

8322

ORIGINAL

Diag. Cht. No. 78-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topography

Field No. CS-289-W1 Office No. T-8322

LOCALITY

State Virginia

General locality James River

Locality CHARLES CITY

1953

CHIEF OF PARTY

Balt Fred E. Peacock, Chief of Field Party
Div of Photogrammetry, Washington, D.C.

LIBRARY & ARCHIVES

DATE September 29, 1955

8-1870-1 (1)

DATA RECORD

T-8322

Project No. (II): **CS 289 W1** Quadrangle Name (IV): **CHARLES CITY**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**
(III) = **Photogrammetry Manual.****Office Files**Method of Compilation (III): **Reading Plotters**Manuscript Scale (III): **1:20,000**Stereoscopic Plotting Instrument Scale (III): **1:20,000**Scale Factor (III): **1:1****FEB 27 1952**

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV): **MAR 4 1952**

Applied to Chart No.:

Date:

Date registered (IV): **SEP 6 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 (5) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III):

Lat.:

Long.:

Adjusted

~~coordinates~~

Plane Coordinates (IV):

State:

Zone:

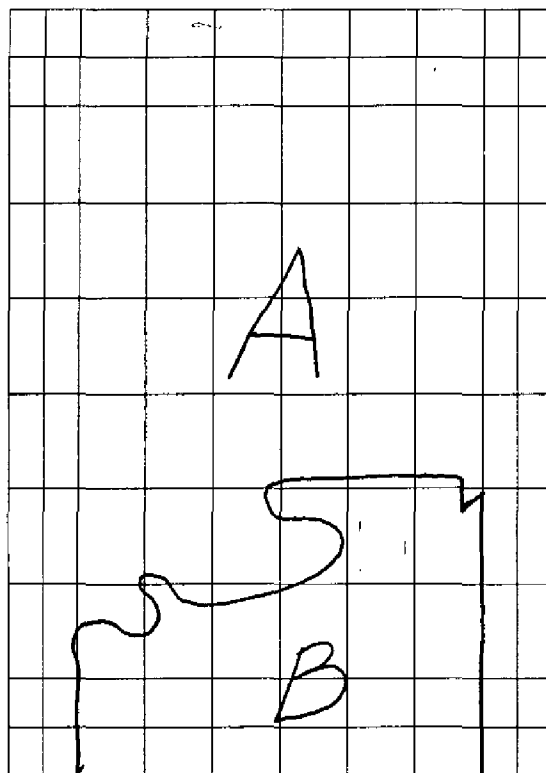
Y=

X=

1. **Virginal State Grid, South (10,000 ft interval)**
2. **U.S. Military Grid, Zone A (1,000 yd grid 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)
(X) (III)

A Area = Contoured on the Reading Plotter, model B,
by Orvis N. Dalbey and Louis Levin

B Area = Contoured on the Reading Plotter, model A,
by Clarence E. Misfeldt.

DATA RECORD

Field Inspection by (II): Fred E. Peacock

Date: ~~1944~~ 1945
Oct 26, 1945 / Feb 27, 1946

Planetable contouring by (II): None

Date:

Completion Surveys by (II): E. T. Jenkins

Date: 2-27-53

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. Field Edited 1953

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): Henri Lucas and Robert L. Sugden

Date: 14 Feb 52

Control checked by (III): John B. McDonald

Date: 15 Feb 52

Radial Plot ~~XXXXXXXXXX~~ Roscoe J. French
~~XXXXXXXXXX~~ by (III):

Date: 21 Jun 49

Stereoscopic Instrument ~~XXXXXXXXXX~~ delineation (III):Planimetry Orvis N. Dalbey
Contours Louis Levin
Clarence E. Misfeldt

Date: 31 Jan 52

Manuscript delineated by (III): Henri Lucas and John B. McDonald

Date: 20 Feb 52

Photogrammetric Office Review by (III): Louis J. Reed

Date: 28 Feb 52

Elevations on Manuscript checked by (III): Louis J. Reed

Date: 28 Feb 53

Camera (kind or source) (III): USC&GS 9-lens camera, model B, f=8.25 inches.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
18782	14 Dec 46	1344	20,000	HW
83	"	1345	"	"
22281	30 Mar 48	1229	"	"
82	"	Clock	"	"
83	"	Stopped	"	"
84	"	"	"	"
85	"	"	"	"
22304	"	"	"	"
5	"	"	"	"
6	"	"	"	"
7	"	"	"	"
12	"	"	"	"
13	"	"	"	"
15	"	"	"	"

Tide (III)

See Field Inspection
Report and ~~Recon Report~~
for additional photographs

Reference Station: **Hampton Roads**
 Subordinate Station: **Sturgeon Point**
 Subordinate Station: **Windmill Point**

Ratio of Ranges	Mean Range	Spring Range
0.8	2.1	2.5
0.8	2.1	2.5
0.9	2.3	2.7

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **60 sq mi**

Shoreline (More than 200 meters to opposite shore) (III): **about 24 miles**

Shoreline (Less than 200 meters to opposite shore) (III): **about 32 miles**

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered:

Identified: **14**

Number of BMs searched for (II):

Recovered:

Identified:

