# 8335

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Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. CS=289-W1 Office No. T-8335

### LOCALITY

State Virginia

General locality .James River

Locality Providence Forge

# 194/53

CHIEF OF PARTY
F. E. Peacock, Chief of Field Party.
Div. of Photogrammetry, Wash, D.C.

LIBRARY & ARCHIVES

DATE September 29,1955

B-1870-1 (I)

### DATA RECORD

T - 8335

Project No. (II):

Quadrangle Name (IV): Providence Forge

CS-289W1

Field Office (II):

Chief of Party: F. E. Peacock

Photogrammetric Office (III): Washington, D. C.

Officer-in-Charge: Lou Reed, Chief, Stereoscopic Mapping Section

Instructions dated (II) (III):

#17 - 15 September 1947

Copy filed in Division of Photogrammetry (IV)

Office Files

Method of Compilation (III): Reading Plotter

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (NI): 1:20,000

Scale Factor (III): 1:1

Date received in Washington Office (IV): 6-27-50 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

SEP Date registered (IV):

2 1955

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  $(\underline{\mathcal{S}})$  refer to sounding datum i.e., mean low water or mean lower low water

Zone:

Reference Station (III): MINTREE, 1934

lat.: N 37-28-08.042

Long.: W 77-02-00.480

Adjusted Jaadiusted-

Plane Coordinates (IV):

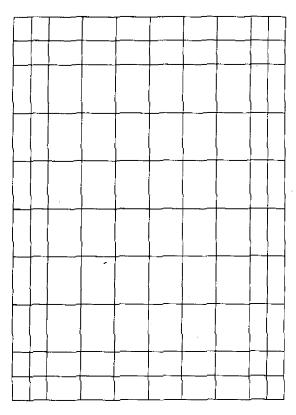
State: Virginia

Y = 416,746.03

x = 2,425,601.93

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)
(II) (III)

85% by Orvis N. Dalbey 15% by Clarence E. Misfeldt on the Reading Plotter

### DATA RECORD

Field Inspection by (II): Fred L. Peacock Date: 1944-5

Planetable contouring by (II): None Date:

Completion Surveys by (11): E. T. Jenkins Date: April 1963

Mean High Water Location (III) (State date and method of location): The short section of shoreline at the head of the Chickahominy River is dated March 1948 since it was delineated from photographs taken then. This shoreline was not field inspected. 4 is above fidel water.

Projection and Grids ruled by (IV): Ruling Machine Date: Dec. 48

Projection and Grids checked by (IV): Wheatley E. Ward Date: Dac. 48

Control plotted by (III): John B. McDonald Date: 11 Feb. 49

Control checked by (III): Louis J. Reed Date: 11 Feb. 49

Graphic Compilation Section

Radial Plot or Strong Div. of Photo gramme try, Wash.D.C. Date: 10 Jan. 49

Contrabentension by (III): Roscoe J. French

delineation Planimetry Date:

Stereoscopic Instrument companies (III): Orvis N. Dalbey 11 Apr. 49

Contours Date:

. . . .

compilation

Manuscript dense 22 June 50

and Robert L. Sugden

Photogrammetric Office Review by (III): Louis J. Reed Date: 29 June 50

Elevations on Manuscript Date: 29 June 50

checked by (H) (III): Louis J. Reed

<b>PHOTOGRAPHS</b>	(III)
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Number	Date	Time	Scale	Stage of Tide
<u>Compi</u>	<u>lation Photogr</u>	aphy		

22255-57		11:56	1:20,000
22274-76	30 March 1948	12:23	1:20,000
22282-84		12:31	1:20,000

by the Field Editor. Original Field Inspection was done on photos 13026 +4+0 13031 + 13011

Tide (III)

	· · · · · · · · · · · · · · · · · · ·	٠.
eference Station:	No periodic tide	70
ubordinate Station:	There is	110

60

Ranges | Range Range

Washington Office Review by (IV):

Date: April 1, 1454

Spring

Final Drafting by (IV):

Subordinate Station:

Date:

Ratio of Mean

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to opposite shore) (III): none

Shoreline (Less than 200 meters to opposite shore) (III): none

Control Leveling - Miles (II): 59

Number of Triangulation Stations searched for (II): 2

Recovered: 2

identified:

Number of BMs searched for (II): (16)

Recovered:

