

8333

8334

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Daig. Cht. No. 78-4.

Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey TopographicField No. CS-289 W1 Office No. T-8333  
T-8334

## LOCALITY

State VirginiaGeneral locality York RiverLocality Toamo - Walker1948-53

## CHIEF OF PARTY

F.E. Peacock, Chief of Field Party  
L.J. Reed, Div. of Photo. Wash., D.C.

## LIBRARY &amp; ARCHIVES

DATE June 19, 1958

## DATA RECORD

T-8333 and 8334

Project No. (II): GS-289 W1      Quadrangle Name (IV): T-8333 = TOANO  
 T-8334 = WALKER

Field Office (II): Baltimore, Md.      Chief of Party: Fred E. Peacock  
 Photogrammetric Office (III): Washington, D.C.      Radial Plot = Leslie E. Lande  
 Officer-in-Charge: Compilation = Louis J. Reed

Instructions dated (II) (III):      Copy filed in Division of  
 Photogrammetry (IV):

(II) = Photogrammetry Instructions No. 17      *Office Files*  
 (III) = Photogrammetry Manual

Method of Compilation (III): Reading Plotter

Manuscript Scale (III): 1:20,000      Stereoscopic Plotting Instrument Scale (III): 1:20,000

Scale Factor (III): 1:1

Date received in Washington Office (IV): FEB 26 1952      Date reported to Nautical Chart Branch (IV): MAR 4 1952

Applied to Chart No.      Date:      Date registered (IV): 1 April 1952

Publication Scale (IV): 1:24000

Publication date (IV):

Geographic Datum (III): NA 1927

Vertical Datum (III):

Mean sea level except as follows:  
 Elevations shown as (25) refer to mean high water  
 Elevations shown as (5) refer to sounding datum  
 i.e., mean low water or mean lower low water

Reference Station (III):

Lat.:      Long.:      Adjusted  
~~xxxxxxxxxx~~

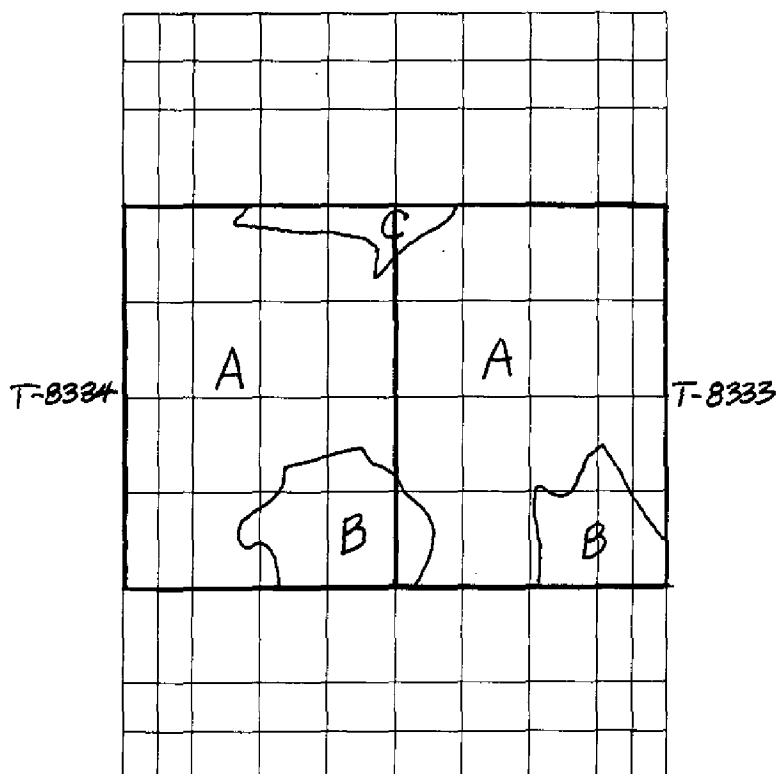
Plane Coordinates (IV):      State:      Zone:

Y=      X=

1. Virginia State Grid, South (10,000 ft interval)
2. U.S. Military Grid, Zone A (1,000 yd interval)
3. Universal Transverse Mercator, Zone 18 (1,000 meter interval)

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,  
 or (IV) Washington Office.

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



Areas contoured by various personnel

(Show name within area)

(M) (III)

- A Area: Contoured on the Reading Plotter, model A, by Clarence E. Misfeldt and William D. Harris.
- B Area: Contoured on the Reading Plotter, model B, by Orvis N. Dalbey and Louis Levin.
- C Area: Contoured on the Reading Plotter, model A, by Clarence E. Misfeldt using older photos of the 18,000 series which were taken when the foliage was partially on the trees. Refer to side-heading 34 of the Compilation Report herein.