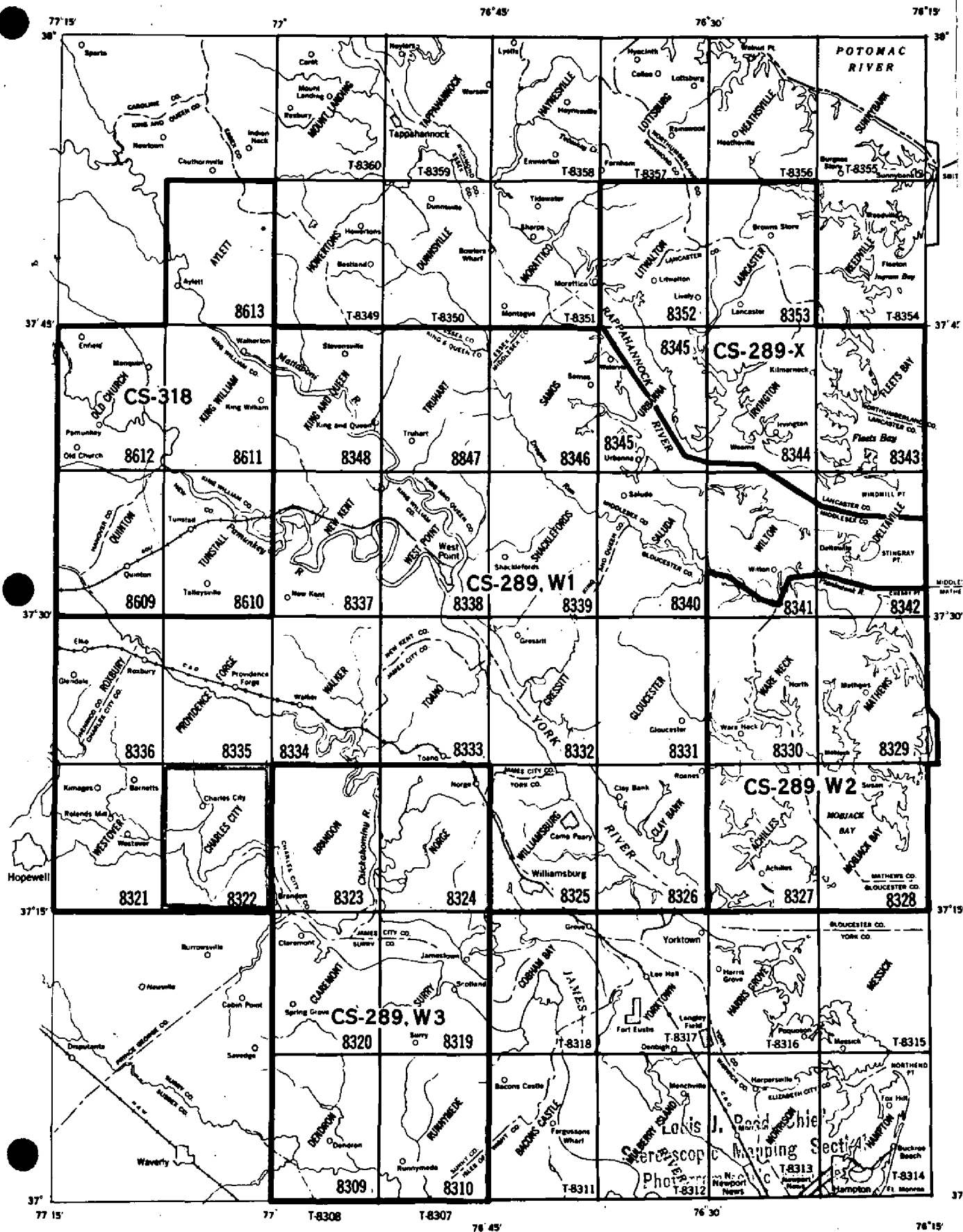
Number of Recoverable Photo Stations established (III): **None**

Number of Temporary Photo Hydro Stations established (III): **None**

Remarks:

TOPOGRAPHIC MAPPING PROJECT CS-289-318 (47)

VIRGINIA, Rappahannock River to James River



Summary T- 8322

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-8322 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 the 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.

T 8322

Descriptive Report to Accompany

Quadrangle T 8322

Project CS 289 W - 1

Virginia

Harland R Cravat, Chief of Field Party

5. Vertical Control:

Date Started 10-26-45

Date Completed 2-27-46

Linear miles 4th order levels 42

Linear miles 3rd order levels 1

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.

One new third order BM (C 297) was pricked and described.

Photographs

The following 9-lens photographs were used: 13024, 13025, 13032, and 13033.

Methods

3rd-order

About one linear mile of 3rd order levels were completed by Mr. Robert R. Kim, Engineering Aid, using instruments and methods as prescribed by the Division of Geodesy.

One new third order level line entered the northern portion of the quadrangle, closing on a previously existing bench mark. At one mile intervals permanent bench marks were marked and described along the level line, and intermediate spot elevations established. The 3rd order spot elevations are segregated from the 4th order by the code letters and numbers being suffixed by the small letter a.

4th order

About 42 linear miles of 4th order levels were completed by Messers John R. Smith, Engineering Aid and Elmer L. Williams, Engineering Aid.

Mr. Williams completed the leveling north of the James River and Mr. Smith completed the leveling south of the James River.

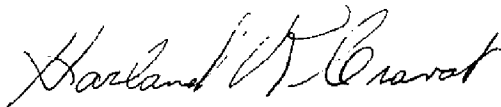
The leveling was accomplished by trigonometric methods, using both a Kern Theodolite and 7-inch Berger Theodolite equipped with stadia hairs and Simmons-Adams Leveling rods. Computations were made to the nearest 1/10 of a foot using a stadia slide rule. The average error of closure was about 1 foot and no loops were known to exceed the allowable error.

Level information appears on the photos in blue ink. The code letters CC prefix all spot elevations. The following method was used to distinguish 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 tide water and no adjustment made.
3. Elevations underscored by a solid line indicate the loop was closed on ~~the~~ a previously determined elevation or an existing bench mark.

Submitted with the photos is a layout sheet, showing the approximate position of the spot elevations. Also on the fly leaf of the level volume is the following information: Loop (spot elevations) page, closure, field notes checked by, adjustment checked by, inked on photo #, copy checked by, and remarks.