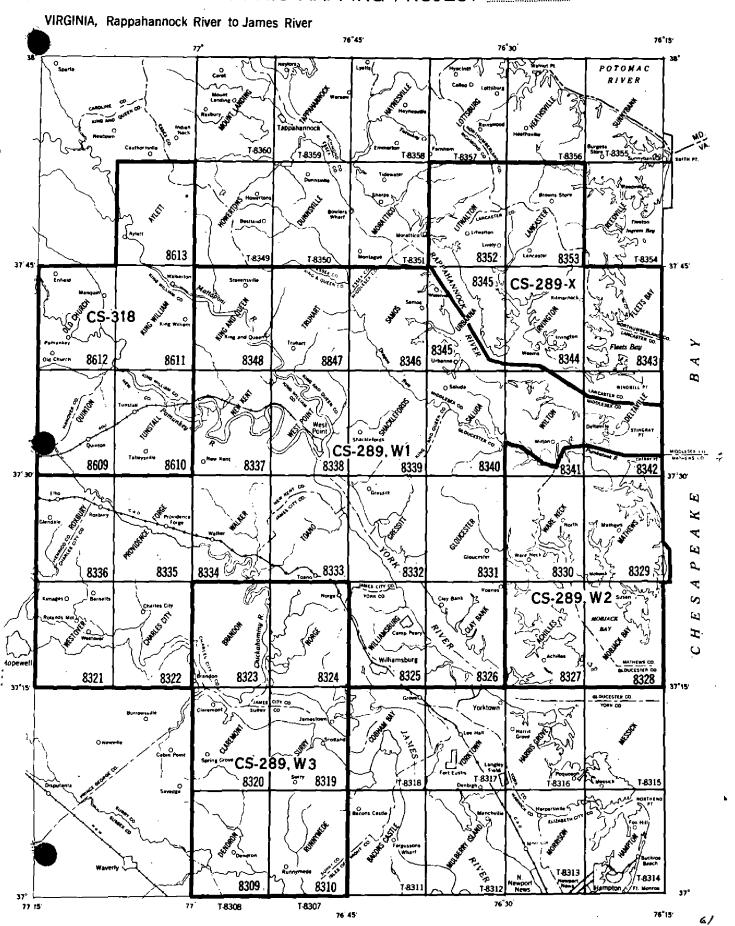
Identified:

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III): none

Remarks:

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



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-8335 is one 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 Piankatank 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°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 Eureau Archives.

# Field Inspection Report to Accompany

Quadrangle T8335

Project CS 289 W - 1

Virginia

Harland R Cravat, Chief of Field Party

### 5. Vertical Control:

### 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 discrepencies which might exist.

The following new 3rd order bench marks were pricked and described as the leveling progressed

> W 294 Z 296 X 294 A 297 B 297

#### Methods

### 3rd Order

About seven linear miles of 3rd order levels were completed by Messers Alfred R. Knaack, Engineering Aid, and Robert R. Kim, Engineering Aid, using instruments and methods as prescribed by the Division of Geodesy.

At one mile intervals along level lines, permanent bench marks were marked and described. Intermediate spot elevations were also established. The 3rd order spot elevations are segregated from the 4th order by the dode letters and numbers being suffixed by the small letter a.

4th Order

About 48 linear miles of 4th order levels were completed by the following personnel.

A. Faulds, Washington Office Employee
Jerry R. Valenstein, Engineering Aid
Elmer L. Williams, Engineeringi Aid
Matthew A. Stewart, Engineering Aid

The quadrangle served as a training quad. and furnished the basis to giving levelmen experience in trigonometric leveling. In the course of the leveling and the shifting of personnel the field notes became a jumbled mess, with some loops being run 3 and 4 times with no pair in agreement.

The Field notes were analyzed by Mr. Harland R. Cravat, and under his direction recopied in an effort to make them more understandable. (All notes, however are being forwarded).

After the notes were re-copied and appeared to be in good form the levles were checked by wye level methods. The original work was accomplished by trigonometric methods using a  $4\frac{1}{2}$  imch Kern Theodolite equiped with stadia hairs and Simmons Adams leveling rods. Computations were made to the nearest 1/10 of a foot using a stadia slide rule.

All spot elevations tested by wye level methods have the elevations indicated on the photographs in red ink, under the trigonometric spot elevations. For all use the elevations entered in red ink are to be considered correct. The Blue may be stricken out after the office has had an opportunity to inspect the values.

All trigonometric level information appears on the photos in blue ink. The code letters PF prefix all spot elevations. The following code was used to segregate the closed elevations from the unclosed elevations.

- L. Elevations circled indicate the loop was not closed on a known elevation or an extra inclined or declined foresight.
- 2. Elevations underscorfed by a solid line indicate the loop and spot elevations were closed on a previously determined elevation or existing bench mark.

Submitted with the photos is a layout showing the approximate position of the spot elevations. Also on the first page of each volume is the following information: Loop (spot Elevation), page, closure, Linear Miles, Field notes checked by, Adjustment checked by, Inked on Photo #, Copy checked by, and Remarks.

Respectfully Submitted March 29, 1946

Harland R Cravat Photogrammetric Engineer

64

# Radial Plot Descriptive Report to Accompany quadrangle T-8355 Q-7-8336

### Project CS 2899-1

l. General Description.-Surveys T-9335 and T-9336 are part of a series of 75 minute topographic quadrangles which are being mapped by means of the radial line plot and the Reading storopolotter using motal mounted nine-lans photographs at 1:20,000 scale.

The area being mapped lies 23 of Richmond, Virginia north of the James River and in the vicinity of the Chickhoning liver.

It will be consided by both graphic and sternoplotting photogrammatric methods and be in accordance with Instructions No. 17 dated September 15, 1947.

- 2. Layout Chetch. A photostat showing the layout of the map quadrangles, the horizontal ground control used to control the plot, and the photograph centers is attached to this report. A red in check on the control used gives a ricture of the distribution of horizontal control over the area.
- 3. Photographs.-The photographs used in this radial line plot were taken with the USCEGS nine-lens camera with the inch focal length at 1:20,000 scale.

They were flown harch 29 and 30, 1947, at near moon at a time when very little foliage was on the hardwood trees, and ground detail is exceptionally clear and identifiable.

fith the exception of a partial vacuum failure in a few instances the photographs were satisfactory for radial line plotting and no rectification was deemed necessary preceding the final laydown of the plot.