## DATA RECORD

Field Inspection by (II): **Fred E. Peacock**Date: **1944**Planetable contouring by (II): **None**

Date:

Completion Surveys by (II): **E. T. Jenkins**Date: **T 8333 12-29-52**  
**T 8334 4-6-53**

Mean High Water Location (III) (State date and method of location): **The MHWL was indicated on 1942 9-lens photos during 1944 field inspection, and used as a guide during 1951 delineation using 1948 photographs. Therefore this shoreline is dated 1944. See Field Edit dates.**

Projection and Grids ruled by (IV): **Jack Allen on the Reading Ruling Machine**Date: **3 Dec 51**Projection and Grids checked by (IV): **Howard D. Wolfe**Date: **4 Dec 51**Control plotted by (III): **John B. McDonald**Date: **19 Feb 52**Control checked by (III): **Louis J. Reed**Date: **19 Feb 52**

Radial Plot of ~~cross section~~  
~~contour lines~~ by (III):

**Roscoe J. French and William D. Harris**Date: **9 Nov 51**

Stereoscopic Instrument ~~checked~~ **delineation** (III):

Planimetry **Orvis N. Dalbey**  
**Louis Levin**  
Contours **Clarence E. Misfeldt**  
**William D. Harris**

Date: **25 Jan 52**

**compiled**  
Manuscript ~~checked~~ by (III):

**John B. McDonald and Robert L. Sugden**Date: **25 Feb 52**Photogrammetric Office Review by (III): **Louis J. Reed**Date: **28 Feb 52**

Elevations on Manuscript  
checked by ~~NO~~ (III):

**Louis J. Reed**Date: **28 Feb 52**

Camera (kind or source) (III): USCGS 9-lens camera, model B, f=8.25 inches

## PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
22283				
284				
285				
286				
287				
288		clock		
22269	30 Mar 48	stopped	20,000	
70				
71				
72				
73				
74				
22256				
57				
58				
59+60				

(also 18681, 2, & 3) Single lens photos 51-0-1026-1031, 1085 and 1086, field inspected in 1951 were used to correct the shoreline before field edit.

Tide (III)

Reference Station: Hampton Roads  
 Subordinate Station: Allmondsville (T8333)  
 Subordinate Station: Lanexa (T8334)

Ratio of Ranges	Mean Range	Spring Range
1.1	2.8	3.3
1.0	2.6	3.1

Washington Office Review by (IV): C. Theurer

Date: 10-29-53 (T8332)

Final Drafting by (IV): T-8333 R. Kelly

3-3-54 (T8334)  
 Date: 2-18-58

Drafting verified for reproduction by (IV): T-8333 Wm. Hallum

Date: 2-21-58 (T-8333)

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 60 each quad

Shoreline (More than 200 meters to opposite shore) (III):

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered:

Identified:

Number of BMs searched for (II):

Recovered:

Identified:

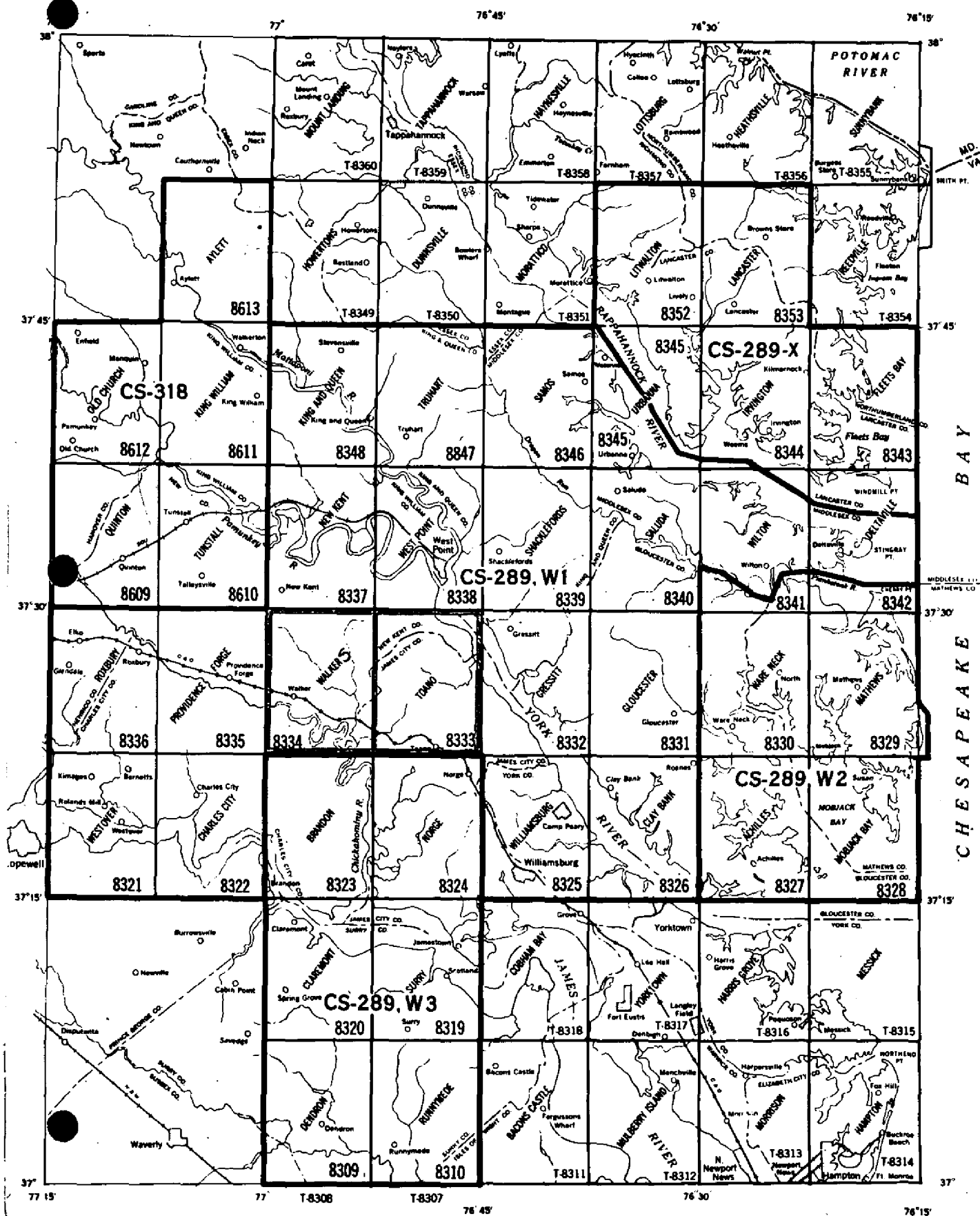
Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