Respectfully submitted
March 22, 1946



Harland R Cravat
Photogrammetric Engineer

MAP T-8322 PROJECT NO. CS 289 W1 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	GP Page NO. OF INFORMATION (INDEX)	DATUM	LATITUDE OR U-COORDINATE LONGITUDE OR X-COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
					FORWARD (BACK)		FORWARD (BACK)		FORWARD (BACK)	
ELEVATED WATER TANK NO 1, 1938	323	NA 1927	37 19	32.25			944.2	905.5		
			77 07	13.50			320.1	1157.1		
ELEVATED WATER TANK NO 2, 1938	323	"	37 19	10.667			328.8	1520.9		
			77 06	29.024			714.6	762.7		
HOUSE ON BLUFF, S. GABLE? 1938	323	"	37 19	05.617	Geodesy was advised to change the name of this station to "Barn, South Gable."		173.2	1676.5		
			77 05	47.732			1175.3	302.1		
CHARLES, 1932	27	"	37 20	21.087			650.1	1199.6		
			77 03	21.665			533.3	943.7		
TWO STORY WHITE HOUSE ON BLUFF, CHY, 1938	323	"	37 19	12.414	Geodesy was advised to change the name of this sta. to "Two Story House, W. Chy."		382.7	1466.9		
			77 04	42.048			1035.3	442.0		
UPPER BRANDON FARMHOUSE ON WHARF, NW GABLE, 1938	322	"	37 17	18.713			576.9	1272.7		
			77 02	04.604			113.4	1364.6		
STURGEON PT SQ BRICK STACK, 1938	322	"	37 18	26.266			809.7	1039.9		
			77 00	20.958			516.1	961.5		
STURGEON POINT LIGHT, 1938	322	"	37 18	25.043			772.0	1077.6		
			77 00	24.339			599.4	878.2		
COPELAND, 1938	318	"	37 18	38.561			1188.8	660.8		
			77 04	26.468			651.8	825.7		
WIND, 1910	320	"	37 18	25.952			800.0	1049.6		
			77 05	36.397			896.3	581.3		

1 FT. = 3048006 METER

COMPUTED BY:

DATE

CHECKED BY:

DATE

M-2388-12

[illegible]

MAP T- 8322 PROJECT NO. S-289 W1 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE IN METERS		N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)	FORWARD	(BACK)
BRIAR, 1938	319	NA	37 17 42.549 77 01 15.266	1311.6	538.1	1849.7	110,000 m
DUNN, 1938	319	"	37 17 53.714 77 06 52.317	1686.9	193.8	1849.7	827.9 96.9
THUE, 1938	319	"	37-18 38.655 77-07 25.578	1288.6	189.2	1477.8	644.3 94.6
CHERRY, 1938	318	"	37 18 38.561 77 04 26.468	1188.8	660.9	1849.7	595.8 329.0
HARRIS, 1938	318	"	37 16 25.991 77 02 44.84	773.5	1076.2	1849.7	314.9 423.8
CHRISTIAN, 1871	318	"	37 18 11.854 77 01 59.985	365.4	1484.3	1849.7	182.7 742.1
FLORE REFERENCE MARK No. 2, 1910 dm	320	"	37 16 37.260 77 05 07.052	1148.7	701.0	1849.7	738.6 12
HOUSE, 1910 dm	320	"	37 19 12.018 77 04 44.997	173.7	1304.5	1478.2	574.3 350.5
JCQ (USE), 1938 dm	320	"	37 17 33.637 77 04 42.148	370.5	1479.2	1849.7	86.8 652.2
JCS (USE), 1938 dm	320	"	37 16 50.660 77 04 48.924	1107.9	369.4	1477.3	185.2 739.6
JCW (USE), 1938 dm	319	"	37 16 21.812 77 04 16.529	1037.0	812.7	1849.7	553.9 184.7
JCY (USE), 1938 dm	319	"	37 17 14.902 77 03 08.518	1038.1	439.8	1477.9	518.5 406.3
CHERRY, 1938	319	"	37 16 50.660 77 04 48.924	1561.7	288.0	1849.7	519.0 219.9
JCS (USE), 1938	320	"	37 16 21.812 77 04 16.529	1205.2	273.0	1478.2	780.8 144.0
JCW (USE), 1938	319	"	37 16 21.812 77 04 16.529	672.4	1177.3	1849.7	602.6 136.5
JCY (USE), 1938	319	"	37 17 14.902 77 03 08.518	407.2	1071.1	1478.3	336.2 588.6
CHERRY, 1938	319	"	37 17 14.902 77 03 08.518	459.4	1390.3	1849.7	203.6 535.5
JCS (USE), 1938	320	"	37 16 50.660 77 04 48.924	1107.9	369.4	1477.3	229.7 695.1
JCW (USE), 1938	319	"	37 16 21.812 77 04 16.529	672.4	1177.3	1849.7	104.9 634.1
JCY (USE), 1938	319	"	37 17 14.902 77 03 08.518	407.2	1071.1	1478.3	

M-2388.12

DATE 26 Mar 53

CHECKED BY William D. Harris

DATE 26 March 53

COMPUTED BY

MAP T-8322 PROJECT NO. CS-28441 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
J.D.A. (USE), 1938 dm	319	NA 1927	37-17-02.909 - 77-02-21.859 -	89.7 - 1760.0 - 538.5 - 939.6 -	1' 1849.7 1478.1	-	1:10,000 m 44.9 880.0 269.2 469.8
J.C.X. (USE), 1938 dm	319	"	37 16 00.164 - 77 03 58.829 -	5.1 - 1844.6 - 1449.5 - 28.9 -	1849.7 1478.4	-	2.6 922.3 72.4 7 14.5
J.C.O. (USE), 1938 dm	320	"	37 18 37.011 - 77 04 28.044 -	1141.0 - 708.7 - 690.6 - 786.9 -	1849.7 1477.5	-	(not plotted - too close) to COPELAND, 1938
FORT POWHATAN LIGHT, 1938 d	323	"	37 16 11.060 - 77 04 36.241 -	341.0 - 1508.7 - 892.9 - 585.4 -	1849.7 1478.3	-	170.5 754.8 446.4 292.7
DEW, 1910 dm	320	"	37 17 33.671 - 77 05 24.811 -	1038.0 - 811.7 - 611.1 - 866.8 -	1849.7 1477.9	-	519.0 405.8 305.5 433.4
PEN, 1910 (no check) dm	324	"	37 17 53.677 - 77 06 53.129 -	1654.8 - 194.9 - 1308.6 - 169.2 -	1849.7 1477.8	-	(not plotted - too close) to DUNN, 1938, and it is a no-check anyway
Byrd 1938 dm	318	"	37 16 52.753 - 77 00 58.084 -	1626.3 223.4 1430.9 47.3			
Eureka 1938 dm	318	"	37 18 27.301 - 77 00 22.936 -	841.6 1008.1 564.8 912.8			Not plotted - Close to Sturgeon Pt, Sq Brick Stack
Fob 1938 dm	317	"	37 16 40.735 - 77 00 00.775 -	1255.8 593.9 19.1 1459.1			
Fort 1910 dm	56	"	37 16 10.979 - 77 04 36.112 -	338.5 1511.2 889.7 588.7			Not plotted - Close to
Fort Ecc 1932 dm	56	"	37 16 10.603 - 77 04 38.906 -	326.9 1522.8 988.6 519.8			Fort Powhatan Light 1938
Plotted	318						