Hington photographs were mounted on aleas aluminum shecting in the regular manner and are listed in flights as follows:

22252 to 22257, Incl. H to E 22273 to 22279, Incl. E to W 22280 to 22285, Incl. W to E

The flights run east and west as noted and the number and distribution of the photographs is satisfactory.

The photographs, were prepared for radial plot purposes in the following manner:

Azimuth and cross azimuth lines were drawn to con-

jugate centers as indicated on the attached index. All horizontal control stations recovered and identified on the field inspection photographs were priched on all the office photographs on which they could be identified.

A number of well defined points were selected and pricked on the office photographs to be used as secondary pass points and among those closen were many points whose elevation was determined by levels by the field inspection party in 19kh. Close inspection and reference to the annotated field photographs made possible the choice of enough secondary pass points whose elevations were known to give sufficient radial plot positions for subsequent rectification templet construction.

Perhaps more of these secondary pass points with elevations were chosen than will be needed in the construction of the rectification templet, but their value will show up when the contouring is done on the Reading plotter. These points are indicated with white pigment ink.

Additional secondary pass points were chosen to increase the density sufficient enough to give coverage within the quadrangle limits or an average of every four inches in all directions.

Secondary passpoints outside the quadrangle limits (as shown on the attuched index) are confined to those of move elevation and to common points as determined by previous plots to the south (T-8321) and multiplex T-8609, T-8610, and T-8337 to the north of the quadrangle area.

Secondary pass points in the junction areas of adjoining manuscripts were chosen for their value in making satisfactory junctions between quadrangles.

4. Control.-Twenty-eight horizontal control stations were used to control the radial line plot.

Three USCEGS triangulation stations and one transit traverse station were recovered for use within the quadrangle limits of this survey. The remainder of the stations recovered and chosen for use to control the plot were twenty-two USCEGS triangulation stations and two transit traverse (unclosed) stations. All ground triangulation stations with the exception of Cypress, 1934 had substitute stations identified by the field inspection party. These positions were computed from data on the Control Identification Card furnished by the field inspection party and are shown on Form 1-23CC-12 attached to this report.

One previously established triangulation station Marall, 1912, in quadrangle T-8336 was not recovered for use in controlling the plot.

or better with the exception of Reeves, 1932 substitute station and Cypress; 1934. Both of these stations had other control in proximity that held good. The tolerances are listed on an attached sleet with this report and are not excessive in the instances mentioned. There is no explainable reason for Reeves, 1932 substitute station not holding position, but Cypress, 1934 was identified by only two distances, and the small angle between them rendered the pricking rather weak for 1:20,000 scale photographs. The two measurements given from identifiable objects were short, but the transfer of points could easily have been insignified on the office photographs by an amount listed as the tolerance.

5. Templets.-Vinylite templets were used for the nineteen metal nounted photographs used in laying the plot with the aid of Haster templet No. 21632 which was prepared in the Washington Office. Care was taken to adjust each chamber to the master templet in an attempt to correct for any manor errors in the transforming and printing of the photographs.

Craftint No. Ill red in was used to draft the radial lines and was found to be generally satisfactory for this purpose. Among its qualities for use in this step are the following: (1) the ink, being of a powdery nature when dry, can be removed with a dampened rag with Craftint No. Ill thinner, and (2) the surface is thereby salvaged intact for use on subsequent plots. The inf does not eat into the vinylite plastic surface and can be either scraped off with a sharp lnife or wiped with the dampened ragas in (1) above.

6. Preparation of the Base Grid. The base grid was ruled on the projection ruling machine at intervals of 6.0 inches for X and Y, and assigned 10,000 foot values. The grid is in four sheets numbered one to four and its position is shown on the attached sheet layout. The material is called "Copyrite", the trade mark name used, and is a vinylite plastic which holds scale well.

ill of the plane coordinate positions of the stations listed and used in the plot were plotted and checked by converting the feet to meters and then plotted with the 1:10,000 scale meter bar. These figures are shown in the extreme right hand column on the geographic position form attached to this report.

Only the substitute station positions and intersection station positions were plotted on the base grid for use in controlling the plot. The four base grids were natched at their cormon X and Y values and joined together with scotch masking tape, and diagonals were chucked to assure a good junction.

### 7. Details of Radial Plotting .-

Upon examination of the location of the horizontal control stations available for control of the photographs used in this radial plot, it was decided to start the plot by laying templet 22278 and holding to the fix it had from six control stations and build from there on down the center flight 22277, 76 etc. to 22273.

Inasmuch as the three flights ran east and west the laying of the center flight proved satisfactory procedure as the side flights reached out to control along the James River to the south and to control at Menrico, Tunstall and New Kent to the north.

Three laydowns were made in an attempt to get a succeedingly better plot each time. The plot did not improve appreciably the third laydown over the second whereupon it was decided to fade Reeves, 1932 sub. sta. and Cypress, 1934 and still hold other control and preserve the 4, 5, and 6 ray intersections in the manner desired throughout the plot.

Good intersections were obtained on all pass points, bench mark points, and ploto points incidental to the plot.

A small number 80 drill was used to drill as near a vertical hole as possible through the several thicknesses of vinylite and the base gric. An attempt was nade to drill the holes as nearly tangent or better to all rays concerned in the intersections.

Although the photographs have tilt, it was not considered enough to compute for the location of an isocenter and the subsequent redrafting of templets for an increased accuracy of the radial plot positions obtained.