## TOPOGRAPHIC MAPPING PROJECT CS-289-318 (47)

VIRGINIA, Rappahannock River to James River



Summary T- 8333  
8334

Topographic mapping Project CS-289 is divided into six subprojects: CS-289a, b, x, W-1, W-2, and W-3. Information concerning Project 289 in its entirety will be included in the Project Completion Report. T-8333 <sup>8334</sup> as two of seventeen standard 7.5 minute quadrangles and parts of three quadrangles that are included in CS-289 W-1. This area was compiled by the Reading Plotter.

This subproject covers an area between the Rappahannock and the James Rivers including the York, Pamunkey, Mattaponi and Piankatchank Rivers. Principal cities of the area are West Point and historically important Williamsburg and Yorktown.

The portion of CS-289 W-1 north of latitude  $37^{\circ}30'$  was completed in 1947 through 1949 and the maps were published by the Geological Survey 1949 through 1951. The compilation of the southern part of this subproject was resumed and completed in 1952. It will be field edited in 1952 and 1953. The Army Map Service published preliminary copies of T-8325, T-8326, and T-8332 that will be revised when field edit is complete.

The maps of this project are to be published at 1:24,000 scale by the Geological Survey. A cloth-backed lithographic print of the original map manuscript at compilation scale, 1:20,000 and a cloth-backed color print of the published quadrangle, together with the descriptive report, will be filed in the Bureau Archives.

PROJECT NO. US 299 W1

SCALE OF MAP 1:20,000

SCALE FACTOR

[illegible]



MAP T-8334 PROJECT NO. CS 289 WL SCALE OF MAP 1:20,000 SCALE FACTOR

[illegible]

## FIELD LEVELING REPORT

T-8333

5. Vertical Control:

Date started ..... August 7, 1945

Date completed ..... November 30, 1945

3rd Order Levels ..... 2.5 linear miles

4th Order Levels ..... 64.5 linear miles

## Recovery:

Existing vertical control was recovered and pricked in the spring of 1944 by the War Mapping Field Party. No attempt was made to determine the adequacy of the work; it was felt the field edit party would pick up any discrepancies which might exist.

New 3rd Order Bench Marks were pricked as the leveling progressed. New Bench Marks are as follows:

H 295 1945  
J 295 1945

## Photograph Nos.

The following nine lens photos were used: 12915 -- 12917 -- 12939 -- 12942 -- 12985.

## Methods:

About 2.5 linear miles of 3rd Order Levels were completed by Mr. Alfred R. Knaack, Engineering Aid, using instruments and methods as prescribed by the Division of Geodesy.

About 64.5 linear miles of 4th Order Levels were completed by Messers Thomas W. Merriken Jr., Engineering Aid; Jerry R. Valenstein, Recorder; and Patrick Sbrano, Recorder, between the dates of 10-1-45 and 11-30-45. Elevations were carried by trigonometric methods, using a 7" Berger theodolite, a Kern theodolite equipped with stadia hairs, and Simons Adams leveling rods. All loops were closed either on tidewater, an existing Bench Mark, or a previously determined elevation.

Level information appears on the photos in blue ink. The code letters TA prefix all spot elevations. The following system was used to segregate the closed elevations from the unclosed:

1. - Elevations circled indicate the loop was not closed on a known elevation.
2. - Elevations underscored by a dashed line indicate the loop was closed on tidewater.
3. - Elevations underscored by a solid line indicate the loop was closed on a previously determined elevation or an existing Bench Mark.

The average closure of the 4th Order loops was 1.1 feet. There were no 4th Order loops known to exceed the required limits of accuracy.

Submitted with the photos is a layout showing the approximate position of the spot elevations. Also, on the fly leaf of each volume is the following information: Loop (spot elevations), Page, Closure, Field notes checked by, Adjustment checked by, Inked on photo no., Copy checked by, and Remarks.