1 FT. = 3048006 METER
COMPUTED BY: D. Reed

DATE 26 March 53

CHECKED BY: R. L. Sturgeon

DATE 26 March 53

M-2388-12

Photogrammetric Plot Report:

21. Area Covered:

This report is concerned with Survey T-8322 only, and covers the radial line plot for a $7\frac{1}{2}$ -minute quadrangle in the vicinity of Charles City, Virginia on the James River Southeast of Richmond. It junctions with T-8321 to the West and T-8335-6 to the North by means of common photo points in the junction zone.

The radial line plot was laid at 1:20,000 scale using metal mounted nine-lens photographs and extends a considerable distance beyond the quadrangle limits to include a perimeter of well spaced horizontal control.

The limits of the quadrangle carry to the North and South of the James River, which traverses the manuscript in an E W direction.

22. Method:

Vinylite hand templets were made (using master templet No. 21682 to correct for printing errors) for 14 nine-lens photographs which cover the area.

The base grid used in the plot is in four sections which are numbered and shown on the accompanying layout sketch. The base grid is of dyrite, which holds scale well, and is ruled in intervals of 10,000 feet X and Y. Computations for the horizontal control used in the plot were computed for the Lambert grid and plotted by the conventional beam compass and bar method. Eight USC&GS triangulation stations were plotted for use within the main quadrangle, and the balance of 19 USC&GS triangulation stations were plotted for use outside the quadrangle limits. Many more stations were recovered during field inspection than were used in the plot. A selection was made since there is so much control in the area, especially along the James River. Only those most readily identifiable and properly distributed for maximum strength in the plot were selected to control the plot. Remarks relating to the tolerances maintained in holding to the control are listed under heading 26 "Identification Data" with this report.

All points were pricked and checked under the large prism stereoscope. A color system to show the magnitude and distribution of photo points was used on these photographs. Red Craftint No. 111 ink was used for all secondary pass points, and blue No. 111 was used for all

photo points of doubtful pricking accuracy (wing points, water azimuths, tree overhang, etc.). White Craftint No. 255 was reserved for all horizontal and vertical control, principal points, and azimuth lines. The templates were drafted with red Craftint No. 111 for all photo points of reliable accuracy (both control and secondaries) and blue No. 111 was used for all photo points of doubtful pricking accuracy (all those with blue circles in photo preparation). It can be seen that the laying of the plot was expedited by this method of preparation. Although nearly optimum conditions are inherent to this plot the value of the above method is shown by the fact that only 10 hours were needed to lay it down, exclusive of pricking and inking the circles.

23. Adequacy of Control:

USC&GS triangulation stations were adequately distributed and recovered for use in this plot with the exception of Cypress, 1934, for which no substitute point was furnished. An attempt was made to prick the station direct from measured distances furnished by field inspection, but the station could not be held closer than 0.3 mm. Other stations in the vicinity were held and the plot is considered good within the allowable limits of accuracy.

Level lines were run throughout the quadrangle and vertical control is considered adequate and well distributed with the tie to datum at the James River and numerous USC&GS bench marks in the area.

24. Supplemental data:

None.

25. Photography:

Twelve nine-lens photographs of the 22,000 series were flown March 30, 1948 near noon at a time in the year when hardwood foliage is off. Good stereoscopic models result in those areas and in pine stands where not too dense. However, two nine-lens photographs (Nos. 18782 - 3) flown on Dec. 14, 1946 had to be used in the SW part of the plot and are not of good quality. The surface is badly checked and has faded but is considered adequate for the small area for which they will be used for detailing and contouring. No bad tilts were observed and the

principal points of the respective photographs were used as origins for radial lines and are pricked in the base grid. The photographs are considered better than average as evidenced by the relative ease in which the plot was laid down and adjusted to control and by the estimate that better than 50% of the chambers did not need a master templet to increase their accuracy in position.

Submitted by: Roscoe J. French
Roscoe J. French
Photogrammetrist

Approved by: L. C. Lande
L. C. Lande, Chief,
Graphic Compilation Section

Date: June 21, 1949

26 Identification Data

Station	Name	Recovery Photo	Recovery Date	Pricking Data Where Found	Remarks	Accuracy Tolerance	Remarks
T-8322	Charles 1932	7545-6 / 13610	8-20-42	Book 5	Sketch	Held	Sub.Sta. "Hen"
	So. Gable, House on Bluff, 1938	7532	8-12-42	Book 4	No sketch	Held	---
	Sturgeon Pt. Square / Brick Stack, 1938	7545	7-29-42	Book 4	No sketch	Held	---
	Upper Brandon Farmhouse on Wharf, NW Gable 1938	7532	7-29-42	Book 4	No sketch	Held	---
	Fort Powhatan Light, 1938	7531	7-30-42	Book 4	Sketch	Held	Sub.Sta. "Hat"
	Elevated W.T. No. 2, 1938 / Elevated W.T. No. 1, 1938	7546 / 7547	8-12-42 / 8-12-42	Book 4 / Book 4	No sketch / No sketch	Held / Held)Not identifiable)on all photos.
T-8323	J.C.Q. (U.S.E.) 1938	7487	8-7-42	Book 4	Sketch	Held	Sub.Sta. "Break"
	Daniels, 1938	7471	7-28-42	Book 4	Sketch	Held	Sub.Sta. "She"
	Walker, 1932	7536	9-4-42	Book 5	Sketch	Held	Sub. Sta. "Lev"
	Brandon Wharf Light, 1938		7-28-42	Book 4	No sketch	Held	---
T-8334	Cypress, 1934	7811	2-9-43	Card	Sketch	0.3 mm.	Fell E of station
	Palmer Grey, 1934	12986	6-20-45	Card	Sketch	Held	2 cuts