The whole laydown was disassembled and the points were drafted with 3.5 mm. diameter blue cid ink circles.

The results of this plot are believed to be such that the compiler can obtain satisfactory accuracy in the compilation of the map manuscript and be well under 0.5 mm. of true geographic position.

6. Remarks.-Special effort was made in preparing the photographs and templets with the idea of obtaining a precise plot with a minimum of additional work needed to prepare the photographs for the Reading plotter.

As has been mentioned in this report, secondary pass

points with known elevations and now part of the radial line plot, and it should be possible to make rectification templets without further preparation of the photographs.

It does not take appreciably longer to select points in this manner providing the field party has chosen field stations satisfactory for use as photo points in the preparation of the office photographs.

Respectfully submitted,

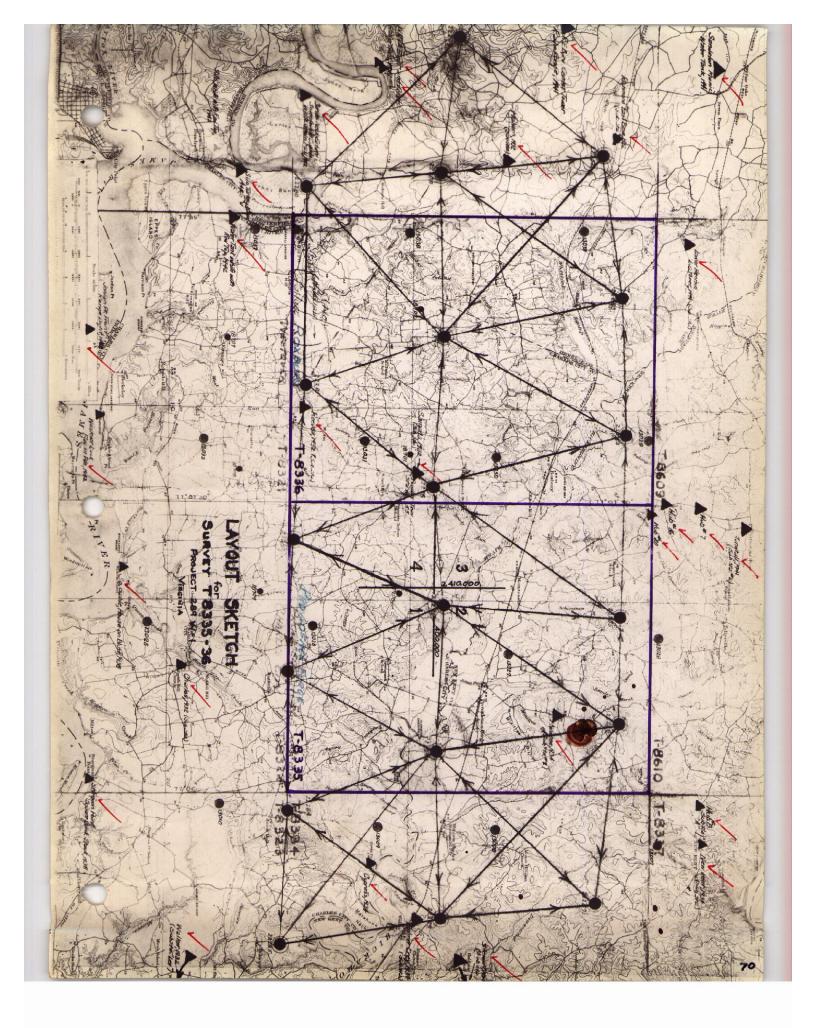
Koarve J. French

Roscoe J. French 10 January 1949

Approved and forwarded 7 February 1949

Graphic Compilation Section

Washington Office



IDENTIFICATION REPORT HORIZONTAL CONTROL Project CS 289W-1

	Station Name	Recovery Photo	Recovery Date	Method Pricking	Remarks g Data	Tolerance	Remarks
T-8335		13027 3-14-45 4561911	3-14-45	Card	Sketch	Coronna .	# # Sub. Sta. #2 Fell E. of sub sta.
	nuo #20 (1mmscall 1rav. 1944)	4502013-17	4-20-45	Card	Sketch	Held	2 Cuts-tangent
T-8336	Reeves, 1932 Samaria, 1932	7643-44 13031	8-20-42 4-13-44	Book 5 Card	Sketch Sketch	0.3mm Held	Fell E. of sub. sta. Sub. Sta.
N. of T-8335 New Hub	r-8335 New Kent, 1934 Hub #8 A (New Kent Trav.)	13007 450268	11-26-111 3-27-45	Card	Sketch Sketch	Held Held	2 cuts Sub. Sta. #1 2 cuts
E. of T-8335 Stem Walk Cypr Palm	r-8335 Stewart, 1934 Walker, 1932 Cypress, 1934 Palmer Grey, 1934	1298 <b>6</b> 753 <b>6</b> 7811 12986	6-20-45 9-4-42 2-9-43 6-20-45	Card Book 5 Card Card	Sketch Sketch Sketch Sketch	Held Held O.3mm	2 cuts 2 cuts S.S. "Lev" Fell E. of Station Sub. Sta.
\$0 • OS	So. of T-8335 Charles, 1932	7545-6	8-20-42	Book 5	Sketch	Не].d	Sub. Sta. "Hen"
	So. Gable, House on Bluff	7532	8-12-42	Book 4	No Sketch	Held	2 cuts
·	1930 Sturgeon Pt. Square Brick Stack, 1938	7545	7-29-42	Book 4	No Sketch	Held	2 cuts
N. of	N. of T-8336 Lower Hennico L. O. Tower,	13039	5-9-14	Card	Sketch	Held	2 cuts
	Tunstall, 1941	13029	4-20-14	Card	Sketch	Held	2 cuts Sub. Sta.
	Hub 16 (Tunstall Trav.)1945	450464- 45046	, 1-20-45	Card	Sketch	Held	2 cuts