Respectfully submitted,

Thomas W. Merriken, Jr.,  
Engineering Aid

Approved December 7, 1945

Harland R. Cravat  
Photogrammetric Engineer

## FIELD LEVELING REPORT

T-8334

5. Vertical Control:

Date started ..... 7-30-45

Date completed ..... 12-7-45

3rd-Order levels ..... 5 lin. miles

4th-Order levels ..... 76 lin. miles

Recovery

Previous existing vertical control was pricked and recovered early in 1944 by the War Mapping Field Party. No attempt was made to determine the adequacy of the work; it was felt the field edit party would pick up any discrepancies which might exist.

Five New 3rd Order Bench Marks were pricked as the leveling progressed.

## New Bench Marks

A- 294 - 1945

S- 294 - 1945

T- 294 - 1945

U- 294 - 1945

V- 294 - 1945

The following photo's were used - 13008, 13010, 12938.

Methods

About five linear miles of new 3rd-order levels were completed by Mr. Alfred R. Knaack, Engineering Aid, using instruments and methods as prescribed by the Division of Geodesy.

About 76 linear miles of 4th-order levels were completed by Messrs Edward Wichers, Recorder and John R. Smith, Engineering Aid. Elevations were by both Wye and Trigonometric methods. Wye level elevations were carried to the nearest 0.01 of a foot. Trigonometric leveling was accomplished with a  $4\frac{1}{2}$  inch Kern Theodolite equipped with stadia hairs and Simmons-Adams level rods, elevations computations were made to 0.10 of a foot.

Level information appears on Photo's in blue ink. The code letters appear WA Prefix all spot elevations. The following system was used to distinguish the closed elevations

from the unclosed. Elevations circled indicate the loop was not closed on a known elevation, elevations underscored by a dashed line indicates the loop was closed on tide-water, Elevations underscored by a full line indicates the loop was closed on a previously determined elevation or Bench Mark.

A few Wye level lines less than one mile in length were not closed, these however are felt to be well within the required limits of accuracy. No Wye or Trigonometric level loops closed in excess of 2 allowable errors. The average error of closure was less than one foot.

Considerable difficulty was encountered with the initial running of spot elevations WA-1 to WA-16 inclusive. Errors in original running were located and corrected by Wye level methods.

Submitted with the Photo's is a layout showing the approximate position of the spot elevations. Also on the flyleaf of each volume is the following information: Loop (spot elevations) page closure, Field notes checked by, Adjustment checked by, Inked on Photo No. copy checked by, and remarks.

Submitted by,

/s/ John R. Smith  
Photogrammetric Aid

Approved Dec. 6, 1945 by

/s/ Harland R. Cravat  
Photogrammetric Engineer

COMPILATION REPORT31. Delineation:

These two quads were delineated as a unit on the two Reading Plotters, models A and B, both instruments being employed simultaneously with model A doing a majority of the work as pictured on page 2 of this report. Photograph coverage was complete and field inspection was complete although neither were up-to-date; field inspection was accomplished in 1944 on 1942 photos. It was used as a guide during instrument delineation which used a newer set of photo coverage taken in 1948. This complicated matters in that ground features had changed in spots and judgement had to be used to delineate the more up-to-date features though contrary to field inspection information. None-the-less, the entire area was delineated leaving no incomplete areas. A considerable amount of field completion work will be necessary to bring these maps up-to-date.

T-8333 was wanted on high priority and was taken from the Section with no more on the manuscript than a compilation of instrument worksheets. The second quad, T-8334, was given the usual full compilation treatment and therefore was as complete as possible with the information at hand before leaving the Section.

32. Control:

Horizontal control was considered adequate for the control of the radial plot which included the two quads of this report plus six others to the south and east. For details, see the Radial Plot Report included in the Descriptive Report to accompany map T-8325.

Vertical control was not altogether satisfactory and caused much concern and delay. Possibly the primary reason for this was the hurried manner and incorrect method used to establish this control under the stress of war-time conditions. The spacing of the elevations was quite adequate with level lines run along nearly all the roads in the area, with spur lines extended into inaccessible areas within the road network; for details, see Field Leveling Report on pages 7 thru 10 of this report. The immediate problem was that isolated elevations or even a whole line of levels would not agree with the instrument datum established by many lines of elevations thruout a given model. In each case the field books were checked step by step as far as possible for busts in lines; when found, the situation was rectified; when not found the only thing to be done was to disregard the sour elevation or line of elevations and continue with what appeared to be the reliable datum.

*See Field Edit Report T 8334, Item 57*

33. Supplemental Data:

a. Special Reports: None.

b. Instrument Photography (metal-mounts):

T-8333 = 22958, 59, 69, 70, 71, 72, 85, 86, 87, 88.  
18982, 83.T-8334 = 22956, 57, 71, 72, 73, 74, 83, 84, 85, 86.  
18981, 82, 83.

## Field Inspection Photos:

T-8333 = 12915, 16, 17, 38, 39, 40, 41, 85, 86, 87.

