

TP-00217

101-8

TP-00217

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey ... **Shoreline**

Job No. **PH-7012**..... Map No. **TP-00217**.....

Classification No. Edition No. **1**.....

Field Edited Map

LOCALITY

State ... **Virginia - Maryland-D.C.**

General Locality ... **Potomac River**

Potomac Palisades

Locality ... **Parkway**.....

19 72 TO 19 74

REGISTRY IN ARCHIVES

DATE

★ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

12285 101-5C FWD MRP 9/77

12289 560 A-BW 2-1-79

gfd

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN. DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>00217</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final (FE)</u> JOB PH. <u>7012</u>
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, Norfolk, VA		LAST PRECEDING MAP EDITION	
OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr.		TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation Jan. 9, 1973		July 18, 1972	
Compilation Feb. 14, 1973			
II. DATUMS			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION		4. GRID(S)	
Polyconic		STATE Virginia	ZONE North
5. SCALE 1:10,000		STATE Maryland	ZONE
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY D.M. Brant			Feb. 1973
METHOD: Stereoplanigraph HANDMARKS AND AIDS BY			
2. CONTROL AND BRIDGE POINTS PLOTTED BY			
METHOD: Coradomat CHECKED BY			
3. STEREOSCOPIIC INSTRUMENT PLANIMETRY BY L.O. Neterer, Jr.			Apr. 1973
COMPILATION CHECKED BY A. Shands/R. White			Apr. 1973
INSTRUMENT: Wild B-8 CONTOURS BY NA			
SCALE: 1:15,000 CHECKED BY NA			
4. MANUSCRIPT DELINEATION PLANIMETRY BY L.B. Foltz			Apr. 1973
CHECKED BY A.L. Shands			May, 1973
METHOD: Smooth Drafted CONTOURS BY NA			
CHECKED BY NA			
HYDRO SUPPORT DATA BY A.L. Shands			Apr. 1973
SCALE: 1:10,000 CHECKED BY A.L. Shands			May, 1973
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY A.L. Shands			May, 1973
6. APPLICATION OF FIELD EDIT DATA BY G.R. Vanderhaven			Jan. 1975
CHECKED BY A.L. Shands			Mar. 1975
7. COMPILATION SECTION REVIEW BY A.L. Shands			Mar. 1975
8. FINAL REVIEW BY A.L. Shands			Nov. 1976
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY A.L. Shands			Mar. 1977
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY J.B. Phillips			Apr. 1977
11. MAP REGISTERED - COASTAL SURVEY SECTION BY R.T. Catcher			May 1977

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E"		TYPES OF PHOTOGRAPHY LEGEND (CI) COLOR INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Eastern	
				MERIDIAN 75th W	
				<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
72E(CI)1629 - 1631	18 APR 72	11:07	1:30,000	3.1 ft. above MLW

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from the color infrared photographs as listed above.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

None delineated

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No Survey	TP-00318	No Survey	No Survey

REMARKS

TP-00217
HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.D. Olson	Sept. 1972
2. HORIZONTAL CONTROL	RECOVERED BY R.D. Olson ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY R.D. Olson	Sept. 1972
3. VERTICAL CONTROL	RECOVERED BY NA ESTABLISHED BY NA PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None LOCATED (Field Methods) BY None IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
72E(CI)1629	ST. PATRICKS EPISCOPAL CHURCH, BELL TOWER, 1956		
72E(CI)1631	MAP (AMS), 1952		

3. PHOTO NUMBERS (Clarification of details)
None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: REPORT NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS
None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

2 Form 152 Control Station Identification

TP-00217

HISTORY OF FIELD OPERATIONS

I. <input type="checkbox"/> FIELD INSPECTION OPERATION		<input checked="" type="checkbox"/> FIELD EDIT OPERATION	
OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		G.W. Jamerson	Nov. 1974
2. HORIZONTAL CONTROL	RECOVERED BY	G.W. Jamerson	Nov. 1974
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
3. VERTICAL CONTROL	RECOVERED BY	NA	
	ESTABLISHED BY	NA	
	PRE-MARKED OR IDENTIFIED BY	NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (<i>Triangulation Stations</i>) BY	None	
	LOCATED (<i>Field Methods</i>) BY	None	
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION			
TYPE OF INVESTIGATION			
<input type="checkbox"/> COMPLETE			
<input type="checkbox"/> SPECIFIC NAMES ONLY			
<input checked="" type="checkbox"/> NO INVESTIGATION			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	G.W. Jamerson	Nov. 1974
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	
II. SOURCE DATA			
1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (<i>Clarification of details</i>)			
72E(C1) 1629			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
None			
8. OTHER FIELD RECORDS (<i>Sketch books, etc. DO NOT list data submitted to the Geodesy Division</i>)			
1 Field Edit Report			
1 Field Edit Ozalid			
6 Form 526 - Recovery Note			

NOAA FORM 76-36D (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION TP-00217 RECORD OF SURVEY USE