2 cuts	Sub.Sta.(USGS 34A)	Sub.Sta. OP 347 Recovery	OP 347 Recovery	1	•			2 cuts	2 cuts
Held	Held	Held Held	Held Held	Held	Held	Held	Held	Held	Held
Sketch	Sketch	Sketch	Sketch	Sketch	Sketth	Sketch	Sketch	•	No Sketch
Card	Card	Card	Card	Card	Card	Card	Card	Book h	Book 4
4-20-45	4-12-44	4-13-44 1947	1947 3-18-43	3-18-43	3-25-43	3-25-43	3-11-43	8-10-42	8-12-42
4502013	13039	13039 4701272	4701274 7624	7624	7628	, 764î	7641		7530
Hub 7 (Tunstall Trav.)1945	W. of T-8336 Maluern, 1932	Kichmond East Base, 1932 Sandston Municipal W.T., 1941 Richmond, Richard E. Byrd	Center Radio Range Tower, 1941 Edgeworth WRVA East &	West Radio Towers, 1941	Curles Neck Estate, White Grain Mill SE Gable, Cupola	1942 Silo Turkey Island, 1942	Red Top, 1942	S. of T-8336 Jordan Pt. Front Range	Westover Dock, Flag on Pile, 1942

**Fhotogrammetry** 

8935				<b>)</b> .				)	
MAP T- 8936	***************************************	PROJE	PROJECT NO.CS-289WT	SCALE OF MAP 1:20,000	000	SCA	LE FACTC	SCALE FACTOR 1.0000	
STATION	GP page Desc page Source or information (INDEX)	e DATUM	LATITUDE OR V-COORDINATE LONGITUDE OR x-COORDINATE	Lambert Grid DISTANCE FROM GRID IN FEET. OPPERSTRUCTON WINDERSON SECONS REMARKED AND SECONS REMARKED AND SECONS	DATUM	POLYCO N.A. 1927 BISTA FROM GRID OR P IN WE FORWARD	Polyconic N.A. 1927 - DATUM bistance rrom grid or projection line in weters FORWARD (BACK)	Lambert Dereg DISTANCE FROM GRID ON MEDERS IN METERS FORWARD (BACK)	rt Stance Moexicondos Ers (Back)
Reeves, 1932	P. 27 No.327 P. 9-21	.NA 1927	37 22 46.861 77 10 00.243	2,387,387,88 383,692,10		1444.6 6.0	405.1 1470.2		,
Reeves, 1932. S. Sta.		=	37 22 47.16 77 09 59.73	2,387,428,85		1453.977 1469.6341	395.723	3 2264.31 5 1134.75	1783.69
Samaria, 1932	P. 56 No.327 P.39-10	=	37 25 07.372 77 08 18.561	2,395,389.11 398,018.70		227.3 456.4	1622.µ 1018.9		
Samaria, 1932 S. Sta.		#	37 25 06,283 77 08 19,532	2,395,312,35 397,907,444		193.7 480.3	1656.02	1619.2	1428.8
Malvern, 1932	P 26 No.327 P.12-27	± ·	37 26 55,823 77 16 26,131	2,355,917.71 108.1417.29		1721.0	128.7		
Malvern, 1932 S. Sta.		=	37 26 55.20 77 16 26.96	2,355,851.70		1701.7	148.0	1783.6	1264.4
Richmond East Base, 1932	P.26 No.327 P12-37	# '	37 29 08,275 77 16 19,138	2,353,889,54		255.1	159h•6		
Richmond East Base, 1932, S. Sta.		E	37 29 08,502	2,353,508,52		262.1	1587.64	1069.4	1978.6
Edgeworth W.R.V.A. East Radio Tower,	P-402 No.728 P-9	E	37 24 17.318 77 18 52.325	2,344,331,12		1323.3	8 051	1320.1	1727.9 2357.0
Edgeworth WRVA West Radio Tower	P.402 No.728 P.9	=	37 24 14.288 77 18 56.278	2,344,016.03 391,956.66				1224.1	1823.9 2451.6
Gurles Neck Estate P.676 White Grain Mill, No.32 S.E. Gable Cupole P.31	e P.676 No.327 P.31	E	37 23 24,823 77 17 35,182	2,350,622,81				189.8 211/13	2858.2
Lookout Tower, 1941	P.397 No.327 P.39€8	=	37 30 37.603 77 14 20.551	2,365,743,82 431,009,35		1159.3 504.7	690.5 968.9	50.7	1297.6 2741.0
C COMPUTED BY T. J.	French	DA	олте November 1948	CHECKED BY. R. Wil	Williams	<b>a</b>	DATE NOVE!	November 1948	M - 2388 - 12

