undisputed)

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>* Abingdon District</li> <li>• Achilles</li> <li>• Bar Neck</li> <li>• Bena</li> <li>• Broad Marsh</li> <li>• Browns Bay</li> <li>• Bryan Bay <i>Field Edit says "Bryant"</i></li> <li>• Bush Point</li> <li>• Caucus Bay</li> <li>• Cedar Neck</li> <li>• Cedar Point</li> <li>• Cod Point</li> <li>• Coleman Swamp</li> <li>• Colonial Nat. Hist. Mon.</li> <li>• Crab</li> <li>• Cuba I.</li> <li>• Ellen I. <i>Field Edit says "Allans"</i></li> <li>• <del>Fleming Creek</del> " - " <i>"Sterling" (see below)</i></li> <li>• Four Point Marsh</li> <li>• Free School Creek</li> <li>• Gaines Point</li> <li>• Gloucester County</li> <li>• Guinea Marshes</li> <li>• Guinea Neck</li> <li>• Hog I.</li> <li>• Jenkins Neck</li> <li>• Johns I.</li> <li>• King Creek</li> <li>• Lady</li> <li>• Long Creek</li> <li>• Maryus</li> <li>? — Mathews Creek (where?)</li> <li>• Mobjack Bay</li> <li>• Monday Creek</li> <li>• Mud Point</li> <li>• Glass</li> <li>• Sterling Creek</li> </ul> | <ul style="list-style-type: none"> <li>• Naxera</li> <li>• Northwest Branch</li> <li>• Oldhouse Creek</li> <li>• Pages Creek</li> <li>• Perrin <i>Perrin River</i></li> <li>• Quarter Point <i>Field Edit says "River"</i></li> <li>• Roanes Wharf</li> <li>• Robins Neck</li> <li>• Robins Neck Road</li> <li>• Rock Pointe <i>Other maps place this name farther east on Hotspur Bay</i></li> <li>• Rows Point <i>O.K. at easterly position</i></li> <li>• Saddlers Neck Road</li> <li>• Saddlers Neck</li> <li>• Sandy Point</li> <li>• Sarah Creek</li> <li>• School Neck Point</li> <li>• Selden — e = Selden</li> <li>• Seven Cedar Point</li> <li>• Severn</li> <li>• Severn River</li> <li>• Seven Wharf</li> <li>• Severn Wharf Road</li> <li>• Southwest Branch</li> <li>• Tidemill</li> <li>• Tow Stake Point</li> <li>• Turtle Neck Point</li> <li>* Ware District</li> <li>• Ware River</li> <li>• Ware River Point</li> <li>• Ware Neck Point</li> <li>* Westville District</li> <li>• Whittaker Creek</li> <li>• Wilson Creek</li> <li>• Windmill Point</li> <li>• York River</li> <li>• Ware Neck</li> <li>• Stamp Point</li> </ul> |
|---|---|

\* These names are from field inspection photographs No. 12651. They are not included in the Geographic Name Investigation recorded on the U. S. Geological Survey, Mathews, Virginia, 15' Quadrangle.

## • Mathews County (Westville District)

*See also Field Edit Report TP 18 for additions.*

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Glass Bay</li> <li>• Little Monday Creek</li> <li>• Blevins Creek</li> <li>• John West Creek</li> </ul> | <ul style="list-style-type: none"> <li>• Goat Point Creek</li> <li>• Sinclair Creek</li> <li>• Vaughan Creek</li> <li>• State No. 216</li> </ul> |
|--|--|

Rock Creek } Names reported in this area, but positions not indicated.  
 Brays Landing  
 Horse Point



1946

FIELD EDIT REPORT

T-8327, Achilles Quadrangle (3715/7622.5/7.5)

Project CS 289 W-2

Robert A. Horn, Chief of Party

The field edit survey was made by Robert A. Horn, Topographic Engineer, between May 1, 1946 and May 31, 1946, in accordance with The Director's Field Edit Instructions dated August 24, 1945.