T-8334 = 12985, 86, 87, 13007, 8, 9, 10.

d. Shoreline Survey: One shoreline survey, T-8081, covers the south half of T-8334. It was compiled at 1:10,000 in 1940. A 1:20,000 film positive was made of it to compare with T-8334. Several differences were noted but no changes were applied to the new map since the shoreline survey is over 10 years old.  
*Differences mentioned are minor, south of Walkers Dam.*34. Contours and Drainage: *See Review Report, Item 62.*

For the most part, instrument photography was suitable for contouring purposes. One small area is not considered to be as strong as the balance of the total because photo coverage used was exposed when the trees were partially in leaf causing an impaired vision of the ground. This small area consisted of two models and is located along the north border extending into both quads as pictured on page two of this report. The major photo coverage offered good vision of the ground but there was a gap in this coverage where the two poorer models had to be substituted. Further, a poor calibration had to be used in printing all the instrument photos (by present day standards), which required the use of more correction curves than normal with newer and better calibrated pictures. *Doubtful areas were checked and corrected by the Field Editor.*

35. Shoreline and Alongshore Details:

This does not apply to T-8333. On T-8334 a dam was constructed on The Chickahominy River between the time of 1944 field inspection and the date of exposure of the 1948 instrument photographs of the area. Therefore the shoreline and offshore details in the reservoir behind the dam are completely as delineated on the plotter, and will bear attention during field edit. Shoreline has been shown in proper symbol where it was quite certain, but in others a dashed outline has been used and labeled as trees in water. *See Field Edit Report T-8334*

36. Offshore Details:

Not Applicable.

37. Landmarks and Aids: Two fixed aids to navigation are on T-8333. See Chart Letter 214(52) copy attached.  
~~None recommended.~~ Two charted landmarks on T-8334 are recommended for deletion. Chart
38. Control for Future Surveys: Letter 270(53)

None ~~special~~.

39. Junctions:

Not all junctions are in agreement. Quads on the east and south were made to agree when they were compiled simultaneously with the two quads being reported, and T-8335 to the west of T-8334 agreed because of overlapping worksheets along the border. But, along the north match line, junction agreement is bad where T-8337 is north of T-8334 and T-8338 north of T-8333. It was noted when instrument delineation was first started in this area, and considerable time was used trying to decipher the cause of the trouble. A partial answer lies in the fact that old photography with dense foliage pictured was used for the older delineation (T-8337 and 38 were mapped in 1944-45), which would tend toward less reliable contours. The basic vertical control was established at the same time for both compilations, except for an area in the NW corner of T-8334 (see side-heading 40 below), but this would indicate that the two should be in agreement. The culture does agree across the junctions within limits, and only the contours disagree; the plots were tied together properly but the two separate judgements as to where the contours should head up the many draws that cross the junctions are conflicting. Aware of the problem, it is felt that the newer compilation is correct, special attention having been applied. However, it is recommended that vertical accuracy tests be made in the area; it is felt that field edit work will not have to be extended very far into either side of the junction before a good agreement will be reached. All junctions were checked and corrected during Field Edit and Review. See Review Report

40. Special Vertical Control: T-8334, Item 67

Field photos showing level line identification for most of the north half of T-8334 were not to be found. It was reran early in January, 1952, by Mr Frank Wisiecki who identified the points of elevation on 9-lens photo No. 22257. The new levels were used in the contouring.



41. Horizontal and Vertical Accuracy:

The scale of the manuscripts of these two quads are both 1:20,000 and the contour interval is 20ft. The accuracy achieved is considered to be in conformance with mapping standards in both respects. The contours may not be as strong in the areas contoured from the two models 18,981-82 and 18,982-83 as in the balance of the total area, but they are still thought to be within limits. For details, see side-heading 34 of this report.

46. Comparison with Existing Maps:

USGS Quad Map "TOANO, VA", 1:62,500, 1930 edition.

47. Comparison with Nautical Charts:

- a. YORK RIVER - YORKTOWN TO WEST POINT, No.495, 1:40,000, August 1931.
- b. JAMES RIVER- JAMESTOWN ISLAND TO JORDON POINT, No.530, 1:40,000, September 1940.

48. Geographic Name List: Follows, separate pages.

49. Notes for the Hydrographer: ~~Falkland Islands~~ None.

50. Compilation Office Review:

Follows as a separate page, for T-8334 only.

Submitted by:

*William D. Harris*

William D. Harris

Cartographer-Photogrammetric

Approved and Forwarded by:

*Louis Reed*

## GEOGRAPHIC NAMES

Survey No.

T8333

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	
✓ Barnes Swamp									1
✓ Barhamsville									2
✓ Barhamsville Lookout Tower									3
Bethany Church									4
✓ Bird Swamp									5
✓ Bock									6
✓ Branch Siding									7
✓ Brickyard Road									8
✓ C & O (Chesapeake and Ohio Railway)									9
✓ Croaker									10
✓ Diascund									11
✓ Edwards Swamp									12
✓ Gordon Pond									13
✓ Hickory Neck Church									14
✓ Holly Forks									15
✓ Holly Forks Road									16
✓ James City County									17
✓ King and Queen County									18
✓ Kings Corner									19
✓ Mount Nebo Church									20
✓ Mount Olive Church									21
✓ Mount Zion Church									22
✓ New Kent County									23
Newport News Water Supply Pipeline ?									24
✓ Olive Branch Church ?									25
✓ Peartree Road									26
✓ Philbates Creek									27

## GEOGRAPHIC NAMES

Survey No.