I. MANUSCRIPT COPIES			DATE MANUSCRIPT FORWARDED	
COMPILATION STAGES			MARINE CHARTS	HYDRO SUPPORT
DATA COMPILED	DATE	REMARKS		
Compilation complete, pending field edit.	April, 73	Class III Manuscript	6/8/73	6/6/73
Field edit applied Compilation complete	Jan. 75	Class I Manuscript	4/18/75	
Final Review	Nov. 76			

II. LANDMARKS AND AIDS TO NAVIGATION None

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
 3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
 2. CONTROL STATION IDENTIFICATION CARDS; FORM NOS 567 SUBMITTED BY FIELD PARTIES.
 3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
 4. DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: May 1977

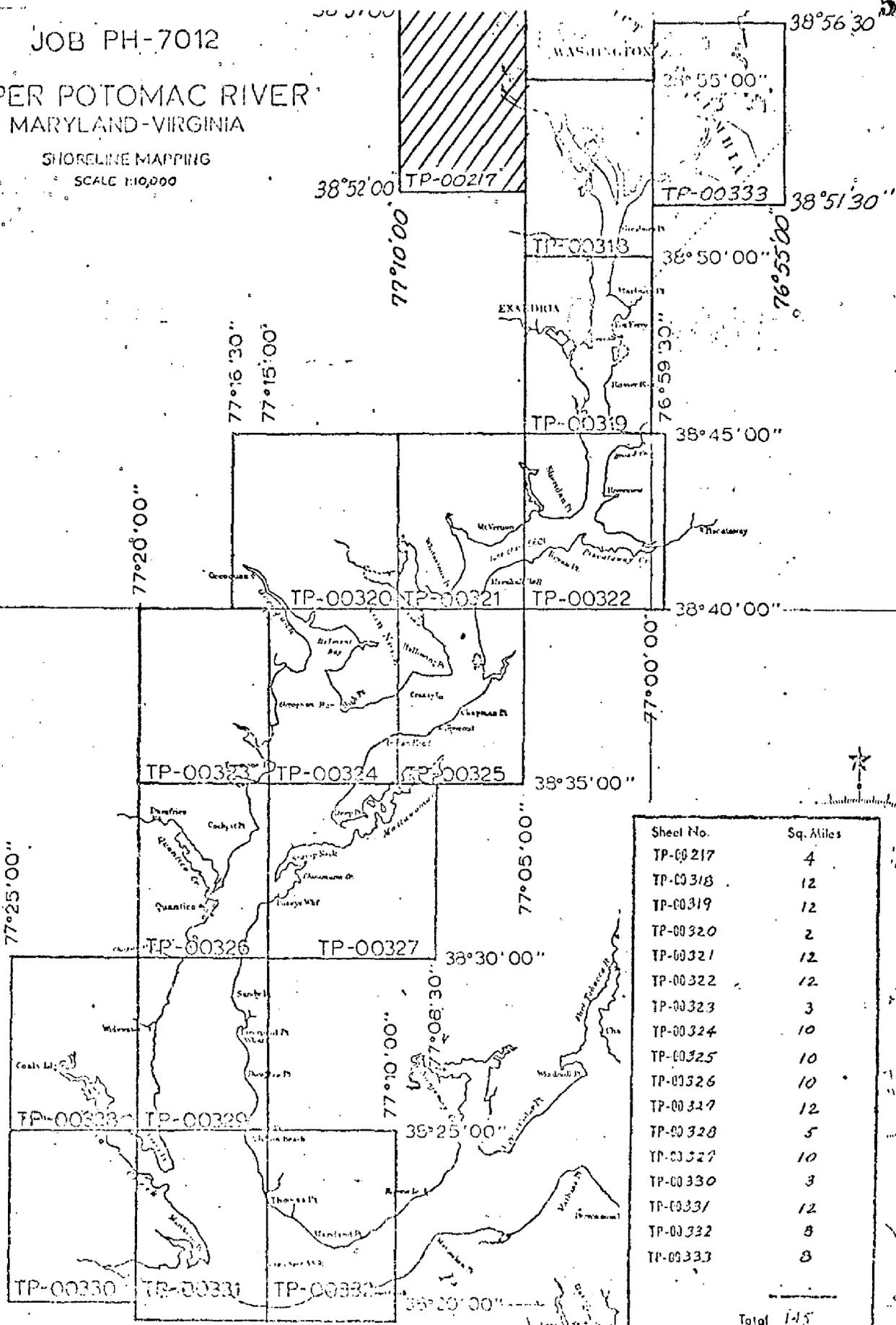
IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY				
	TP - _____ (2)	PH - _____	<input type="checkbox"/> REVISED	<input type="checkbox"/> RESURVEY			
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS				
			<input type="checkbox"/> II.	<input type="checkbox"/> III.	<input type="checkbox"/> IV.	<input type="checkbox"/> V.	<input type="checkbox"/> FINAL
THIRD EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY				
	TP - _____ (3)	PH - _____	<input type="checkbox"/> REVISED	<input type="checkbox"/> RESURVEY			
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS				
			<input type="checkbox"/> II.	<input type="checkbox"/> III.	<input type="checkbox"/> IV.	<input type="checkbox"/> V.	<input type="checkbox"/> FINAL
FOURTH EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY				
	TP - _____ (4)	PH - _____	<input type="checkbox"/> REVISED	<input type="checkbox"/> RESURVEY			
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS				
			<input type="checkbox"/> II.	<input type="checkbox"/> III.	<input type="checkbox"/> IV.	<input type="checkbox"/> V.	<input type="checkbox"/> FINAL

