

ORIGINAL

TP-00322

TP-00322

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-00322.....
Classification No. Edition No.1.....
Field Edited Map

LOCALITY

StateVirginia - Maryland.....
General LocalityPotomac River.....
LocalityPiscataway Creek.....

19 72 TO 19 74

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.					
DESCRIPTIVE REPORT - DATA RECORD		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </td> <td style="width: 50%;"> SURVEY TP-00322 MAP EDITION NO. (1) MAP CLASS Final F.E. JOB PH-7012 </td> </tr> </table>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP-00322 MAP EDITION NO. (1) MAP CLASS Final F.E. JOB PH-7012		
TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP-00322 MAP EDITION NO. (1) MAP CLASS Final F.E. JOB PH-7012						
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, Norfolk, VA		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"> LAST PRECEDING MAP EDITION </td> </tr> <tr> <td style="width: 50%;"> TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </td> <td style="width: 50%;"> JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__ </td> </tr> </table>		LAST PRECEDING MAP EDITION		TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__
LAST PRECEDING MAP EDITION							
TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__						
OFFICER-IN-CHARGE Jeffrey G. Carlen							
I. INSTRUCTIONS DATED							
1. OFFICE		2. FIELD					
Aerotriangulation Jan. 9, 1973 Compilation Feb. 14, 1973		July 18, 1972					
II. DATUMS							
1. HORIZONTAL:		OTHER (Specify)					
<input checked="" type="checkbox"/> 1927 NORTH AMERICAN							
2. VERTICAL:		OTHER (Specify)					
<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							
3. MAP PROJECTION Polyconic		4. GRID(S)					
STATE Virginia		ZONE North					
5. SCALE 1:10,000		STATE Maryland					
ZONE							
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS		NAME	DATE				
1. AEROTRIANGULATION METHOD: Stereoplanigraph LANDMARKS AND AIDS BY		D.M. Brant	Feb. 1973				
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat PLOTTED BY CHECKED BY		Coradomat					
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:15,000		PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY	L.O. Neterer Jr. F.P. Margiotta N.A. N.A. Mar. 1973 Mar. 1973				
4. MANUSCRIPT DELINEATION METHOD: Smooth drafted SCALE: 1:10,000		PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY HYDRO SUPPORT DATA BY CHECKED BY	C.E. Blood R.R. White N.A. N.A. C.E. Blood R.R. White Apr. 1973 Apr. 1973				
5. OFFICE INSPECTION PRIOR TO FIELD EDIT		R.R. White	Apr. 1973				
6. APPLICATION OF FIELD EDIT DATA		G.R. Vanderhaven	Mar. 1975				
7. COMPILATION SECTION REVIEW		A.L. Shands	Apr. 1975				
8. FINAL REVIEW		A.L. Shands	Apr. 1975				
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		A.L. Shands	Mar. 1977				
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH		J.B. Phillips	Apr. 1977				
11. MAP REGISTERED - COASTAL SURVEY SECTION		R.T. Cater	May 1977				

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00322
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E"		TYPES OF PHOTOGRAPHY LEGEND (CI) COLOR INFRARED (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 75 W	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
72E(CI)1594 - 1596	4/18/72	10:20	1:30,000	2.8 ft. above MLW	
72E(CI)1651(I)-1654	4/18/72	11:44	1:30,000	2.8 ft. above MLW	
72E(CI)1658(I)-1659	4/18/72	11:55	1:30,000	2.8 ft. above MLW	
72E(CI)1660	4/18/72	11:56	1:30,000	2.2 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:

No low water line was delineated since no low water photography was available.

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
TP-00319	No Survey	No Survey	TP-00321

REMARKS

TP-00322
HISTORY OF FIELD OPERATIONSI. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.O. Olsson	Oct. 1972
2. HORIZONTAL CONTROL	RECOVERED BY R.O. Olsson	Oct. 1972
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY R.O. Olsson	Oct. 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 R.O. Olsson	Oct. 1972
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY R.O. Olsson	Oct. 1972
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 None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
		NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
72E(C)1654(I)	BEALE RM5 1957		
72E(C)1660(I)	BRYAN 2 1928		
72E(C)1652(I)	FORT, 1928 ECCENTRIC		
72E(C)1652(I)	UPPER POTOMAC RIVER LIGHT NO. 77 1959		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
72E(C)1652(I)	RIVERVIEW WHARF LIGHT #82		
72E(C)1652(I)	UPPER POTOMAC RIVER LIGHT #77		

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. 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)

CSI Forms 152 for each station listed.