8335 MAP T. 8336	,	- 1	PROJECT NO. CS. 289 WI	SCALE OF MAP 1:20	1:20,000	SCALI	E FACTO	SCALE FACTOR 1,0000
STATION	GP page Desc. page source of information DA (index)	age DATUM	LATITUDE OR V-COORDINATE LONGITUDE OR x-COORDINATE	Lambert Grid DISTANCE FROM GRID IN FEET. DIRTHANDROMBOCOGE XX NETGERS XEGNERACK XEGNER	DATUM	POLYCONIC N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	Lycont C 1927 - DATUM DISTANCE D OR PROJECTION LINE IN METERS ARD (BACK)	Lâmbert FROM GRID OBTANCE FROM GRID OBTANCE IN METERS FORWARD GRACK)
Turkey Island Silo, 1942	P.675 No.327 P.30	NA 1927	37 21 24.369 77 16 03.470	2,358,182,50				2494.0 553.9 1509.2 1538.8
1 %	P.143 No.389 P.3	E	37 28 08.042 77 02 00.480	2,425,601,93		247.92	18.1091	
Mintree, 1934 #2 Sub. Sta.	T8609 DR	=	37 28 77 02	2,425,599.37. 417,095,63		7 7 7	1495.8 1461.8	1702 1 1341.6 2162 7 886.1
Tunstall, 1941	P395 No.728	<b>2</b>	37 31 57 019 77 06 59 486	2,401,160,33		1757.84 1460.86	91.9	
Tunstall, 1941 S. Sta. No. 2	566 a	<b>E</b> 1	37 31 57.41h 77 06 56.603	2,401,391.94	ri ri	1770.04 1389.71	79.7	424.3 2623.7 2920.5 127.5
	P.675 No.327 P.30	Ħ	37 21 21 043 77 14 59 757	2,363,330,29		1618.7 1470.6	-	[ , ] _
House on Bluff So. Gable,1938	P.8-21	=	37 19 05.617 77 05 47.732	2,408,099,19 361,614,05				2468.6 579.4 492.0 2556.0
Tunstall Trav., Hub #7, 1944		=		2,399,157.85		1770.0	79.7	2791.3 256.7 1060.7 1987.2
Tunstall Trav., Hub #15 1944		=		2,398,284,13		407.1 912.5	561.3	2525.0 523.1 27L1.9 306.2
Charles, 1932	P.27 No.327 P.6	=		2,419,780,16		650. <b>1</b> 533.3	1199.6	
Charles, 1932 S.Sta. "Hen"		#	37 20 20.867 77 03 21.86µ	2,419,764,43		643.3 538.2	1206.39	2976.2 71.8 2865.5 182.5
Cypress, 1934	P.161 No.2389			2,445,241.6 393,768.3				1
A 1 FT = 3048006 METER COMPUTED BY: R. J.	French	νο		ED BY, R.	Williams	DAT	November 1948	r 1948 M.2388-12

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CD .
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MAP T. 8335-	36	PROJE(	PROJECT NO. CS 289 WL	SCALE OF MAP 1:20,000	000	SCAL	SCALE FACTOR	1,0000
STATION	GP page Desc page sourceof information (index)	e DATUM	LATITUDE OR W-COORDINATE LONGITUDE OR x-COORDINATE	Lambert DISTANCE FROM GRID IN FEET. COURTON CONTROLL OF CONTROLL O	DATUM	POLYCONIC N.A. 1927 - DATUM DISTANCE BECKERENCON PROJECTION LINE IN METERS FORWARD (BACK)	POLYCODIC 1927 - DATUM DISTANCE NUCAR PROJECTION LINE IN METERS	Lambert Bachoralstance FROM GRIDZOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOC
Charles, 1932 S.Sta, Hen"		NA 1927	37 20 20,867 77 03 21,86h	2,419,764,43 369,401,37		643.3	1206.39	2976.2 71.8
Cypress, 1934	P.161 No.389 P.2	=	건덩	2,145,241.6 393,768.3				~ ~
Westover Dock Flag on Pile,1942	P.524 No.327 P.2-23	n	37 18 34.513 77 08 53.428	2,393,145,59 358,249,75		1064.0		2958.9.2089.2 2514.5 533.5
New Kent, 1934	P.143 No.389 P.3	=	37 31 02.773 76 58 111.961	2,441,077,17 434,655,32				
New Kenty 1934 S. Sta. #1		=	75 31 02.77 76 58 44.96	2,441,088,68 434,720,64		89.1	1760 <u>.65</u> 363 <u>.</u> 6	1.1
Haxall, 1942	P.671 No.327 P.37	=	37 22 32,482 77 14 37,618	2,365,021,69		1001.4 925.6	848.3	
Hub #8, New Kent Trav, S.Sta,"A"	18609 725 d	# .	37 31 0.670 76 59 43.937	2,436,329,88		20.7	1829.1	1929.3 1118.7
Hub #20 (Tunstall Trav.)	Tege09 D.R. & 725 d	= .	37 29 52.598 77 07 22.638	2,399,479,15		1621.5	228.2	
Palmer Crey 1934	161-63 No.389 P.2	#	37 25 14.383 76 56 40.642	2,451, <b>6</b> 72,44				ا دی ا
Palmer Crey, 1934 S. Sta.	T-8337 D.R.	<b>.</b>		2,451,644,77 399,527.76				1
Point pk, 19	Squar No.327	# 4	37 18 26.266 77 00 20.958	2,434,555,36		809.7	1000.0 961.h	🖳 .
Richmond, Richard E Byrd AP, Center Radio Range Tower,194	E.P.401 No.728	=	37 28 16.000 77 20 15.358	2,337,334.83 416,321.87		1,93.3	1356.5	2235.6 81 1926.9 112
COMPUTED BY. R. J. French	French	D.A.	оате Мочешвег 1948	CHECKED BY, R. W	Williams	VQ	рате Можель	Nowember 1948