JOB PH-7012

UPPER POTOMAC RIVER
MARYLAND-VIRGINIA

SHORELINE MAPPING
SCALE 1:10,000



Sheet No.	Sq. Miles
TP-00217	4
TP-00318	12
TP-00319	12
TP-00320	2
TP-00321	12
TP-00322	12
TP-00323	3
TP-00324	10
TP-00325	10
TP-00326	10
TP-00327	12
TP-00328	5
TP-00329	10
TP-00330	3
TP-00331	12
TP-00332	8
TP-00333	8
Total	145

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS

TP-00318 thru TP-00322, TP-00217 and TP-00333

Project PH-7012 covers the upper Potomac River from Maryland Point north to Latitude 38° 57' 00" at Little Falls Dam. All tributaries emptying into the Potomac along this route were mapped to their headwaters.

There are seventeen 1:10,000 scale maps in this project, the purpose of which is to provide contemporary shoreline in support of hydrographic operations conducted in the area from 1972 to 1974. To better coordinate the shoreline compilation with the scheduling of hydrographic operations, compilation was divided into two parts. The southern half, consisting of ten manuscripts TP-00323 through TP-00332, was compiled in the Rockville office in 1972. Field edit was applied and Final Review was performed on these manuscripts by employees of the Rockville office. Reference should be made to "Job Completion Report PH-7012 (Southern Part)" by J. B. Phillips for information concerning these manuscripts.

Compilation of Manuscripts TP-00217, TP-00318 through TP-00322 and TP-00333 comprising the northern portion of the project was accomplished at the Atlantic Marine Center in March and April of 1973. The Wild B-8 stereoplotter was used. Tandem flights of color infrared and black and white infrared photography flown in April, 1972, at 1:30,000 scale were provided. The color infrared photography was used for both compilation and hydro support purposes. They were the only set of photographs sent to the field. The black and white infrared photography was not used during any phase of compilation or field edit.

The stage of tide at the time of photography was one foot above the mean high water plain as determined from the hourly heights supplied by the Tides Branch (see attached). This circumstance may have resulted in a slight displacement of the shoreline in marsh and swamp areas. It is not felt, however, that this would materially effect the overall shoreline delineation. Cloudy water conditions coupled with the high tide level resulted in those features (rocks, wrecks, shoals, etc) in the river not being visible on the photographs. As a result, many of the features in the water picked up by the hydrographer could not be verified photogrammetricly.

Field work prior to compilation was limited to the recovery and identification of horizontal control necessary for bridging. This was done in August thru September, 1972.

Field edit was accomplished in July, 1973, November, 1974 and February, 1975. It was applied at AMC at various times between November, 1973 and April, 1975.

Final review of TP-00217, TP-00318 through TP-00322 and TP-00333 was done at AMC in January, 1977.

The original stabilene base manuscripts, each 1:10,000 scale were forwarded to the Rockville office for reproduction of registration copies.

NATIONAL OCEAN SURVEY (NCAA)
TIDES, HOURLY HEIGHTS (FEET)

WASHINGTON D C		APR 1972 TM 75.00W										
		DAY OF MONTH										
HOUR	12	13	14	15	16	17	18	19	20	21	22	
0	4.20	5.16	5.61	6.15	6.87	8.05	7.88	8.11	7.13	4.85	7.18	
1	3.98	4.87	5.22	5.62	6.28	7.44	7.39	7.80	7.27	5.80	7.95	
2	4.19	4.85	4.96	5.24	5.74	6.88	6.83	7.28	7.06	6.37	8.17	
3	5.22	5.55	5.01	5.01	5.33	6.39	6.30	6.73	6.62	6.64	8.00	
4	6.41	6.85	6.06	5.30	5.06	6.04	5.89	6.23	6.06	6.60	7.66	
5	7.15	7.94	7.43	6.57	5.16	5.75	5.57	5.85	5.59	6.22	7.24	
6	7.45	8.32	8.26	7.79	6.25	5.64	5.41	5.56	5.18	5.66	6.79	
7	7.41	8.44	8.62	8.44	7.52	6.35	5.72	5.44	4.90	5.11	6.37	
8	7.01	8.18	8.59	8.71	8.25	7.36	6.87	5.67	4.76	4.72	6.01	
9	6.41	7.53	8.18	8.61	8.57	7.98	7.94	6.50	4.83	4.54	5.72	
10	5.76	6.86	7.51	8.15	8.49	8.22	8.48	7.42	5.45	4.76	5.52	
11	5.19	6.22	6.78	7.50	8.07	7.95	<u>8.66</u>	7.97	6.38	5.65	5.68	
12	4.73	5.76	6.13	6.86	7.46	7.47	8.51	8.16	7.01	6.74	6.50	
13	4.45	5.47	5.64	6.30	6.82	6.89	8.06	7.99	7.22	7.38	7.53	
14	4.47	5.19	5.25	5.82	6.27	6.35	7.49	7.55	7.24	7.65	8.23	
15	5.25	5.18	4.94	5.51	5.90	5.88	6.92	7.01	6.85	7.67	8.56	
16	6.53	5.94	4.84	5.21	5.60	5.51	6.46	6.46	6.19	7.43	8.57	
17	7.43	7.10	5.61	5.17	5.40	5.25	6.11	6.02	5.64	7.05	8.22	
18	7.91	7.85	6.89	5.97	5.74	5.12	5.86	5.67	5.13	6.59	7.66	
19	8.01	8.15	7.78	7.20	6.97	5.41	5.70	5.41	4.70	6.17	7.09	
20	7.68	8.08	8.12	7.98	8.11	6.43	5.89	5.18	4.28	5.83	6.62	
21	7.01	7.58	8.01	8.26	8.55	7.42	6.69	5.18	3.97	5.58	6.25	
22	6.29	6.86	7.53	8.09	8.84	7.96	7.63	5.67	3.79	5.62	5.96	
23	5.65	6.20	6.83	7.57	8.61	8.07	8.10	6.55	3.95	6.21	5.71	