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.D. Black	Oct. 1974
2. HORIZONTAL CONTROL	RECOVERED BY R.D. Black	Oct. 1974
	ESTABLISHED BY R.D. Black	
	PRE-MARKED OR IDENTIFIED BY N.A.	
3. VERTICAL CONTROL	RECOVERED BY N.A.	
	ESTABLISHED BY N.A.	
	PRE-MARKED OR IDENTIFIED BY N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY R.D. Black	Oct. 1974
	LOCATED (Field Methods) BY R.D. Black	Oct. 1974
	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 R.D. Black	Oct. 1974
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
N.A.		N.A.	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)
72E(CI)1653, 1659, 1595 and 15964. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE7. SUPPLEMENTAL MAPS AND PLANS
None8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)
 1 Field Edit Report
 1 Field Edit Ozalid
 1 Film Ozalid containing field edit notes
 6 Forms 76-40 Landmarks and Aids
 10 Forms 526 Recovery Notes

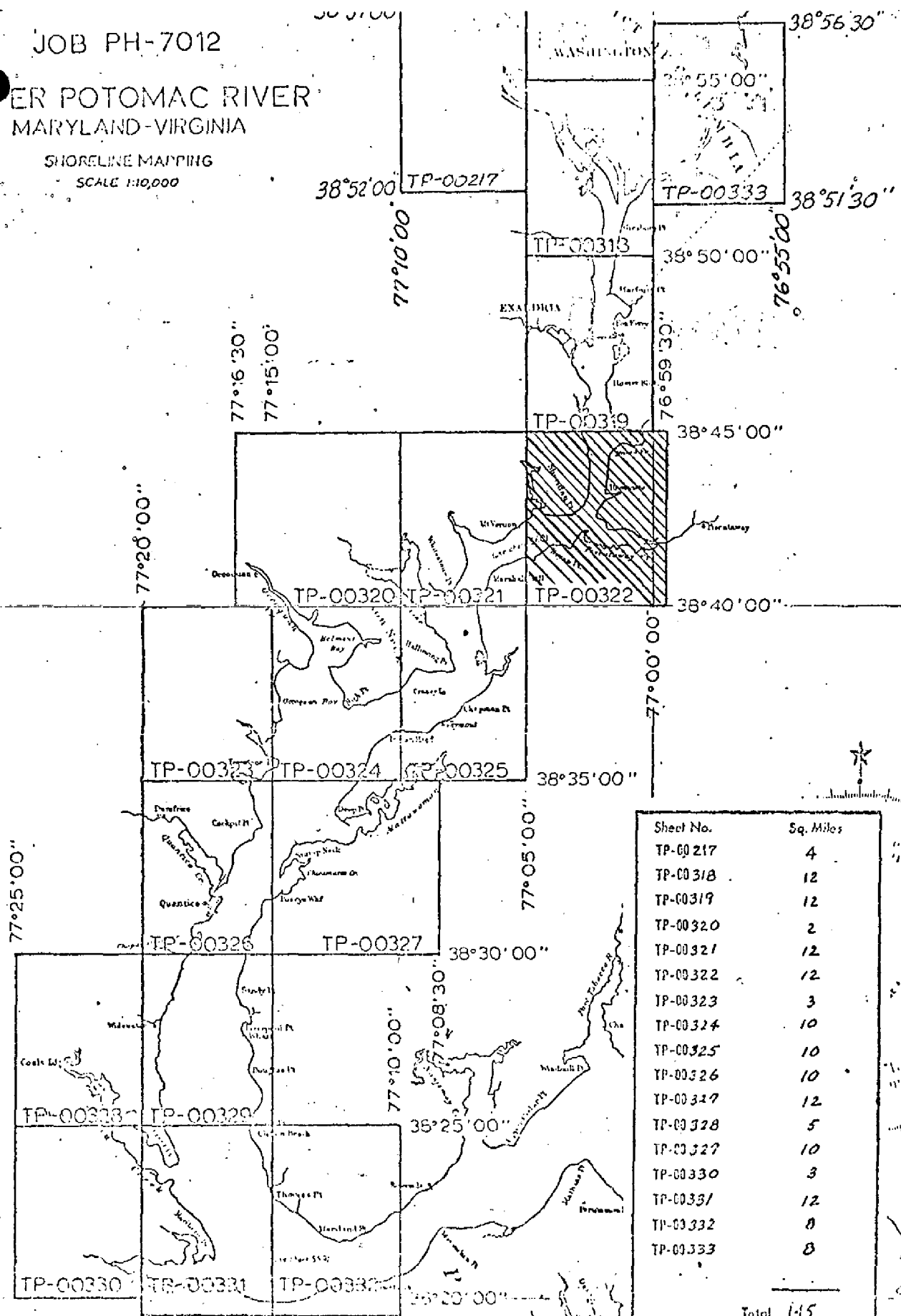
NOAA FORM 76-36D (3-72)		TP-00322			U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	
RECORD OF SURVEY USE						
I. MANUSCRIPT COPIES						
COMPILATION STAGES					DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT		
Compilation complete, pending field edit	Apr. 1973	Class III Manuscript	6/8/73	6/6/73		
Field Edit applied Compilation Complete	Mar. 1975	Class I Manuscript	4/18/75			
Final Review	Feb. 1977					
II. LANDMARKS AND AIDS TO NAVIGATION						
1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH						
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS			
1		7/16/75	Landmarks to be deleted			
1		7/16/75	Landmarks to be Charted			
1		7/16/75	Aids to be Charted			
2. <input type="checkbox"/> REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: <u>July 16, 1975</u> 3. <input type="checkbox"/> REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____						
III. FEDERAL RECORDS CENTER DATA						
1. <input checked="" type="checkbox"/> BRIDGING PHOTOGRAPHS; <input checked="" type="checkbox"/> DUPLICATE BRIDGING REPORT; <input type="checkbox"/> COMPUTER READOUTS. 2. <input checked="" type="checkbox"/> CONTROL STATION IDENTIFICATION CARDS; <input checked="" type="checkbox"/> FORM NOS 567 SUBMITTED BY FIELD PARTIES. 3. <input checked="" type="checkbox"/> SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS: _____ 4. <input checked="" type="checkbox"/> DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: <u>May 1977</u>						
IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)						
SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL			
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT				
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL			
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT				
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL			
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT				