46. Methods.

Roads, buildings, contours, and drainage were checked by riding or walking over all passable roads in this quadrangle. The shoreline and offshore details were checked by walking along the shoreline or observing from strategic locations from which a large portion of the shoreline would be visible. Aids to navigation were located or checked by planetable cuts. Geographic names and political boundaries were checked with local residents, posted signs, and county records.

All results of the field edit survey are shown on the field edit sheet, or reference is made on this sheet to a photograph on which the correction or addition can be determined.

Information obtained during the field edit survey is as follows:

4. Horizontal Control.

Station Good, 1944 has been washed out. This information is also submitted on Form 526.

No attempt of recovery was made on the following stations but this information should be noted:

- Deleted from map. 275*
1. The station "White House, S.E. Chimney- 1932, r. 1944" on Jenkins Neck is apparently plotted incorrectly. There is not a house of that description at the position indicated. There is a white house with a S.E. Chimney approximately 675' E.N.E. of present plotted position.
  2. If station "Tee", 1944, also on Jenkins Neck, is a small white house it is probably no longer of any value. This particular house has been relocated about 50' north of its former position about Dec. 1945



## 5. Vertical Control.

No discrepancies were found in either the location or labeling of Bench Marks.

## 6. Contours and Drainage.

The majority of the land area in this quadrangle is below 10' in elevation. In the southwest corner there are contours up to 30'. All contours were found to be adequate and complete.

Nearly all inland streams are at tidewater level. One minor adjustment was necessary on the pattern of King Creek. ✓

## 9. Wharves and Shoreline Structures.

Two structures have been added that might be considered wharves. They are large fish and oyster buildings that extend out over the water. One is located on the east bank and mouth of Perrin River. The second is on the north bank of the northeast branch of Sarah Creek.

Many small piers have been added and a few large ones. The status of small piers changes constantly in size, number, and location.

## 10. Details Offshore from High Water Line.

Eleven duck blinds were located by planetable cuts. One is west of Stump Point, and ten are along the north shore of the York River.

## 11. Landmarks and Aids to Navigation.

The locations of aids to navigation were checked by planetable cuts and the positions of five were in disagreement with the planetable cuts. The positions of all others were found to be satisfactory. The five believed to be off in position are:

<u>Aid</u>	<u>Location</u>
Fl. W., 5 sec	Severn River Light 1
Fl. R., 5 sec	Brown's Bay Light 4 ✓
Fl. W., 5 sec	Brown's Bay Light 3 ✓
Fl. G., 5 sec	Brown's Bay Light 1 ✓
Fl. W., 5 sec	Perrin River Entrance Light ✓

CL 391-1947

*These positions are in accordance with the original survey of 1886.*

L75

The following aids to navigation were located by plane-table cuts:

Aid	Location
Fl. ev. 5 sec	Junction of York R. & Sarah Creek ✓
Dolphin	S.W. of Sarah Cr. Channel Light ✓
Black Can # 1	S.W. of Sarah Cr. Channel Light ✓
Dolphin	Mouth of Sarah Cr., west of Quarter Pt. ✓
Black Can # 3	Perrin River ✓
Black Can # 1	N.E. of Perrin River Inner Light ✓
Nun-4	E. of Middle Beacon, Perrin R. Channel ✓
Nun-2	South of Sandy Point, York River ✓
1-Q. Fl. W.	South of Sandy Point, York River ✓
Nun-2B	South of Guinea Marshes ✓
Nun-2	mouth of Browns Bay ✓
Nun-2	S.W. Branch of Severn River ✓
Black Can # 1	West of Severn River Light 3 ✓
Black Can # 5	N.W. Branch of Severn River ✓
Day Marker, Black	Seven Cedar Point ✓
Day Marker, black	West of Ware Neck Point ✓
Day Marker, Black	East of Bey, 1944 ✓
Nun	South of Ware Point Shoal Light ✓
Nun-2	S.W. of Ware Neck Point ✓
Black Can # 1	Northeast of Windmill Point ✓

#### 14. Road Classification.

Several road 4's were changed to road 3's. It is also recommended that all road 5's be given the standard dashed line trail symbol.

#### 15. Bridges.

All bridges were found to be correctly indicated on this sheet.