DATUM IS

Subtract 4.26' to refer to MLLW

*8.66
4.40
4.26 above MLLW*

Field work prior to compilation was limited to the recovery and identification of horizontal control necessary for bridging. No report was submitted.

PHOTOCGRAMMETRIC PLOT REPORT

Job PH-7012

Upper Potomac River, Maryland - Virginia (Part 2)

February, 1973

21. Area Covered

This report covers an area of the Potomac and Anacostia Rivers south from latitude $38^{\circ}57'00''$ to $38^{\circ}40'00''$ where it joins Part 1 of this project. The job consists of seven (7) 1:10,000 scale sheets (TP-00318 thru TP-00322, TP-00217, and TP-00333).

22. Method

Six (6) strips of photographs (strip 1 and strips 3 thru 6) were bridged using the C-8 Stereoplaingraph and adjusted on the IBM 1620. Strip 2 was bridged on the S.T.K. and adjusted by analytical aerotriangulation methods. All strips were adjusted to field-identified horizontal control stations with the exception of strips 3 and 5, where office-identified control stations were used to supplement the field-identified control. Ties were made between all strips. The sketch shows the location of the strips of photography and the horizontal control stations used in bridging. Common image points were located during bridging between the color infrared photography and the black-and-white infrared photography in order to determine a ratio for the enlargements used in compilation.

Data for the seven (7) 1:10,000 scale compilation sheets were plotted by the Coradomat 21 Plotter on the Maryland and Virginia (north zone) coordinate system.

23. Adequacy of Control

All horizontal control used in the adjustment was field identified except for the following stations:

WOODBRIDGE Relay Mast 1957

BELLEVUE D.C. Fire Dept. Training Center Tank 1970

ALEXANDRIA Washington Masonic Nat. Memorial 1934

These office-identified stations were used only because they provided a better balance of control for the adjustment.

In general, the identification of horizontal control stations (sub points) was poor. Also, the mathematical solutions for the sub points were very poor because of small angles involved in computing azimuths. Horizontal control was adequate.

24. Supplemental Data

USGS quadrangles were used to provide vertical control for the strip adjustments.

25. Photography

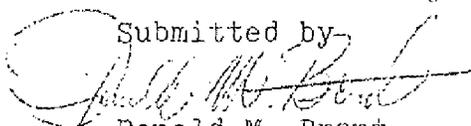
The following RC-8 color infrared photography (E camera) was used for bridging and the black-and-white infrared (K camera) was flown in tandem with the E camera:

1:30,000 scale photography

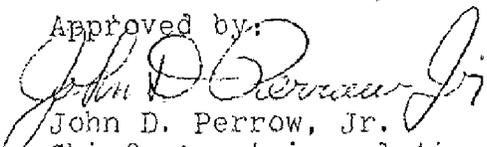
strip 1	72 E(c) 1624R	thru	1631R
	72 K 7254R		7262R
strip 2	72 E(c) 1615R	thru	1621R
	72 K 7245R		7252R
strip 3	72 E(c) 1594R	thru	1601R
	72 K 7225R		7232R
strip 4	72 E(c) 1644R	thru	1649R
	72 K 7275		7279R
strip 5	72 E(c) 1654	thru	1666R
	72 K 7285		7297R
strip 6	72 E(c) 1649R	thru	1655R
	72 K 7280R		7236R

Photography was adequate as to coverage, overlap, and identification.

Submitted by


Donald M. Brant

Approved by:


John D. Perrow, Jr.