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 $38^{\circ} 57' 00''$ 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 plane 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 affect the overall shoreline delineation. Cloudy water conditions coupled with the high tide level resulted in those features (rocks, wrecks, shoals, etc.) in the river at or below MHW not being visible on the photographs. As a result, many of the features picked up by the hydrographer could not be verified photogrammetrically.

Field work prior to compilation was limited to the recovery and identification of horizontal control necessary for bridging. This was done in August through 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 and February, 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)

PAGE 2

WASHINGTON D C

APR 1972 TM 75.00W

DAY OF MONTH

HOURL	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	8.33	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	7.65	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 MLW

$$\begin{array}{r} 8.66 \\ 9.15 \\ -4.49 \\ \hline \end{array}$$
 above MLW

FIELD INSPECTION

TP-00322

There was no field inspection prior to compilation. Field inspection was limited to the recovery and identification of horizontal control required for bridging.

PHOTOGRAMMETRIC 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 Stereoplainograph 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:

WOODBIDGE 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

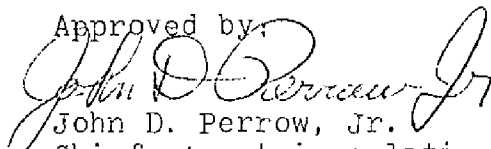
strip 1	72 E(c) 1624R	thru	1631R
	72 K 7254R		7262R
strip 2	72 E(c) 1615R	thru	1621R
	72 K 7245R		7252R
strip 3	72 E(c) 1594R	thru	1601R
	72 K 7225R		7232R
strip 4	72 E(c) 1644R	thru	1649R
	72 K 7275		7279R
strip 5	72 E(c) 1654	thru	1666R
	72 K 7285		7297R
strip 6	72 E(c) 1649R	thru	1655R
	72 K 7280R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

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

Submitted by


Donald M. Brant

Approved by


John D. Perrow, Jr.