Station	Name	Recovery		Pricking Data		Accuracy		Remarks
		Photo	Date	Where Found	Remarks	Tolerance		
T-8334	Reeves, 1932	7643-44	8-20-42	Book 5	Sketch	Held		Sub-Sta.
	Samaria, 1932	13031	4-13-44	Card	Sketch	Held		Sub-Sta.
	Westover Dock, Flag on Pile, 1942	7530	8-12-42	Book 4	No sketch	Held		---
	Coggins Pt. Black, W.T., 1942	7489	8-10-42	Book 4	No sketch	Held		---
	Wartham, 1932	13034	4-10-44	Card	Sketch	Held		Sub-Sta.
	✓ Boiler of Wreck, 1938.	7471 ✓	7-24-42	Book 4	Sketch	Held		---
	✓ Brandon Wreck Lt., 1946	7485 ✓	7-28-42	Book 4	No sketch	Held		---
	✓ Bachelor Pt. Lt., 1938	13013 ✓	May 1944	Card	Sketch	Held		Sub-Sta. 2 cuts
	✓ Claremont, 1932	7472	7-23-42	Book 4	No sketch	Held		2 cuts
	East Gable, Dancing Pavillion, 1938	7473 ✓	7-23-42	Book 4	No sketch	Held		2 cuts
	✓ Dancing Point, Front Range Light, 1938	7491	8-6-42	Book 4	Sketch	Held		Sub-Sta. "Vine" 2 cuts
	Irving, 1932							

MAP T-8321

PROJECT NO. 289-W-1

SCALE OF MAP 1:20,000

SCALE FACTOR 1.00

STATION	GP page Desc. page SOURCE OF INFORMATION (INDEX) * Stations used in radial plot	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE	Lambert Grid		DATUM CORRECTION	Polyconic N.A. 1927-DATUM		Lambert Grid	
				DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	(BACK)		FROM GRID OR PROJECTION LINE IN METERS	(BACK)	FORWARD	(BACK)
* S & W of T-8321	P 27		37 13 28.720	2,398 384.114			885.4	964.2		
* Wartham, 1932	No. 327-6	NAD1927	77 07 54.123	327 395.18			1334.3	111.9		
* Wartham, 1932	---	"	37 13 24.88	2,398 157.11			767.0	1082.6	2186.4	561.6
Sub. Sta.			77 07 57.00	327 003.79			1405.2	71.0	2134.8	913.2
* Westover Dock	p. 524	"	37 18 34.513	2,393 145.59			1064.0	785.7	958.9	2089.2
Flag on pile, 1942	No. 327 p. 2-23		77 08 53.428	358 249.75			1315.7	161.8	2574.5	533.5
* Coggins Pt.	p. 524	"	37 17 45.824	2,387 681.24			1412.7	437.0	2341.2	706.8
Black W.T., 1942			77 10 01.934	353 247.34			17.6	1430.2	989.8	2058.2
* Bailey Creek	p. 526	"	37 18 23.843	2,365 456.55			735.0	1114.6	1663.5	1385.2
Lt., 1938	No. 327-11		77 14 36.377	356 787.97			895.8	581.7	2069.4	979.3
Irving, 1932	p. 27	"	37 15 40.314	2,370 066.85			1242.8	606.9	---	---
	No. 327-9		77 13 42.065	340 309.60			1036.5	1412.0		
* Irving, 1932	---	"	37 15 40.843	2,369 998.25			1258.5	591.2	3047.17	0.53
Sub. Sta. "Vine"			77 13 42.905	340 360.15			1057.4	421.1	109.77	2938.23
* Jordan Pt. Front	p. 525	"	37 18 30.68	2,380 758.58			945.7	904.0	231.2	2816.8
Range Lt., 1938	No. 327-10		77 13 26.84	357 687.15			660.9	816.6	2343.0	705.1
* Jordan Pt. Rear	p. 525		37 18 46.402	2,371 156.41			1430.5	419.2	352.5	2696.1
Range Lt. 1942 d. No. 327-10			77 13 25.438	359 146.17			626.4	851.1	2788.4	260.3

1 FT. = 3048006 METER

COMPUTED BY: G.B. Willey

DATE Previous plots 1944-7

CHECKED BY: R.J. French

DATE April 12, 1949

M. 2388-12

MAP T- 8322

PROJECT NO. 289 W-1

SCALE OF MAP 1:20,000

SCALE FACTOR

STATION	GP page Description of INFORMATION	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR χ -COORDINATE	Lambert Grid DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM CORRECTION	Polyconic N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	Lambert FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
* Stations Used in Radial Plot				FORWARD (BACK)		FORWARD (BACK)	FORWARD (BACK)
Charles, 1932	P. 27 No. 327 p. 6	NA 1927	37 20 21.087 77 03 21.665	2,419 780.16 369 123.86		650.1 1199.6 533.3 943.7	---
* Charles, 1932		"	37 20 20.867 77 03 21.864	2,419 764.43 369 401.37		643.3 1206.4 538.2 938.8	2976.2 71.8 2865.5 182.5
* South Gable 1938	p. 323 No. 327	"	37 19 05.617 77 05 47.732	2,408 099.19 361 614.05		173.2 1676.5 1175.3 302.1	2468.6 579.4 492.0 2556.0
House on Bluff,	p. 322 No. 327		37 18 26.266 77 00 20.958	2,434 555.36 358 039.82		809.7 1040.0 516.1 961.4	1388.5 1659.5 2450.5 597.5
* Sturgeon Pt. Sq.	p. 323	"	37 17 18.713 77 02 04.604	2,426 288.85 351 077.35		576.9 1272.8 113.4 1364.9	1916.8 1131.2 328.4 2719.6
Brick Stack, 1938	p. 323 No. 327-4		37 16 11.060 77 04 36.241	2,414 139.61 344 048.53		344.0 1508.7 892.9 585.4	1261.8 1786.2 1234.0 1814.0
* Upper Brandon Farmhouse on Wharf	323	"	Sub. Station "Hat" was plotted graphically 38.2 meters on azimuth with NW Gable, Upper Brandon Farm House on Wharf, 1938.				
Fort Powhatan Light, 1938 d	p. 323 No. 327-6	"	37 19 10.667 77 06 29.024	2,404 756.51 362 075.35		328.8 1520.9 704.6 762.7	1449.8 1598.2 632.6 2415.4
* Elevated Water Tank, No. 2, 1938 d.	p. 323 No. 327-7	"	37 19 32.25 77 07 13.00	2,401 173. -- 364 206. --		994.2 855.5 320.1 1157.1	357.6 2690.5 1282.2 1766.0
* Elevated Water Tank, No. 1, 1938 d	p. 320 No. 327-7	"	37 17 33.637 77 04 42.148	2,413 536.44 352 391.88		1037.0 812.7 1038.1 439.8	---
JCQ USED, 1938			37 17 33.08 77 04 43.02	2,413 466.83 352 334.49		1019.80 828.8 1059.7 448.2	1056.7 1991.3 711.6 2336.5
* JCQ USED, 1938 Sub. Sta. "Break"	"						