T 8333

Name on Survey

	A	B	C	D	E	F	G	H	K	
	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		
Plum Point Road										1
✓ Pocahontas Trail										2
Richardson Swamp										3
St. Johns Creek?										4
✓ Tabernacle Church										5
✓ Terrapin Point										6
✓ Toano										7
✓ US 60										8
US 360.										9
✓ Virginia Electric and Power Co. Trans. Line										10
✓ Va. 30										11
✓ Va. 168										12
✓ Wahpani Swamp?										13
✓ Ware Creek										14
✓ York River										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names checked  
& approved

10-30-51

## GEOGRAPHIC NAMES

Survey No.

T 8334

Name on Survey

P. 1 of 2

	A	B	C	D	E	F	G	H	K	
	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		
Balls Pond										1
Beaverdam Creek										2
Big Swamp										3
Binns Bar										4
Brickyard Road										5
Charles City County										6
Chickahominy River										7
C & O RR										8
Cypress Bank Ldg.										9
Diascund Bridge										10
Diascund Creek										11
Dockman Swamp										12
Ebenezer Church & Cem.										13
Edwards Creek										14
Fish Hole Landing										15
Good Hope Church										16
Graves										17
Holdcroft Road										18
James City County										19
Lanexa										20
Lanexa School										21
Liberty Church & Cem.										22
Matahunk Neck										23
Mount Pleasant Church & Cem.										24
New Kent County										25
Old Stage Road										26
Pocahontas Trail										27

## GEOGRAPHIC NAMES

Survey No.

T 8334

Name on Survey

	A	B	C	D	E	F	G	H	K	
Rock - 2 - Hock										1
Slatersville										2
Tsena Commoko Indian Ch.										3
Turner Neck										4
Vaidens Pond										5
Wahrani Swamp										6
Walkerf										7
<del>Walters Dam</del> Chickahominy River Dam										8
Wilcox Neck										9
Windsor Shazdes										10
(Boulevard P. O.)										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
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										25
										26
										27

Names approved

8-27-54

A. J. W.

## PHOTOGRAMMETRIC OFFICE REVIEW

T. 8334

1. Projection and grids ☒ 2. Title ☒ 3. Manuscript numbers ☒ 4. Manuscript size ☒

## CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ☒ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ☒ 7. Photo hydro stations ☒ 8. Bench marks ☒ 9. Plotting of sextant fixes ☒ 10. Photogrammetric plot report ☒ 11. Detail points ☒

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ☒ 13. Low-water line ☒ 14. Rocks, shoals, etc. ☒ 15. Bridges ☒ 16. Aids to navigation ☒ 17. Landmarks ☒ 18. Other alongshore physical features ☒ 19. Other along-shore cultural features ☒

## PHYSICAL FEATURES

20. Water features ☒ 21. Natural ground cover ☒ 22. Planetable contours ☒ 23. Stereoscopic instrument contours ☒ 24. Contours in general ☒ 25. Spot elevations ☒ 26. Other physical features ☒

## CULTURAL FEATURES

27. Roads ☒ 28. Buildings ☒ 29. Railroads ☒ 30. Other cultural features ☒

## BOUNDARIES

31. Boundary lines ☒ 32. Public land lines ☒

## MISCELLANEOUS

33. Geographic names ☒ 34. Junctions ☒ 35. Legibility of the manuscript ☒ 36. Discrepancy overlay ☒ 37. Descriptive Report ☒ 38. Field inspection photographs ☒ 39. Forms ☒40. ☒ *[Signature]* ☒ *[Signature]*

Reviewer

Supervisor, Review Section or Unit

Louis J. Reed, Chief

41. Remarks (see attached sheet)

Stereoscopic Mapping Section  
Photogrammetric Engineer

## FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

\_\_\_\_\_  
Compiler\_\_\_\_\_  
Supervisor

43. Remarks:

M-2623-12

FIELD EDIT REPORT  
Quadrangle T-8333(TOANO)  
Project CS 289 W-1

H. A. Paton, Chief Of Party

51 METHODS

All roads were ridden over to check their classification, to investigate questioned areas, to classify buildings, to visually check contours, and to check shoreline features where possible.

All deletions were made on the field edit sheet. All additions were made on the photographs and each addition was cross referenced on the field edit sheet. Contour corrections were made on both the field edit sheet and the photographs. A legend explains the colored inks used for the different types of work.

Field edit information is shown on one double weight print cut into four sections and used as a field edit sheet, one discrepancy print, three 9 lens photographs numbered 22258, 22270, 22271 and three single lens photographs numbered (3-22-51-0) 1026, 1027 and 1028.

52 ADEQUACY OF COMPILATION

The map compilation is adequate with the exception of additions and changes made since the date of photography and will be complete with the application of the field edit data.

53 MAP ACCURACY

Plane table traverses checked well with all mapped features indicating the horizontal accuracy of the map to be well within specifications.