Chief, Aerotriangulation Section

A HORIZONTAL CONTROL (USED IN BRIDGING)
ON 50,000 SCALE COLOR IN PAGES (FOR BRIDGING)
ON 100,000 SCALE BLACK & WHITE IN PAGES
KEY TO CONTROL ON PAGE 2

JOB PH-7012

KEY TO HORIZONTAL CONTROL
USED FOR BRIDGING

1. OCCOQUAN PENAL INST. STANDPIPE 1959
2. OX 1959
3. WIG 1934
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 154 A 1960
16. NE 146 C
17. HYATTSVILLE RAD. STA. K'GA 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.	GEODEIC DATUM		AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS	
			PH-7012	N.A. 1927		STATE	ZONE	ϕ LATITUDE	λ LONGITUDE	FORWARD	BACK
TP-00322	VANE ON MANSION WEST OF SHERIDAN POINT RIVER FARM HOUSE CUPOLA 1928	G.P.G. 2888 P. 122 MD					X=	$\phi 38^{\circ} 42' 40.680''$		1254.4	(595.7)
							Y=	$\lambda 77^{\circ} 04' 02.161''$		52.5	(1397.2)
	UPPER POTOMAC RIVER LIGHT 77, 1959	G.P. Vol. II P. 392					X=	$\phi 38^{\circ} 42' 23.509''$		724.9	(1125.2)
							Y=	$\lambda 77^{\circ} 02' 55.760''$		1347.3	(102.5)
	FORT WASHINGTON LIGHT 80, 1959	G.P. Vol. II P. 393					X=	$\phi 38^{\circ} 42' 43.772''$		1349.8	(500.3)
							Y=	$\lambda 77^{\circ} 02' 13.978''$		337.7	(1112.0)
	FORT WASHINGTON LIGHT, 1959	G.P. Vol. II P. 393					X=	$\phi 38^{\circ} 42' 43.758''$		1349.3	(500.8)
							Y=	$\lambda 77^{\circ} 02' 13.904''$		335.9	(1113.8)
	BOUNDARY MONUMENT NO. 55 (VA) 1929	G.P.G. 3686 P. 249 VA					X=	$\phi 38^{\circ} 42' 32.183''$		992.4	(857.7)
							Y=	$\lambda 77^{\circ} 04' 48.864''$		1180.7	(269.0)
	BOUNDARY MONUMENT NO. 56 (VA) 1929	G.P.G. 3686 P. 249 VA					X=	$\phi 38^{\circ} 42' 41.095''$		1267.2	(582.9)
							Y=	$\lambda 77^{\circ} 04' 25.818''$		623.8	(825.9)
	BRYAN 2, 1928	G.P.G. 2833 P. 118					X=	$\phi 38^{\circ} 41' 43.106''$		1329.2	(520.9)
							Y=	$\lambda 77^{\circ} 04' 06.958''$		168.1	(1281.8)
	BEALLE RM5, 1957	G.P. Vol. II P. 490					X=	$\phi 38^{\circ} 40' 08.5591''$		263.9	(1586.2)
							Y=	$\lambda 76^{\circ} 59' 37.2655''$		900.9	(549.6)
	FORT, 1928	G.P. VA & MD G 2888 P. 118					X=	$\phi 38^{\circ} 42' 43.781''$		1350.0	(500.1)
							Y=	$\lambda 77^{\circ} 02' 14.043''$		339.3	(1110.4)
							X=	ϕ			
							Y=	λ			
COMPUTED BY	A. C. Rauck, Jr.		DATE	2/20/73			COMPUTATION CHECKED BY	C. E. Blood		DATE	2-22-73
LISTED BY			DATE				LISTING CHECKED BY			DATE	
HAND PLOTTING BY			DATE				HAND PLOTTING CHECKED BY			DATE	