#### 16. Buildings and Structures.

It was necessary to add a very considerable number of buildings on this sheet. One of the reasons being the fact that there has been so many new constructions during the past year. The approximate positions of all buildings added was indicated on the field edit sheet, and their exact positions shown on the photographs.

#### 17. Boundary Monuments and Lines.

There were no discrepancies noted in boundary monuments or Lines on this sheet.



## 18. Geographic Names.

There are numerous geographic names to be added and some changed. Only one disputed name was discovered. All these names with the recommended action are noted below, with numbers indicating the individual references. A complete list of the references follow the names.

1. Change Fleming Creek to Sterling Creek.  
8, 9, & 10
2. Change Ellen Island to Allans Island.  
11, 12, & 13
3. Change Perrin Creek to Perrin River.  
12, 13
4. Add Sinclair Creek and Goat Creek. (on chart section)  
1 & 7
5. Add Vaughans Creek and Brays Landing.  
6 & 7
6. Add Glass Bay, Belvins Creek, John West Creek, Horse Point, and Little Monday Creek.  
2, 3, & 4
7. Add Northeast and Northwest Branches to Sarah Creek.  
14 & 15
8. Add Church of God. ( This makes two churches of the same name within one mile. The congregation reportedly divided, and the new church adopted the same name).  
2, 3, & 5
9. Disputed name.- Bryan Bay, Bryant Bay. Recommend Bryant Bay.  
7, 8, & 9

### References:

1. Henry Cottee, Fisherman, Naxera P.O., Virginia
2. William F. West, Fire-fighter, Severn P.O., Virginia
3. W.T. Shackleford, Storekeeper, Severn P.O., Virginia
4. W.E. Belvin, fisherman, Severn P.O., Virginia
5. Douglas Hogge, Retired, Perrin P.O., Virginia
6. Ernest Islip, Architect-Engineer, Ordinary P.O., Va.
7. Milton Cottee, Oysterman, Naxera P.O., Virginia
8. Richard H. Deal, Chicken Farmer, Naxera P.O., Va.
9. George M. Bonnaville, Chicken Farmer, Naxera P.O., Va.
10. N.J. Nolen, Storekeeper, Naxera P.O., Virginia.



#### References(continued)

11. Mrs. S.O.Coxe, Homemaker, Bena P.O., Virginia
12. W.E.Rowe, Farmer-Fisherman, Bena P.O., Virginia
13. M.T.Minor, Storekeeper, Bena P.O., Virginia
14. Jack Smith, Retired, Tidemill P.O., Virginia
15. W.A.Newbill, Carpenter, Gloucester Point P.O., Va.

This list of references includes only a few of the many local residents who confirmed the respective names.

#### 47. Adequacy of Compilation

With the exception of the disagreement in location of the several aids to navigation, previously mentioned, the compilation appears to be adequate and complete in this quadrangle.

#### 48. Accuracy Test, Vertical

Due to the limited nature of the contours on this quadrangle it was felt that one vertical accuracy test would be sufficient. It is located between Lat. 37-15&16, and Long. 76-29&30. It began at detail point marked "A" and closed at detail point marked "B". The horizontal closure was 0.9mm. This high closure was assumed to be due to an unavoidable tear in the sheet in the proximity of the test. The vertical closure was 0.2'. The results are as follows:

- 23 - Points tested
- 23 - Points in error less than  $\frac{1}{2}$  contour interval.
- 100% of all points tested were within  $\frac{1}{2}$  cont. int.