1 FT. = 3048006 METER

COMPUTED BY: G.B. Willey

DATE Previous plots 1944-7

CHECKED BY: R.J. French

DATE April 12, 1949

M-2388-12

MAP T-8323

PROJECT NO. 289 W-1

SCALE OF MAP 1:20,000

SCALE FACTOR 1.00

STATION	GP page Desc. page SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE	Lambert Grid DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		Lambert Grid FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
Daniels, 1938 d.	p. 317 No. 327-2	NA 1927	37 16 18.102 76 59 39.041	2,438 148.13 345 133.31			558.0 1291.7 961.9 516.4			
Daniels, 1938 * Sub.Sta. "Sbe"	---	"	37 16 18.113 76 59 37.19	2,438 297.21 345 168.86			568.17 1281.5 916.22 562.1		2529.0 519.1 1575.5 1472.5	
Walker, 1932 * Walker, 1932 Sub.Sta. "Lev"	p. 27 No. 327 p. 1	"	37 19 59.355 76 53 56.152	2,465 180.04 367 962.78			1829.8 19.9 1382.3 94.8			
Walker, 1932 Sub.Sta. "Able"	---	"	37 19 58.618 76 53 56.344	2,465 464.34 367 888.30			1807.1 42.6 1387.1 90.0		1665.5 1382.5 2404.3 643.7	
* Brandon Wharf Light, 1938 d.	p. 323 No. 327-2	"	37 19 59.73 76 53 55.86	2,465 502.96 368 001.10			1841.5 8.2 1375.1 102.0		1677.3 1370.7 2438.7 609.3	
* Bachelor Pt. Lt. 1938 d.	p. 322 No. 327-3		37 15 24.577 76 59 17.255	2,439. 995.53 339 748.87			757.7 1092.0 425.2 1053.4		3046.7 1.4 2971.5 76.5	
* Boiler of Wreck Lt. (Brandon Wreck Lt.)	p. 321 No. 329-2	"	37 17 56.929 76 59 24.762	2,439 142.29 355. 145.10			1755.0 94.7 609.0 867.8		2786.6 261.4 1568.3 1479.7	
Claremont, 1932 d.m.	27 No. 327-1		37 14 48.113 76 58 46.951	2,442 504.51 336 100.89			1483.2 366.5 1157.2 321.6		763.4 2284.6 1859.6 1188.4	
Claremont, 1932 * Sub. Sta.	---	"	37 11 58.812 76 59 43.750	2,438 185.47 318 907.24			1813.0 36.6 1078.9 400.8			
Dancing Pavillion, * East Gable, 1938	p. 321 No. 326-18	"	37 12 01.07 76 59 37.96	2,438 650.20 319 143.04			32.86 1816.8 936.1 543.6		2636.6 411.4 2786.8 261.2	
* Dancing Point Shoal Channel Front Range Lt. 1938	p. 312 No. 326-17	"	37 13 51.850 76 57 15.949	2,449 954.57 330 530.95			1598.4 251.3 393.2 1085.8		3034.2 13.8 161.8 2886.2	
			37 12 43.272 76 54 56.770	2,461 325.16 323 782.87			1334.0 515.7 1300.8 79.6		403.9 2644.1 1153.0 1895.0	

1 FT. = 3048008 METER

COMPUTED BY: G. B. Willey

Previous plots 1944-7

CHECKED BY: R. J. French

DATE

DATE April 12, 1949

M-2388-12

MAP T-8333 PROJECT NO. 289-11 SCALE OF MAP 1:20,000 SCALE FACTOR 1.00

STATION	GP page Desc. page SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE		Lambert Grid DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	POLYCONIC N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
			FORWARD	(BACK)	FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
*Cypress, 1934 d.	p. 161 No. 389 p. 2	NA 1927	37 24	17.795	2,445	241.6		548.6	1301.1	1597.6	1450.4
			76 58	01.523	393	768.3		37.5	1438.2	1148.6	1899.4
Palmer Grey, 1934 d.	p. 161 No. 389 p. 2	"	37 25	14.383	2,451	672.44		443.4	1406.3	509.7	2538.3
* Palmer Grey, 1934			76 56	40.642	399	597.46		999.3	476.0	2925.3	122.7
* Palmer Grey, 1934	T-8387	"	37 25	---	2,451	644.77		---	---	501.3	2546.7
Sub. Sta.	D.R.		76 56	---	399	527.76		---	---	2904.1	143.9
T-8336											
Samaria, 1932	p. 56 No. 327 p. 10-39	"	37 25	07.372	2,395	389.11		227.3	1622.4	---	---
			77 08	18.561	398	018.70		456.4	1018.9	---	---
Samaria, 1932	---	"	37 25	06.283	2,395	312.35		193.7	1656.02	1619.2	1428.8
* Sub. Sta.			77 08	19.532	397	907.44		480.3	995.1	2410.2	637.9
Reeves, 1932	p. 27 No. 327 p. 9-21	"	37 22	46.861	2,387	387.88		1444.6	405.1	---	---
			77 10	00.243	383	692.10		6.0	1470.2	---	---
* Reeves, 1932	---	"	37 22	47.16	2,387	428.85		1453.97	395.72	2264.3	783.7
Sub. Sta.			77 09	59.73	383	722.92		1459.63	6.56	1134.7	1913.2
* Stations used in the radiat plot.											