COMPILATION REPORT

TP-00322

31. DELINEATION

Delineation was by the Wild B-8 Stereplotter. 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 waterline and alongshore details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

Appropriate copies of Forms 76-40 were forwarded to the field editor, deletions and verification.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

See Form 76-36B, Item #5, of this Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY

No Statement

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U.S. Geological Survey Quadrangles MOUNT VERNON, MD-VA scale 1:24,000 dated 1966, revised 1971 and PISCATAWAY, MD scale 1:24,000 dated 1957, revised 1971.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Chart 560, 1:40,000 scale, 32nd edition dated February 26, 1972.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Charles E. Blood
Charles E. Blood
Cartographic Technician
April 1973

Approved:

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7012 (Potomac River)

TP-00322

Arcturus ✓

Broad Creek ✓

Broadwater Estates

Bryan Point ✓

Calvert Manor ✓

Collingwood

Fort Washington ✓

Harmony Hall ✓

Hatton Point

Hedge Neck ✓

Little Hunting Creek ✓

Maryland

Mockley Point ✓

North Branch

Piscataway Creek ✓

Potomac River ✓

Riverview

Silesia

Sheridan Point

Swan Creek

Tantallon

Virginia

Approved by:



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

TP-00322

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

FIELD EDIT REPORT

TP-00322

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 all shoreline and alongshore features was made, and all deletions, additions, and corrections are either shown or referred to on the field edit paper ozalid. All field edit notes are in purple ink for additions and corrections and in green ink for deletions.

Searches by boat for reported features below the mean high water line (eg. wrecks, piling, rocks) were made. Because of the limited visibility into the water and lack of wire drag gear, any negative findings noted in the field edit data should not be considered conclusive, unless otherwise stated. The latest hydrographic survey of the area should be consulted for more complete information.

Most of the field edit inspection was accomplished by boat. Features were located by either sextant fixes, planetable, or photo identification.

52. ADEQUACY OF COMPILATION

Compilation of shoreline and alongshore features was generally adequate with the exception that many areas were compiled including overhanging trees along the shoreline. Some of these areas were noted on the photographs and field edit ozalid. Compilation will be complete when field edit notes are applied.

54. RECOMMENDATIONS

None.

56. GEOGRAPHIC NAMES

No discrepancies were found while editing this sheet.

57. LANDMARKS AND AIDS TO NAVIGATION

Navigational lights to be charted include Riverview Wharf Light # 82, 1959, Fort Washington Light 80, 1959, and Upper Potomac River Light # 77, 1959. Ten daybeacons are recommended for charting. These are privately maintained.

Two landmarks are recommended to be charted and two are recommended deleted.

Forms 76-40 have been completed for the above.

58. FIELD EDITORS

Field edit was performed by Lt. Richard D. Black, Lt. George W. Jamerson, and Mr. James T. McLamb in October, 1974.

Respectfully Submitted,

George W. Jamerson

George W. Jamerson
Lt. NOAA
Chief, Photo Party 61
November 1, 1974

To charts
7/11/75

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY			
NONFLOATING AIDS				FOR CHARTS							
REPORTING UNIT (Field Party, Ship or Office)		STATE		LOCALITY		DATE					
Coastal Mapping Div. AMC- Norfolk, Va.		Maryland Virginia		Potomac River		Mar. 1975					
OPR PROJECT NO.		JOB NUMBER		SURVEY NUMBER		D.M. METERS					
409		Ph-7012		TP-00322							
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)		LATITUDE		LONGITUDE		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED	
				D.M. METERS		D.P. METERS					
DAYBEACON		(Swann Creek) Daybeacon 1 *		38-43		10.12 312		77-01		F-4-8-L Oct. 7, 1974	
DAYBEACON		(Swann Creek) Daybeacon 3 *		38-43		09.00 277		77-01		F-2-7-L Oct. 8, 1974	
DAYBEACON		(Swann Creek) Daybeacon 4 *		38-43		08.25 255		77-01		"	
DAYBEACON		(Swann Creek) Daybeacon 5 *		38-43		09.76 301		77-01		"	
DAYBEACON		(Swann Creek) Daybeacon 6 *		38-43		08.78 271		77-01		"	
MARKER		PRM-29 (Potomac River Fisheries Commission)		38-43		13.05 402		77-01		F-4-8-L Oct. 7, 1974	
		** These are located in Swann Creek, (Chart 12285). They are not charted nor included in the 1975 Light List.									