Chief, Aerotriangulation Section

JOB PH-7012

KEY TO HORIZONTAL CONTROL
USED FOR BRIDGING

- 1. OCCOQUAN PENAL INST. STANDPIPE 1959
- 2. OX 1959
- 3. WIG 1932
- 4. FERRY POINT 1959
- 5. BRYAN 2 1928
- 6. BEALLE RM 5 1957
- 7. UPPER POTOMAC RIVER LIGHT 77 1959
- 8. FORT 1928
- 9. RIVERVIEW WHARF LIGHT 82 1959
- 10. GUM SPRINGS RAD. STA. WPIK MAST 1969
- 11. QUEEN 2 1959
- 12. UPPER POTOMAC RIVER LIGHT 88 1959
- 13. TEMPLE 1934
- 14. ST. ELIZABETH'S INSANE ASYLUM RED STACK 1934
- 15. SE 134 A 1960
- 16. NE 146 C
- 17. HYATTSVILLE RAD. STA. KGA 361 MAST 1970
- 18. ROGER HEIGHTS STAND PIPE 1952
- 19. GATE 2 1970
- 20. MAP AMS 1952
- 21. INSANE 1912
- 22. ST. PATRICKS EPISCOPAL CHURCH BELL TOWER
- 23. WOODBRIDGE RELAY MAST 1957
- 24. ALEXANDRIA WASHINGTON MASONIC NAT. MEMORIAL 1934
- 25. BELLEVUE D.C. Fire Dept. Training center TANK 1970

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEOETIC DATUM		COORDINATES IN FEET		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY		REMARKS
					TP-00217	N.A. 1927	STATE	ZONE	ϕ	λ	ϕ	λ	
	WASHINGTON, D.C. TV STA.	GP	G-14477		x=	38	56	09.930	306.2	(1544.0)			
	WMAL MAST, 1969	Pg. 9			y=	77	05	32.502	782.8	(662.3)			
	MAP (AMS), 1952	GP	G-14477		x=	38	56	52.495	1618.8	(231.4)			
	ST. PATRICK'S EPISCOPAL	Pg. 1			y=	77	07	18.816	453.1	(991.7)			
	CHURCH, BELL TOWER, 1956	Quad			x=	38	54	42.880	1322.3	(527.7)			
	DC-VA BOUNDARY WITNESS	GP	G-7079		y=	77	05	05.404	130.2	(1315.4)			
	MARK NO. 1, 1946	Pg. 128			x=	38	56	03.160	97.4	(1752.8)			
	DC-VA BOUNDARY WITNESS	GP	G-7079		y=	77	07	12.659	304.9	(1140.3)			
	MARK NO. 2, 1946	Pg. 128			x=	38	55	16.064	495.4	(1354.8)			
	DC-VA BOUNDARY WITNESS	GP	G-7079		y=	77	06	31.302	754.1	(691.3)			
	MARK NO. 3, 1946	Pg. 128			x=	38	54	39.451	1216.5	(633.7)			
	DC-VA BOUNDARY WITNESS	GP	G-7079		y=	77	06	03.794	91.4	(1354.2)			
	MARK NO. 4, 1946	Pg. 128			x=	38	54	10.974	338.4	(1511.8)			
	CAMP (USE), 1925	VA 1 Pg 227			y=	77	05	13.975	336.7	(1109.0)			
		Bridging			x=	38	54	17.222	531.1	(1319.1)			
	EATHAN ALLEN, 1934	GP	G-14477		y=	77	05	29.088	700.9	(744.8)			
		Pg. 6			x=	38	55	33.156	1022.4	(827.8)			
	PHILLIPS RM 4, 1969	GP	G-1447		y=	77	07	00.922	22.2	(1423.1)			
		Pg. 5			x=	38	54	16.455	507.4	(1342.8)			
					y=	77	06	25.653	618.1	(827.6)			

COMPUTED BY	A.C. Rauck, Jr.	DATE	2/20/73
LISTED BY		DATE	
HAND PLOTTING BY		DATE	
COMPUTATION CHECKED BY	C.F. Blood	DATE	2/21/73
LISTING CHECKED BY		DATE	
HAND PLOTTING CHECKED BY		DATE	

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-00217	JOB NO. PH-7012	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETIC DATUM N.A. 1927		ORIGINATING ACTIVITY Coastal Mapping Division AMC - Norfolk, VA		REMARKS
				COORDINATES IN FEET STATE ZONE		GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	Forward Back	
		GP		X=	ϕ 38 54	λ 16.681	514.4	(1335.8)
		G-14477		Y=	λ 77 06	25.563	616.0	(829.7)
		Pg. 15		X=	ϕ 38 55	17.525	540.4	(1309.8)
		GP		Y=	λ 77 07	45.750	1102.1	(343.3)
		G-14477		X=	ϕ			
		Pg. 22		Y=	λ			
				X=	ϕ			
				Y=	λ			
				X=	ϕ			
				Y=	λ			
				X=	ϕ			
				Y=	λ			
				X=	ϕ			
				Y=	λ			
				X=	ϕ			
				Y=	λ			
				X=	ϕ			
				Y=	λ			
				X=	ϕ			
				Y=	λ			

COMPUTED BY A.C. Rauck, Jr.	DATE 2/20/73	COMPUTATION CHECKED BY C.E. Blood	DATE 2/21/73
LISTED BY	DATE	LISTING CHECKED BY	DATE
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

COMPILATION REPORT

TP-00217

31. DELINEATION

Delineation was by the Wild B-8 stereoplotter. Photo coverage was adequate.