Three vertical accuracy tests were made directly on the field edit sheet testing a combined total of 118 points with the following results: 93% an error of  $\frac{1}{2}$  a contour interval or less, 6% an error of  $\frac{1}{2}$  to 1 contour interval and 1% an error greater than 1 contour interval. All contours having much error were corrected in the tested areas. A few contours were changed in other areas to improve the expression.

54 RECOMMENDATIONS

None

55 EXAMINATION OF THE PROOF COPY

Mr E. W. Upp, Barhamsville, Virginia, Hi-Way Inspector for the Virginia Hi-Way Department and a resident of this area for 24 years , will examine a proof copy of the map.

No discrepancy was noted in geographic names.

56 BOUNDARIES, MONUMENTS AND LINES

Information from the County Clerks Office of James City and New Kent County reveals there are no monuments to mark the county lines. The county lines as shown on the C.&G.S. map match comparatively well with existing county line road markers.

Respectfully submitted,  
December 29, 1952

*Elgan T. Jenkins*  
Elgan T. Jenkins  
Carto. Survey Aid



FIELD EDIT REPORT  
Quadrangle T-8334 (Walker)  
Project CS-289  
J. C. Sammons, Chief of Party

51. Methods.--All roads were ridden out to check their classification, to investigate questioned areas, to classify buildings, to add new features and to visually check contours and planimetry. All trails, that are to be shown, were checked either by walking over them or by utilizing reliable local information as to the trails use and importance.

Shore line delineation was visually checked from a skiff running close inshore.

Landmarks recommended for deletion were viewed from the water.

All off shore features have been identified on the photographs.

All spot elevations, used during field edit, were checked by plane table.. (See item 57 of this report).

Contour junctioning along the northern boundary of this quadrangle was made on one nine lens photograph.. The contour corrections along new Hi-way U.S. #60 were made on single lens 1950 photographs. (~~See "Notes to Reviewers"~~).

All new features, delineated on the photographs, have been cross referenced on the field edit sheet.

Field edit information is shown on one double weight matte print used as a field edit sheet, cut into four sections and numbered 1, 2, 3, and 4, one discrepancy print, three nine lens 1:20,000 scale photographs numbered 18683, 22257, 22286- and eight single lens photographs numbered 65, 67, 69, 70, 72, 133, 134 and 136.

52. Adequacy of Compilation.--The map compilation is near adequate and will be complete with the application of the field edit data. A change in the shoreline delineation above the dam on Chickahominy River is recommended and is discussed under item 56 of this report. *Recommendations followed.*

53. Map Accuracy.--No horizontal accuracy test was made of this map.

As the northeast section of the quadrangle was believed to have less accuracy than the rest of the map an accuracy test approximately 2½ miles long and testing 75 points was

made of that area. One test point was allowed for each top or bottom with all other points being directly on the contours. As computed from the summary and abstract of this test, 94% of all points tested had an accuracy of one-half a contour interval or better.

54. Recommendations.--None offered.

55. Examination of proof copy.--No one was requested to examine a proof copy of this map.

All road and railroad signposts in the area of Walker, Virginia show the name Walkers.

The dam across the Chickahominy River near Walkers is widely known as Walkers Dam. (~~See enclosed newspaper clipping~~).

*These names have been approved by the Geographic Branch.*  
No other name discrepancies were noted during field edit.

56.. Shoreline and Alongshore Features.--A thorough investigation, combined with reliable local information, discloses that the shoreline of the fresh water lake, formed by the dam on Chickahominy River, is undergoing a changing process. An examination of the single lens 1950 photographs will reveal small dark areas that did not exist on the 1948 photography. These dark areas are a growth of grass and lilies that is spreading over all the shallow areas. At the present time the grass and lilies are thick enough to actually form an apparent shoreline. During the wet season of the year the water level of the lake is approximately 15 to 18 inches above M.H.W. below the dam. During the dry season of the year the lake level falls to about where a normal high tide would have made it, with the dam acting as a barrier against salt water. With this information in mind the following solution is recommended for what appears to be the practicable delineation of the fresh water area:

1. The only open water to be shown in this lake should be as the M.H.W.L. appears on the 1942 photography.

2. The areas between the 1942 M.H.W.L. delineation and the 1948 M.H.W.L. delineation should be shown as grass and lilies except the areas covered by trees and those areas be labeled trees or swamp.

3. All trees in water should be shown as swamp, as the water among them is shallow and the trees and brush are very dense in most areas.

An examination of the 1950 photography will disclose what areas should be labeled swamp or trees. (See item 35 of the Compilation Report).

57. Control.--With the exception of one error, which is discussed in "Notes to Reviewers", the elevations, part of which were checked on field edit, that were established by Messers Frank Wisiecki and James Cregan, in 1952, were found to have very good quality. *The error mentioned was a mistake in copying and has been corrected.*

As no elevation or line of elevations were called to the attention of the Field Editor for checking, it is believed that item 32 of the Compilation Report is misleading.

The azimuth mark for Station CYPRESS 1934 has been destroyed. The disk will be forwarded at a later date.