#### 49. Review of First Proof.

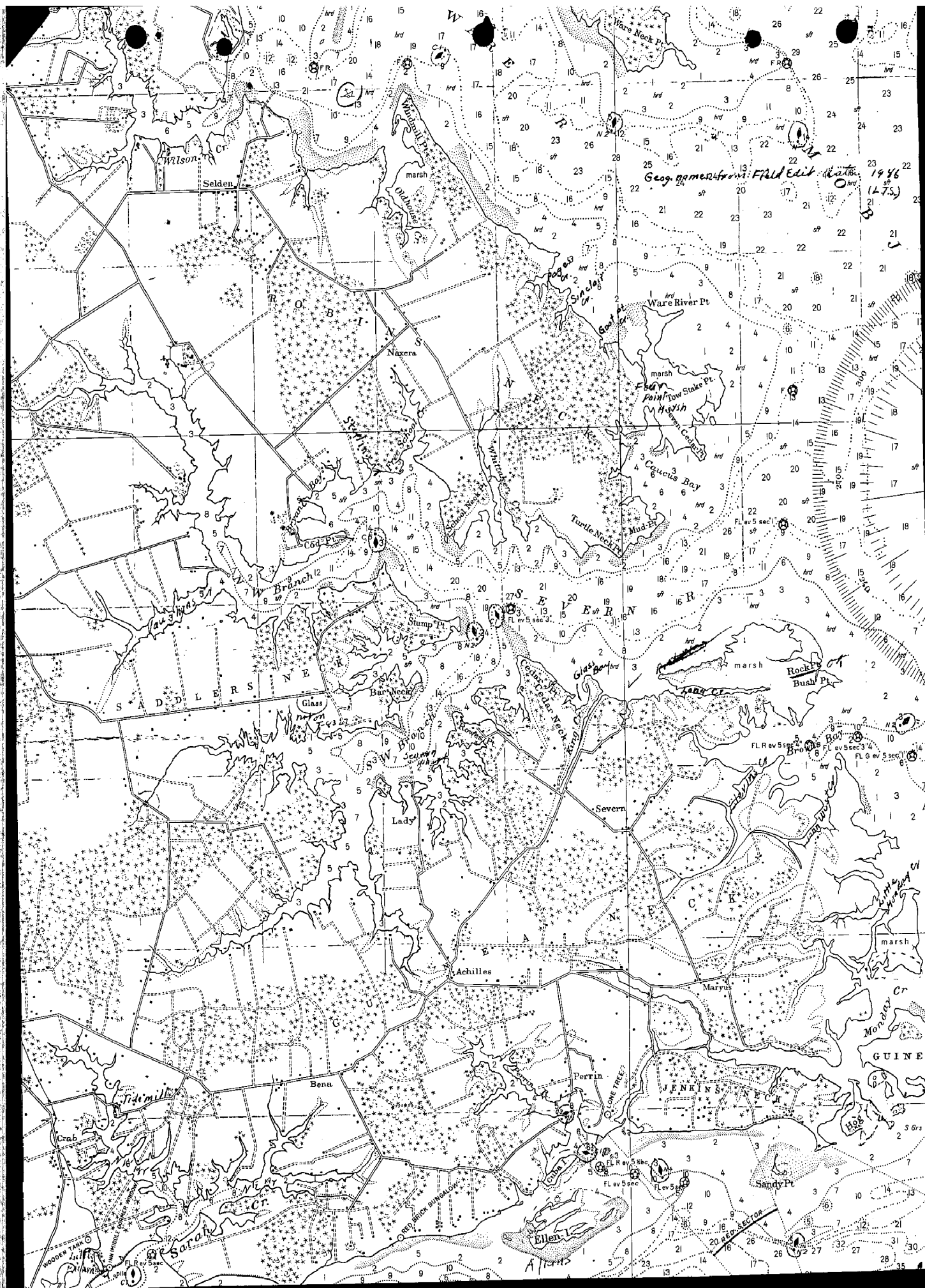
Mr. G.L.Evans, Surveyor for the Chesapeake Corp., whose address is P.O.Box 203, West Point, Virginia, has been requested to review one of the first proofs of this quadrangle. Mr. Evans is believed to be well qualified to make the review since he is familiar with maps and their employment, and is well acquainted with the area.

Respectfully submitted,

*Robert A. Horn*

Robert A. Horn  
Topographic Engineer





## Division of Photogrammetry

### Review Report of

#### Topographic Map Manuscript T-8327

Paragraph numbers used in the review report refer to paragraphs used in the descriptive report. Headings not used in this review report are adequately covered in other parts of the descriptive report.

#### 26. Control

One horizontal control station was added to the map manuscript:

Jones (VFC) 1930 (D. M.) r. 1944.