32. CONTROL

See Photogrammetric Plot Report, dated February, 1973.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line and alongshore details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

See Form 76-36b, Item #5, of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

A comparison was made with U.S. Geological Survey Quadrangles WASHINGTON WEST, DC-MD-VA, and FALLS CHURCH, VA-MD, each scaled 1:24,000 and dated 1965, photorevised 1971.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart; 101 SC 15th edition, dated December 30, 1972.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

L. B. Foltz for

L.B. Foltz
Cartographic Aid
April, 1973

Approved:

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7012 (Potomac River)

TP-00217

C & O Canal
District of Columbia
Donaldson Run
Gulf Run
High Island
Little Falls
Little Falls Dam
Pimmit Run
Potomac Heights
Potomac River
Snake Island
Spout Run
The Palisades
Virginia
Windy Run

Approved by:

Chas. E. Harrington
Staff Geographer-C51X2
Chas. E. Harrington

FORM C&GS-1002
(9-66)U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

XX TP-00217

1. PROJECTION AND GRIDS ALS	2. TITLE ALS	3. MANUSCRIPT NUMBERS ALS	4. MANUSCRIPT SIZE ALS
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY ALS	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS X X
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES X X	10. PHOTOGRAMMETRIC PLOT REPORT ALS	11. DETAIL POINTS ALS
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE ALS	13. LOW-WATER LINE X X	14. ROCKS, SHOALS, ETC. X X	15. BRIDGES ALS
16. AIDS TO NAVIGATION X X	17. LANDMARKS X X	18. OTHER ALONGSHORE PHYSICAL FEATURES ALS	19. OTHER ALONGSHORE CULTURAL FEATURES ALS
PHYSICAL FEATURES			
20. WATER FEATURES ALS		21. NATURAL GROUND COVER NA	22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES X X
CULTURAL FEATURES			
27. ROADS ALS	28. BUILDINGS ALS	29. RAILROADS ALS	30. OTHER CULTURAL FEATURES X X
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES ALS		34. JUNCTIONS ALS	35. LEGIBILITY OF THE MANUSCRIPT ALS
36. DISCREPANCY OVERLAY ALS	37. DESCRIPTIVE REPORT ALS	38. FIELD INSPECTION PHOTOGRAPHS X X	39. FORMS ALS
40. REVIEWER <i>A.L. Shands</i> A.L. Shands		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> A.C. Rauck, Jr.	
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 <i>A.L. Shands</i> G.R. Vanderhaven		Jan. 1975	SUPERVISOR <i>Albert C. Rauck, Jr.</i> A.C. Rauck, Jr.
Re: A.L. Shands		Mar. 1975	
43. REMARKS <i>A.L. Shands</i>			

FIELD EDIT REPORT

TP-00217

Upper Potomac River
Maryland-Virginia51. Methods

All work was done in accordance with Provisional Photogrammetry Instructions-Field Edit Surveys, current photo instructions, and project instructions.

An inspection of shoreline and alongshore was made, all additions, deletions, or corrections are referenced on the field edit ozalid. All deletions are indicated by green ink while corrections and additions appear in purple ink.

The latest hydrographic survey of the area should be consulted concerning rocky areas.

Field edit was accomplished by boat, truck, and on foot.

52. Adequacy of Compilation

Compilation was adequate for the photography, however the shoreline would have been delineated more realistically had photography been taken at another time. Apparently the spring weather had caused a lot of extra runoff in April, 1972, and the river level north of the Chain Bridge was extremely high. The river downstream of Chain Bridge and north of Three Sisters' Islands was not affected as much as that upstream of the Chain Bridge. This area is delineated adequately, however at lower water more shoreline rocks and rocks extending into the river would have been more evident. Several areas have been indicated on the field edit ozalid as foul with rocks, and with the hydrographer's boatsheet, the map area will be compiled adequately.

It should be noted that all areas delineated as swamp are low, rocky areas as noted on the field edit ozalid. There are no areas of marsh and these areas should be classified as rocky, with trees and grass growing among the rocks. It is the field editor's opinion that these rocks are metamorphic outcroppings in their place of origin, with breccia scattered along the river flood plain.

54. Recommendations

It is recommended that reference be made to the hydrographer's boatsheet concerning rocks in the small boat navigable area covered by this sheet.

56. Geographic Names

No discrepancies were found while editing this sheet.

57. Landmarks and Aids to Navigation

There were no landmarks nor non-floating aids to navigation recommended charted or deleted on this sheet.

Respectfully submitted,

George W. Jamerson
George W. Jamerson
LT. NOAA
Chief, Photo Party 61

REVIEW REPORT TP-00217

SHORELINE

December 23, 1976

61. GENERAL STATEMENT:

See Summary, which is pages 6a and 6b of this Descriptive Report.

A comparison print showing the differences noted in Paragraphs 62, 63, 64, and 65 is submitted with the original of this report.

Few of the rocks currently shown on the chart are positioned on the hydrographer's boatsheet. Only two of the many rocks positioned on the boatsheet could be seen and thus, verified photogrammetrically. The stage of tide at the time of photography was one foot above MHW at Washington, DC as determined from hourly heights furnished by the Tides Branch. This indicates, that flooding conditions probably existed in the upper reaches of the Potomac at the time of photography; rendering those features in the river at or below mean high water level invisible on the infrared photographs. This would also, have an affect on delineation of the mean high water line in marsh and swamp areas.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with Planimetric Maps T-8600 and T-8601, each 1:4,800 scale, dated 1948. This comparison, was made of the Potomac River from approximate Latitude $38^{\circ} 56.2'$ to the eastern limits of the manuscript. No significant differences were noted.