58. The two landmarks "House (N. Chy)" and "Houseboat" are recommended to be deleted from all charts. The chimney can only be seen from one small portion of the river and the houseboat is small. Considering the narrow width of the river with its many crooks and turns it is believed that any one using a chart of the area would have little orientation difficulty. *Chart Letter 270 (53)*

59. Several roads in this area are known as forest fire trails. Local information discloses that they are graded once a year by the Virginia Forest Service and are not regularly maintained by the State. These roads in the winter season often become impassable and are seldom traveled. A class 7 is recommended for them.

Respectfully submitted,  
8 April 1953

*Elgan T. Jenkins*  
Elgan T. Jenkins  
Cartographic Survey Aid

**DEPARTMENT OF COMMERCE**  
**U. S. COAST AND GEODETIC SURVEY**

## NONFLOATING AIDS DRESSING MARKERS FOR CHARTS

**TO BE CHARTED  
TO BE DELETED**

**STRIKE OUT ONE**

Washington Office

**Nov. 19**, 19**52**

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

The positions given have been checked after listing by C. Theurer

S. V Griffith

*Chief of Party.*

[illegible]

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

# NONTECHNICAL AND/OR LANDMARKS FOR CHARTS

**NOT BE DELETED**

**STRIKE OUT ONE**

**Baltimore, Maryland**

8 April

193

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

The positions given have been checked after listing by E. T. Jenkins

**Jack C. Sammons**

Chief of Party.

[illegible]

Review Report T-8333  
Topographic Map  
October 29, 1953

61. General Statement.--This map is one of six topographic quadrangles that were compiled on the Reading Plotter, given a partial review, smooth drafted, and forwarded to the Army Map Service for publication in February 1952. This map was not published. A final copy of this map manuscript after field edit and review will be forwarded to the Army Map Service so that the preliminary copy can be corrected.

62. Comparison with Maps of other Agencies.--

T-722	1:20,000	1858
T-722a	1:60,000	1862
T-3243	1:20,000	1911

This map supersedes these surveys for nautical charting purposes.

63. Comparison with maps of other Agencies.--

USGS Toano Quadrangle	1:62,500	1930
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Extensive cultural changes have been shown on the map manuscript.

64. Comparison with Contemporary Hydrographic Surveys.-- None

65. Comparison with Nautical Charts.--

Chart No. 495	1:40,000	1931 Corr. 1951
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The landmark, "E. Gable", shown on the chart was not inspected in the field during this survey to determine its landmark value. The E. Gable was located by triangulation in 1911 and was recovered as a triangulation station in 1952.

A new position is shown on the map manuscript for the rows of piling in the York River.

66. Adequacy of Results.--See Field Edit Report for results of accuracy tests on this quadrangle. This map conforms with the National Standards of Map Accuracy.

Reviewed by:

  
C. Theurer

T-8333  
Page 2

APPROVED

*L. C. Lande*  
\_\_\_\_\_  
Chief, Review Branch  
Div. of Photogrammetry

\_\_\_\_\_  
Chief, Nautical Chart Branch  
Division of Charts

*Robt. J. Bill*  
\_\_\_\_\_  
Division of Photogrammetry

\_\_\_\_\_  
Chief, Div. of Coastal Surveys

Review Report T-8334  
Topographic Map  
March 11, 1954

62. Comparison with Registered Topographic Surveys.-

T-1337a	1:20,000	1873-75
T-1337b	"	"
T-8081	1:10,000	1943

This map supersedes these surveys for interior detail. The shoreline on T-8081 is shown in greater detail because of the scale difference and should be used for nautical charting purposes downstream from Walkers Dam. The map manuscript should be used for recent cultural changes alongshore and shoreline above the dam.

63. Comparison with Maps of Other Agencies.-

USGS Toano Quad	1:62,500	1930
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The construction of Walkers Dam and U.S. Highway 60 are the most prominent cultural changes shown on the map manuscript.

64. Comparison with Contemporary Hydrographic Surveys.-

H-7714	1:10,000	1946-47
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Stakes and snags shown on the hydrographic surveys are not visible on the photographs.

65. Comparison with Nautical Charts.-

Nautical Chart 530	1:40,000	1940
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The two charted landmarks in this area should be deleted. See Chart Letter 270 (53).

Shoreline above Walkers Dam should be changed to agree with the map manuscript.

Wrecks should be added to the chart near the mouth of Diascund Creek and at Lanexa.

66. Adequacy of Results.- This map complies with the National Standards of Map Accuracy. See Field Edit report for results of vertical accuracy test.



67. Junctions.— The field editor detected several errors in the contours on T-8337, published in 1949, while checking the northern junction. The correct contours are shown in red above the nest line on the map manuscript and should be corrected on T-8337 when it is re-issued.

Reviewed by:

Charles Theurer  
C. Theurer

APPROVED

H. S. Lander  
Chief, Review Branch  
Div. of Photogrammetry

Max Skellern  
Chief, Nautical Chart Branch  
Division of Charts

J. Bull  
Chief, Div. of Photogrammetry

W. D. Russell  
Chief, Div. of Coastal Surveys

*See report T 8319 for application of  
hydrography on T 8334*