COMPILATION REPORT

31. Delineation:

This quad was delineated on the Reading Plotters, model B doing all but one model which was done by model A as shown on page 2 of this report.

Photo coverage was complete and field inspection was complete; neither were very recent. Inspection was made in 1945 on 1942 photos, and instrument photography was taken in 1948, except for one model in the SW corner where 1946 photos had to be used.

The inspection was used only as a guide during delineation, more recent features being shown as they appeared in the newer instrument photos. The entire area of the quad has been mapped leaving no gaps.

32. Control:

Horizontal control was considered adequate for the control of the radial plot which was laid exclusively for this quad. Refer to the Radial Plot Report included in this report.

Vertical control was not entirely satisfactory, possibly because of hurried and poor methods of field work done during war time stress. The spacing of level lines was quite adequate with lines run along most of the roads in the area, with spur lines extended into inaccessible areas. But occasional elevations, or even a whole line of elevations, 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 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 elevations and continue with what appeared to be the reliable datum.

33. Supplemental Data:

Two Shoreline Surveys were made in the area in ¹⁹⁴³1940 at a scale of 1:10,000, T-8083 covering the north half and T-8084 covering the south half of the quad being reported. 20,000 scale film positives were made for comparison with the topo compilation. Several differences were noted but no changes were made because the shoreline surveys were considered to be out-of-date by comparison.

See Review Report

34. Contours and Drainage:

Instrument photography was suitable for contouring purposes and no areas of questionable contours remain. Vision of the ground was good; most of the photos were exposed when the leaves were off the trees, and coniferous trees were not too plentiful.

35. Shoreline and Alongshore Details:

Field inspection was used as a guide during delineation, but was out-of-date at the time. Close attention to shoreline details will be required during field edit. Note that trees growing in the river are symbolized and labeled.

36. Offshore Details: Not applicable.

37. Landmarks and Aids: None recommended. *See Chart Letter 270(53) Copies attached.*

38. Control for Future Surveys: None.

39. Junctions:

All junctions are in agreement except to the south where no contemporary quad exists. This map is bounded on the north by T-8335, on the east by T-8323, and T-8321 is west. A reasonable junction was made with the Army "Savage" Quad to the south considering the lapse of time.

40. Horizontal and Vertical Accuracy:

This map is believed to meet standards in both respects. The scale is 20,000 and the contour interval is 20ft.
See Review Report

46. Comparison with Existing Maps:

USGS Quad Map, "CHARLES CITY, VA", 1:62,500, 1918 edition,

47. Comparison with Nautical Charts:

JAMES RIVER-JAMESTOWN ISLAND TO JORDON POINT, No. 530, 1:40,000, September 1940.

48. Geographic Name List: Follows.

49. Notes For the Hydrographer: None.

50. Compilation Office Review: Follows.

Submitted by:

William D. Harris
William D. Harris
Cartographer-Photogrammetric

Approved and Forwarded by:

Louis L. Reed
Louis L. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

GEOGRAPHIC NAMES

Survey No.

T-8322

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	
BETHANY ROAD									1
BRANDON ROAD									
BUCKLAND CREEK									2
BUCKLERS POINT									
CHARLES CITY									3
CHARLES CITY COUNTY									
COURTHOUSE CREEK									4
EDLOW									5
ELAM CEMETERY <i>ELAM</i>									6
FLOWERDEW HUNDRED									7
FLOWERDEW HUNDRED CREEK									8
FORT POWHATAN									9
GLEBE CREEK									10
GREENWAY									11
GUNNS RUN									12
JAMES RIVER									13
KENNON MARSH									14
KITTEWAN CREEK									15
MAPSICO CREEK									16
MAPSICO CHURCH									17
MILTON									18
MORRIS CREEK									19
NEW HOPE									20
OLDS POINT									21
PARISH HILL CHURCH									22
PARISH HILL KENNON CREEK									23
PARISH HILL SCHOOL									24
POWHATAN ROAD									25
PRINCE GEORGE COUNTY									26
QUEENS CREEK									27
RIVER ROAD									
RUTHVILLE									
RUTHVILLE ROAD									
STURGEON POINT									
STURGEON POINT ROAD									
TYLER CREEK									
UPPER BRANDON									
UPPER BRANDON ROAD									
WARDS CREEK									
WEYANOKE									
WEYANOKE POINT									
WEYNOKE ROAD									
WINDMILL POINT									
<i>Dunmore</i>									
<i>Seven Mile Reach</i>									
<i>Three Mile Reach</i>									
<i>Sherwood Forest</i>									
<i>(Home of President Tyler)</i>									
<i>Parish Hill Cemetery</i>									
<i>Blanks Tavern</i>									
<i>Elam Church</i>									
<i>Woodburn School</i>									

*Names approved
11-13-53
a.j.w.*

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

Charles City High School

PHOTOGRAMMETRIC OFFICE REVIEW

T- 8322

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 ☒
✓ = checked
γ = non-existent

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. ☒

Reviewer

Supervisor, Review Section or Unit

Louis J. Reed, Chief

Stereoscopic Mapping Section
Photogrammetric Engineer

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.

Complier

Supervisor

43. Remarks:

M-2623-12

FIELD EDIT REPORT
Quadrangle T-8322 (CHARLES CITY)
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.

Shoreline delineation was visually checked from a skiff running close inshore.

Landmarks recommended for charting or deletion were viewed from the water. Landmarks recommended for charting were identified on the photographs, although some of them were previously located by triangulation.

Fixed aids to navigation were located either by triangulation or traverse.

Off shore features not identified on the photographs were located by cuts from triangulation or eccentrics thereof.

All new features delineated on the photographs have been cross referenced to 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, four 9 lens 1:20,000 scale photographs #22282, 22305, 22312 and 22313.

52. ADEQUACY OF COMPILATION -- The map compilation is near adequate and will be complete with the application of the field edit data.

53. MAP ACCURACY -- No horizontal or vertical accuracy tests were required of this map. However, from visual inspection and some general testing the accuracy appears to be well within specifications.