In the area compared, TP-00217 supersedes the above mentioned surveys for nautical chart construction purposes. T-8600 and T-8601 are the latest registered surveys of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangles Falls Church, VA-MD and Washington West, DC-MD-VA, each, 1:24,000 scale, dated 1965. Photorevised in 1971. There were no significant differences noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with Boatsheet H-9488 (AHP-5-7-74) which is the northernmost of the contemporary hydro surveys of the area. Significant differences are shown on the comparison print in purple pencil.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 12285, 1:40,000 scale, 18th edition dated November 8, 1975. Significant differences are noted on the comparison print in red pencil.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the project instructions and meets the Bureau Standards and the National Standards of Map Accuracy.

Submitted by:

A.L. Shands

A.L. Shands
Cartographer

Approved for forwarding:

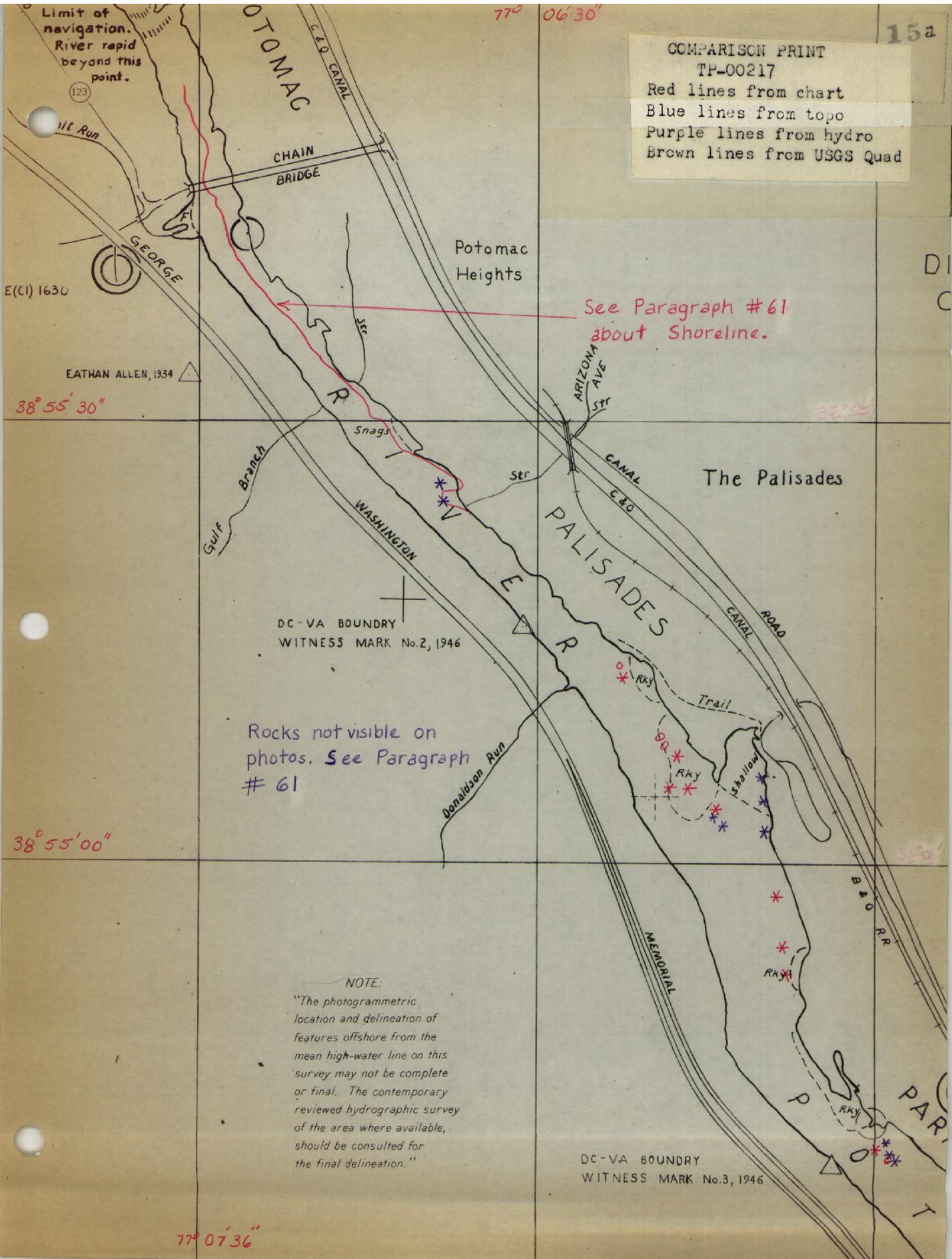
Joseph W. Vonasek
Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

W.K. Raymond
Chief, Photogrammetric Branch

James L. ...
Chief, Coastal Mapping Div.

COMPARISON PRINT
 TP-00217
 Red lines from chart
 Blue lines from topo
 Purple lines from hydro
 Brown lines from USGS Quad



See Paragraph #61
 about Shoreline.