Desc.	G.P. page Desc.page			Lambert Grid		N.A. 1927 - DATUM	11
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET,  SERTBOUCKONSTRUKTORY MANAGER  ANDRING BRAKEBOX	DATUM	DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	INE FROM GRID ON TRANCE IN METERS  () FORWARD (BACK)
Sandston Municipal Water Tank, 1941	P.398 No.728 P.8	NA 1927	37 31 18.751 77 18 51.184	2,343,887,80 434,888,16		578.1 1271.7 1256.9 216.5	7 1185.0 1863.0 5 1489.9 1558.1
Walker, 1932	P.27 No.327	=	37.19 59.355 76 53 56.152	2,465,480.04 367,962,78			
Walker, 1932 Sub, Sta, "Lev"		E	37 19 76 53	2,165,164.31			1665.5 1382.5 2401.3 643.7
Jordan Pt. Front Range Lt., 1938	P.525 No.327 P.10	<b>.</b>	37 18 30.68 77 11 26.84	2,380,758,58			1 0
Stewart, 1934	P.143 No.389 P.3	= -	37 25 50,831 76 52 25,125	2,472,218,15			
Stewart, 1934 Sub. Sta.		#	37 25 76 52	2,472,247.75			685,1 2362,9
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COMPUTED BY: R. J. French	French		8.101 TAN	R. Williams		Ž	November 1.948

### COMPILATION REPORT

### 26. Control:

Details are available in Radial Plot Report to accompany Description Report, T-8336, which includes a list of all control used and remarks as to how each station was held to. Control stations located within the limits of this quadrangle and shown on the manuscript are listed on a separate page in this report.

Vertical control was furnished as outlined in paragraph 5, this report, and served as a datum basis for contour compilation. Used as such, level line TU-83 to TU-92 could not be checked consistently on the compilation instrument and was not held to; and investigation of this line in the field level-book proved the line to be in error of closure by 4.6 feet. However, the quantity and dispersion of usable elevations furnished was quite adequate for the purpose served. Elevations along this level line were checked and corrected by the Field Editor.
Radial Plot:

See Radial Plot Report to accompany Descriptive Report for quadrangle T-8336.

### 28. <u>Detailing:</u>

27.

Planimetry and contours were compiled on the Reading Plotter from rectified metal-mounted nine-lens prints of the original photographs used in laying the radial plot. Cultural details were delineated on the instrument guided by data from field inspection photographs. The field inspection was accomplished in 1944 and 1945 and was quite obsolete at the time of compilation as evidenced by new highways and woodland changes apparent in the compilation photographs dating 1947. A thorough field edit will be required to verify the details not covered by the field inspection.

The photography used in compilation was quite adequate for the required purpose.

### 37. Quadrangle Junctions:

This manuscript is in good agreement along junctions with quadrangles T-8610 to the north and T-8336 to the west, both of which have been previously compiled as a part of this same project, 289-W1. To the east and south, T-8334 and T-8322 respectively are also part

of this project but as yet not completed. When compiled, the corresponding edges will be junctioned to this manuscript. Junctions checked during review

## 38. Quality of Contours:

All contours on this manuscript conform to the national map standards of accuracy for a contour interval of 20 feet.

See Review Report for comparisons with other surveys.

<del>Chi</del>ef,

Section

FROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS M - 2388-12 (BACK) SCALE FACTOR 1.00 FORWARD DATE NOV. 1948 247.9 (1601.8) 11.8 (1462.6) (BACK) N.A. 1927 - DATUM FORWARD CHECKED BY, Robt. Williams DATUM SCALE OF MAP 1:20,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) 2,425,601.93 416,746.03 FORWARD LONGITUDE OR x-COORDINATE LATITUDE OR y-COORDINATE Virginia PROJECT NO. CS-289 W-1 08.042 00.1480 DATE NOV. 1948 58 02 37 77 SOURCE OF DATUM į NA 1927 GP page ACOMPUTED BY. R. J. French p.143 p.3 (INDEX) MAP T- 8525 MINTREE, 1934 STATION

	GEOGRAPHIC NAMES Survey No.		/	San October 1 Con October 1 Co	S. Wed S.	10° / 20° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1	Triocal Maria	Carde	AND MENDIN	D. S. Jaker	5/
0	T-8335	1/4	No. Or	20. C	2. May	St. To de sion	1000	0.00	Soud M	55	/
Y	Name on Survey	N	В	/ 0	/D	E	F	G	/ H	/K	
	Bethany Church	AI	pine	Sch	- (						1
	Bethany Road	/									2
	Binns Store	, C	eda	- G	rove	Chi					3
	Bradley Run	/									4
	Charles City County	- Ch	apel	A		- Ch.	406	m.			5
	Charles City Road					di di					6
	Chesapeake and Ohio										7
	Chickahominy Distric	t									8
	Chickahominy River										9
-	Collins Run										10
*	Courthouse Creek										11
0	Cumberland District							*			12
	Dockman Swamp								dep		13
	East Run										14
	Emmalis Ch & Cem										15
	Fire Tower										16
	Glebe Creek										17
	Greenyard Swamp										18
	Harrison District										19
	Holly Landing										20
	Hubbard Family Com										21
	Jones Run										22
	Wordans Jerdones	Bi	s W	ood.	2						23
	Little Elam Churck	1-4	11.	E/2		1					24
Q	Menoah Ch & Cem	LUL		_121	7 32	4	Y .				25
	Mintree Branch Mini	tree	Bra	ench							26
	Mintree Hill Minit	Control of the Contro	Hill								27
				4							м 23480