54. RECOMMENDATIONS -- None offered.

55. EXAMINATION OF PROOF COPY -- No one was requested to examine a proof copy of this map.

Two parts of the James River have names that seem to be in wide local use. The names "Three Mile Reach" and "Seven Mile Reach" are shown in their correct positions on the field edit sheet. The name "Seven Mile Reach" might be considered

misleading as that reach of the river is not seven miles in length. However, the two names are being submitted for consideration. *These names were approved by the Geog. Names Board*

Respectfully submitted
27 February 1953,

Elgan T. Jenkins
Elgan T. Jenkins
Cartographic Survey Aid

Approved and Forwarded:

Jack C. Sammons
Jack C. Sammons,
Officer in Charge
Baltimore Photo. Office

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

~~TO BE DELETED~~

Providence Forge, Virginia

27 February, 1953

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

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

Chart Letter 270 (53)

J. C. Sammons

Chief of Party

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE		LONGITUDE		DATUM							
				°	'	D.M. METERS	°		'						
STACK	Virginia	(Sturgeon Point Square) (Brick Stack, 1938) 52(62) ft		37	18	26.266	77	00	20.958 516.1	N.A. 1927	Triang. T-8322	x			530
LIGHT		(Sturgeon Pt. Light, 1938, 1953) Fl.W.-4 sec., Red Tower, White Triangular Day Mark		37	18	25.043 772.0	77	00	24.339 599.4	"	Triang. T-8322	x			530
CHIMNEY		Red Brick Chy., (middle of three) top of red roofed house. 31(65) ft		37	18	26.677 822.4	77	01	27.361 673.8	"	Photo. T-8322	x			530
LIGHT		(MILTON LIGHT, 1938, 1953) Fl.W.-4 sec. Red Tower, White Triang. Daybn		37	18	19.320 595.6	77	01	29.560 728.0	Triang. "	Triang. T-8322	x			530
CABLE		(UPPER BRANDON FARMHOUSE ON WHARF M.W. GABLE, 1938) (19) ft.		37	17	18.713 576.9	77	02	04.604 113.4	"	Triang T-8322	x			530
HOUSE		Wooden Boat House, top, on end of wooden wharf (17) ft.		37	17	32.516 1002.4	77	04	44.740 1102.0	"	Photo. T-8322	x			530
LIGHT		(FORT POWHATAN LIGHT, 1938, 1953) Fl.W.-4 sec., white Tank House		37	16	11.060 341.0	77	04	36.241 892.9	"	Triang. T-8322	x			530
LIGHT		Flowerden Hundred Creek Light Fl. W.-4 sec., Black TR, White Daybn		37	16	34.138 1052.4	77	05	04.936 121.6	"	Traverse T-8322	x			530
TWO STORY HOUSE (WCHY)		FOUR STORY WHITE HOUSE ON BLUFF, CHY, 1938) Red Brick Chy. near W. end of house on-Olds Pt. 20(42) ft.		37	19	12.111 382.7	77	04	42.048 1035.3	"	Triang. T-8322	x			530
TANK (ELEV)		(ELEVATED WATER TANK NO. 2, 1938) White Wooden W.T. on Skeleton Steel Frame. 60(123) ft		37	19	10.667 328.8	77	06	29.024 714.6	"	Triang. T-8322	x			530
BARN (S. GAB)		South Gable of wooden barn, oppo- site Windmill Point, 35(77) ft		37	19	05.617 173.2	77	05	47.732 1175.3	"	Triang. T-8322	x			530

**DO NOT EXCHANGE
TO BE DELETED**

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Providence Forge, Virginia

27 February 1953

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

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

J. C. Sammons															Chief of Party.											
STATE		VIRGINIA		CHARTING NAME		DESCRIPTION		SIGNAL NAME		POSITION					METHOD OF LOCATION AND SURVEY No.		DATE OF LOCATION		HARBOR CHART		INSHORE CHART		OFFSHORE CHART		CHARTS AFFECTED	
										LATITUDE		LONGITUDE			DATUM											
										° ' "		° ' "			D.P. METERS											
										° ' "		° ' "			D.P. METERS											
SILLO		Concrete Silo (southerly of two) among group of farm bldgs. on Weyanoke Point.								37 17 30		77 03 48			N.A. 1927		Unknown T-8322		Unknown		X				530	

Review Report T-8322
Topographic Map
November 24, 1953

62. Comparison with Registered Topographic Surveys.-

T-1391b	1:20,000	1875
H-3202	"	1910
T-8083	1:10,000	1943
T-8084	"	1943

This map supersedes these surveys for interior detail. The shoreline on T-8083 and T-8084 is shown in greater detail because of the scale difference and should be used for nautical charting purposes. The map manuscript should be used for recent cultural changes alongshore and the small sand shoal near Windmill Point.

63. Comparison with Maps of Other Agencies.-

USGS Charles City Quad. 1:62,500 1918
No extensive differences were noted.

64. Comparison with Contemporary Hydrographic Surveys.-

H-7610	1:10,000	1948
H-7611	"	1948

Stumps and snags shown alongshore on the hydrographic surveys are not visible on the photographs.

Several substantial duck blinds shown on the map manuscript are not shown on the hydrographic surveys.

65. Comparison with Nautical Charts.-

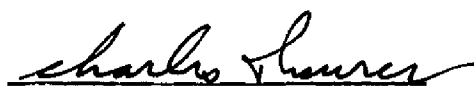
Chart No. 530	1:40,000	1940
---------------	----------	------

Landmark S. Silo and Ruffins Wharf Light should be deleted from the chart. Landmarks Stack, House, and Gable should be added to the chart. See Chart Letter 270 (53).

A small pier should be added near Fort Powhatan Light.

66. Adequacy of Results.-This map complies with the National Standards of Map Accuracy. Contours that were tested in several areas because of discrepancies with the USGS quadrangle, were within the accuracy requirements.

Reviewed by:


C. Theurer

APPROVED

H. C. Lande
Chief, Review Branch
Div. of Photogrammetry

H. W. Swenson
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*See report of T 8319 for statement
on application of hydrography*