Rocks not visible on
 photos. See Paragraph
 # 61

NOTE:
 "The photogrammetric
 location and delineation of
 features offshore from the
 mean high-water line on this
 survey may not be complete
 or final. The contemporary
 reviewed hydrographic survey
 of the area where available,
 should be consulted for
 the final delineation."

DC-VA BOUNDARY
 WITNESS MARK No.3, 1946

Limit of navigation.
 River rapid beyond this point.
 123
 Mt Run
 GEORGE
 E(C) 1630
 EATHAN ALLEN, 1934

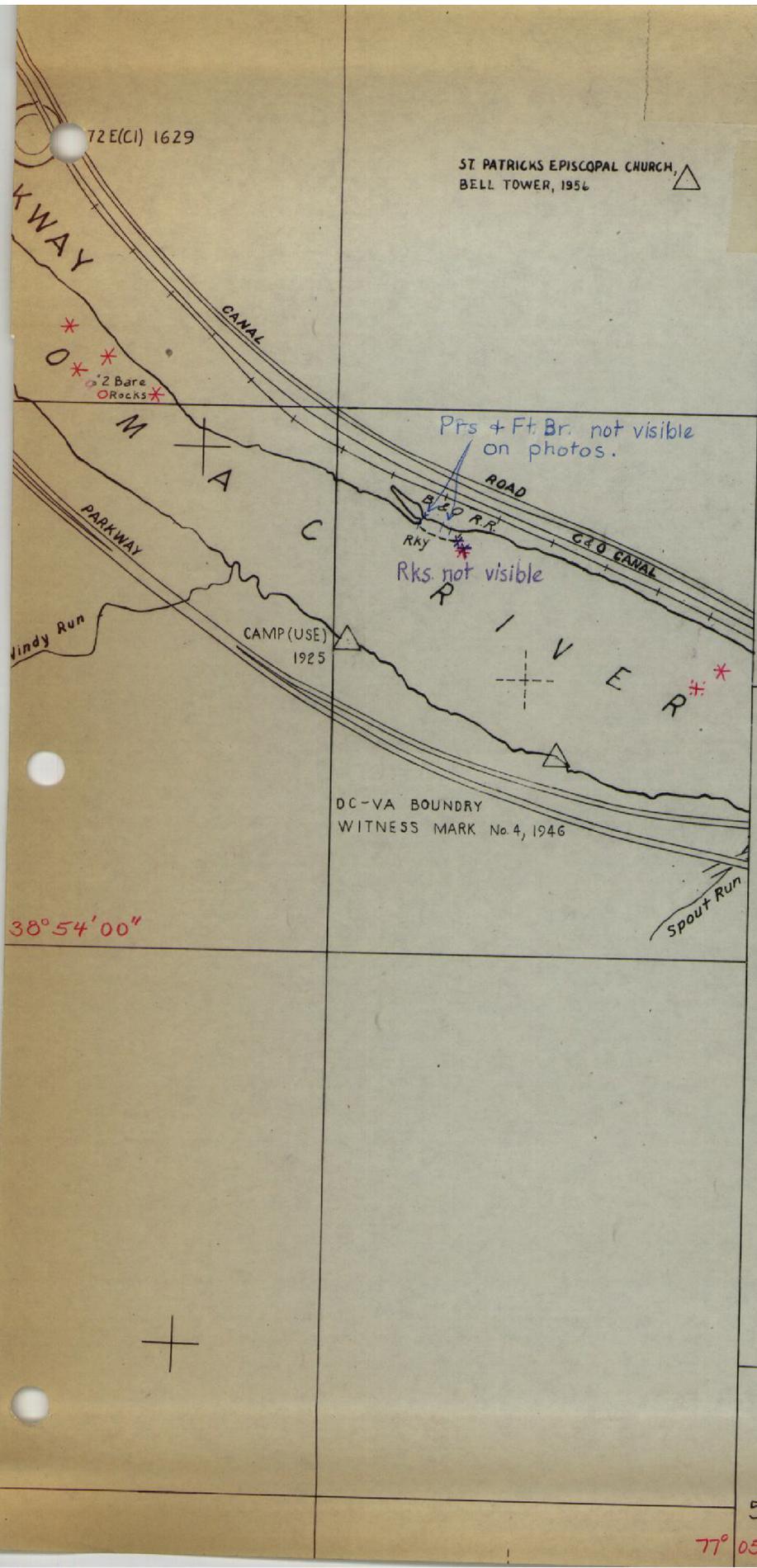
38° 55' 30"

38° 55' 00"

77° 06' 30"

77° 07' 36"

COMPARISON PRINT
TP-00217
Red lines from chart
Blue lines from topo
Purple lines from hydro
Brown lines from USGS Quad



ST PATRICKS EPISCOPAL CHURCH,
BELL TOWER, 1956

72E(CI) 1629

54'30"

Y=455.000FT. VA. N.

Pfs + Ft. Br. not visible
on photos.

Rks not visible

Rks not visible
on photos

Y=390.000FT. MD.

DC-VA BOUNDARY
WITNESS MARK No. 4, 1946

38°54'00"

54'

Y=450.000FT. VA. N.

53'30"

77°05'00"