Topographic stations Irving 1906, (n. d.) and Irving (VFC) 1930 are located approximately 146 meters apart. The original field inspection recovered Irving 1906 thinking they had recovered Irving (VFC) 1930. The map manuscript has been revised to show both stations. (See the special report at the back of the <sup>Field Edit</sup> review report on this subject)

#### 28. Detailing

All field edit corrections, delineations, and additions have been applied to the map manuscript, and are shown in red acid ink.

#### 34. Land Marks and Aids to Navigation

Five fixed aids to navigation were located on the photographs during field inspection, and were relocated by planetable during the field edit. The original positions are shown in black acid ink on the map manuscript, and the new positions are shown in red acid ink. New positions for three of these stations are contained in chart letter 391 (1947) filed in the Nautical Chart Branch. The new positions have also been shown in the tabulation of ~~Form 567~~, Land Marks for Charts, in the descriptive report. Form 567,

#### 42. Comparison with Previous Topographic Surveys

(See compilation report, paragraph 29, page 11)  
An examination of the older topographic surveys shows only general agreement with this map manuscript.

#### 44. Comparison with Existing Topographic Quadrangles

This map manuscript covers the southwesterly  $7\frac{1}{2}$  minutes of the U.S.G.S. quadrangle Mathews, 1:62,500

addition 1917, reprinted 1944, and supersedes the quadrangle for topographic detail in their common areas.

45. Comparison with Nautical Charts

Chart 494, 1:40,000, 1943 ed., corrected 11-17-45

The map manuscript supersedes chart 494 for topographic detail in their common areas. A wreck shown on the nautical chart, west of Windmill Point and south of Island Point Spit, has not been located by this survey.

Vertical accuracy tests, and the adequacy of horizontal control in and adjacent to map manuscript T-8327, indicate that this map complies with national map accuracy requirements.

Reviewed by:

Reviewed under direction of:

Lena T. Stevens  
Lena T. Stevens,  
Photogrammetrist  
10 July 1946

S. V. Griffith  
S. V. Griffith,  
Chief, Review Section

APPROVED BY:

B. J. Jones 9/49  
Technical Assistant to the  
Chief, Div. of Photogrammetry

H. C. Edmonston  
Chief, Nautical Chart Br.  
Division of Charts

O. S. Reading 25 Oct 49  
Chief, Div. of Photogrammetry

W. M. Seafie  
Chief, Div. of Coastal Surveys

Statement Resolving the Confusion of Triangulation Stations.

Topo 1906, a topographic station of this Bureau, flagged and cut in by planetable in 1906 by William Bowie. The station is a terra cotta pipe.

Irving (Topo 1906) 1930, r. 1945, is the original station Topo 1906.

Irving (V.F.C.) 1930, r. 1944, 1945, is a triangulation station of the Virginia Fish Commission. The station is an iron pipe.

A photogrammetric field inspection party of this Bureau was provided with the description of Irving (V.F.C.) 1930, which station was recovered as described. The Baltimore Photogrammetric Office, using the published dm's and dp's for this station and being unable to hold the pricked station in the radial plot, requested the Washington Office to recheck the computations for possible error. No error was found in rechecking. A field party under the direction of Dale E. Sturmer, under orders from the Washington Office, inspected the station, recovered Topo 1906, pricked it on the photographs and measured an azimuth and distance between the two stations. It was then found that the position of Irving (V.F.C.) 1930 fell on the position of the pricked station Topo 1906. Assuming then that the position of Irving (V.F.C.) 1930 was the position of Topo 1906, the position for Irving (V.F.C.) 1930 was computed from the assumed position of Topo 1906 and the determined azimuth and distance between the two stations. When plotted the position of the new position fell on the pricked position of Irving (V.F.C.) 1930.

It is therefore concluded from this investigation and research that the Virginia Fish Commission, by some inadvertance, had obtained and given this Bureau the position of Topo 1906 rather than Irving (V.F.C.) 1930. The records of this Bureau have been altered accordingly and the designation of Topo 1906 changed to Irving (Topo 1906) 1930.

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

1

SURVEY NO. T8327

## Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.