GEOGRAPHIC NAMES Survey No.		/	A PO OC OC	S. Wold A.	*		2. O. dide of	Was of March of the State of th	AHOS /	1
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Name on Survey	A	B	CO	0	E	F	G	H	/K	
Mountcastle										1
Mountcastle School										2
Mt Calvary Ch & Cen	L									3
Mt Zion Ch & Cem										4
New Kent County										5
New Kent Road										6
Old Ferge Pend Oldhouse Landing										7
Olivet Ch & Cem										8
Parish Hill Creek										9
Piney Branch	( )									10
Pocahontas Trail										11
Possum Run										12
Providence Forge							*	64		13
Richmond Club Pond										14
Roaches Corner										15
Rumley Marsh										16
Ruthville Road										17
Sandy Bottom Church										18
Schiminoe Creek										19
Stony Run										20
St Peters District										21
Tator Run				GEO	RAP	HIC	NAM	ES		22
Toe Ins Swamp				und	erlin	ed	in r	-ed		23
Tonyham Swamp				are	ap	prov	ed.			24
Tyler District					11/2	1/52				25
Winns Landing	Le	<u>~</u>		/	IK	100				26
Cedar Grove Cem.				Chec	ked a	-ap	rove	1		27
VU.S. # 60						3-	31-5	4 a	LU.	M 234

### PHOTOGRAMMETRIC OFFICE REVIEW

T. 8335

1. Projection and grids2. Title3. Manuscript numbers4. 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)
/ - checked
ALONGSHORE AREAS  (Nautical Chart Data)
12. Shoreline13. Low-water line14. Rocks, shoals, etc15. Bridges16. Aids
12. Shoreline13. Low-water line14. Rocks, shoals, etc15. Bridges16. Aids to navigation17. Landmarks18. Other alongshore physical features19. Other alongshore cultural features19.
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
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
Riviewer Supervisor, Review Section of Unit
Itereoscopic Washing dection
41. Remarks (see attached sheet)
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-8335 (Providence Forge) Project CS-289 J. C. Sammons, Chief of Party

51. METHODS -- The quadrangle was inspected by riding over all passable roads to check their classification, to classify buildings, to examine questioned areas and to visually check contours and planimetry. Trails, to be shown, were checked by walking over them and by utilizing local information. Standard surveying methods were used for corrections, additions and checking.

All additions, corrections and deletions have been either indicated on the field edit sheet or cross referenced to the photographs. Red ink was used for additions and corrections and green ink for deletions. No legend is shown on the field edit sheet or photographs.

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, four nine lens 1:20,000 scale photographs numbered 22255, 22256, 22274, 22275 and three 1950 single lens contact prints numbered 3, 5 and 7.

- 52. <u>ADEQUACY OF COMPILATION</u> -- The map compilation is near adequate and will be complete with the application of the field edit data.
- 53. MAP ACCURACY -- The horizontal positions of the mapped details appear to be good. No vertical accuracy test was made of the contours. In general testing of the map approximately 75 points on various contours were checked with no error being found greater than 1/2 a contour interval.
  - 54. RECOMMENDATIONS -- None offered.
  - 55. EXAMINATION OF PROOF COPY -- No one was requested to examine a proof copy of this map.

The pond located at Providence Forge is not known as Richmond Club Pond. Reliable local information discloses that the pond was built for the old forge and mill that once stood near the ponds dam. All persons contacted concerning the proper name for the pond believes it should be named "Old Forge Pond".

A list of names of persons kiving in the area is shown on the discrepancy print if more information is desired.

56. 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, 28 April 1953

Elgan I. Jenkins Elgan T. Jenkins Cartographic Survey Aid

### Review Report T-8335 Topographic Map April 1, 1954

62. Comparison with Registered Topographic Surveys .-

T-1337b

1:20,000

1873-75

T-8082

1:10,000

1943

This map supersedes these surveys for nautical charting purposes. There is no tidal water on this quadrangle since the tide has no effect upstream from Walkers Dam across the Chickahominy River. See T-8334.

63. Comparison with Maps of other agencies .-

USGS Charles City Quad 1:62,500 1944

The construction of U.S. Highway 60 is the most prominent cultural change shown on the map manuscript.

64. Comparison with Contemporary Hydrographic Surveys. There are no contemporary hydrographic surveys.

65. Comparison with Nautical Charts .-

Nautical Chart 530 1:40,000

1940

No major differences were noted.

66. Adequacy of Results.-This map complies with the National Standards of Map Accuracy. See Field Edit Report, Item 53.

Reviewed by:

C. Theurer

APPROVED

• 4

Chief, Review Branch

Div. of Photogrammetry

Chief, Div. of Photogrammetry

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Chief, Nautical Chart Branch

Division of Charts

hief. Div. of Coastal Surveys