200.00

14

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.							U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION						
NONFLOATING AIDS OR MARKERS FOR CHARTS							ORIGINATING ACTIVITY						
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED		REPORTING UNIT (Field Party, Ship or Office)		STATE		LOCALITY		DATE		<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)			
OPR PROJECT NO.		JOB NUMBER	HAVE <input checked="" type="checkbox"/> HAVE NOT <input type="checkbox"/>	SURVEY NUMBER	DATUM	POSITION		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED			
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)			LATITUDE	LONGITUDE	OFFICE	FIELD					
						D.M. Meters	" / D.P. Meters						
LIGHT	Upper Potomac River Light 82	<i>ok</i>		TP-00322	38-43	19.20 592	77-01 1323	72E(C)(I)1652 Apr. 18, 1972	F-2-6-L Sept. 19, 1974	10LSC 560			
LIGHT	(Fort Washington Light 80, 1959)	<i>ok</i>			38-42	43.772 1349.8	77-02 337.7	" +	Triang. Rec. Oct. 8, 1974	"			
LIGHT	(Upper Potomac River Light 77, 1959)	<i>ok</i>			38-42	23.509 724.9	77-02 1347.3	" +	"	"			
DAYBEACON	(Piscataway Creek) Daybeacon 1 *	<i>superceded</i>			38-42	25.98 801	77-02 1476		F-4-8-L Oct. 4, 1974	"			
DAYBEACON	(Piscataway Creek) Daybeacon 2 *				38-42	19.94 615	77-02 271		"	"			
DAYBEACON	(Piscataway Creek) Daybeacon 3 *				38-42	13.89 428	77-02 46		"	"			
DAYBEACON	(Piscataway Creek) Daybeacon 4 *				38-42	05.31 164	77-01 1193		F-2-7-L "	"			
* = These are located in Piscataway Creek, but are not charted nor included in the 1975 Light List.													

REVIEW REPORT TP-00322

SHORELINE

February 14, 1977

61. GENERAL DELIVERY:

See Summary which is pages 6a and 6b of this Descriptive Report. A comparison print showing the differences noted in Paragraphs 62 through 65 is submitted with the original of this report.

The field editor submitted a Form 526 on which he states his belief that station "UPPER POTOMAC RIVER LIGHT #77, 1959 has, been disturbed". This station is being continued on the map as a triangulation station. It was used in the bridge and held in the B-8 models along with other basic control. Field surveyors however, have been adequately warned and should use this station with caution.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison were made with Topographic Surveys T-5757 and T-5758 each 1:10,000 scale dated 1939. Differences noted are shown on the comparison print in blue pencil.

In the area compared TP-00322 supersedes T-5757 and T-5758 which are the latest registered surveys of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison were made with USGS Quadrangles Mount Vernon, MD-VA and Piscataway, MD dated 1966 and 1957 respectively. Each is 1:24,000 scale and was photo-revised, 1971. Significant differences are shown on the comparison print in brown pencil.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with Boatsheet H-9479 (AHP-1260-10-6-74). Significant differences are shown on the comparison print in purple pencil.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 12289, 1:40,000 scale 36th

edition dated March 6, 1976. 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 requirement for Bureau Standards and the National Standards of Map Accuracy.

Submitted by:



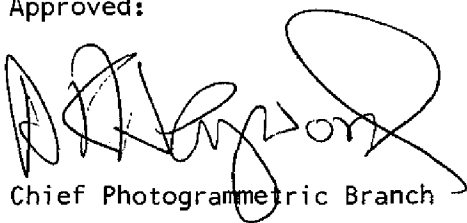
A. L. Shands
Cartographer

Approved for forwarding:

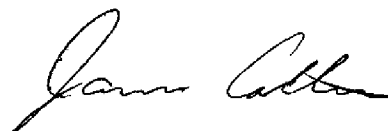


Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:



Chief Photogrammetric Branch

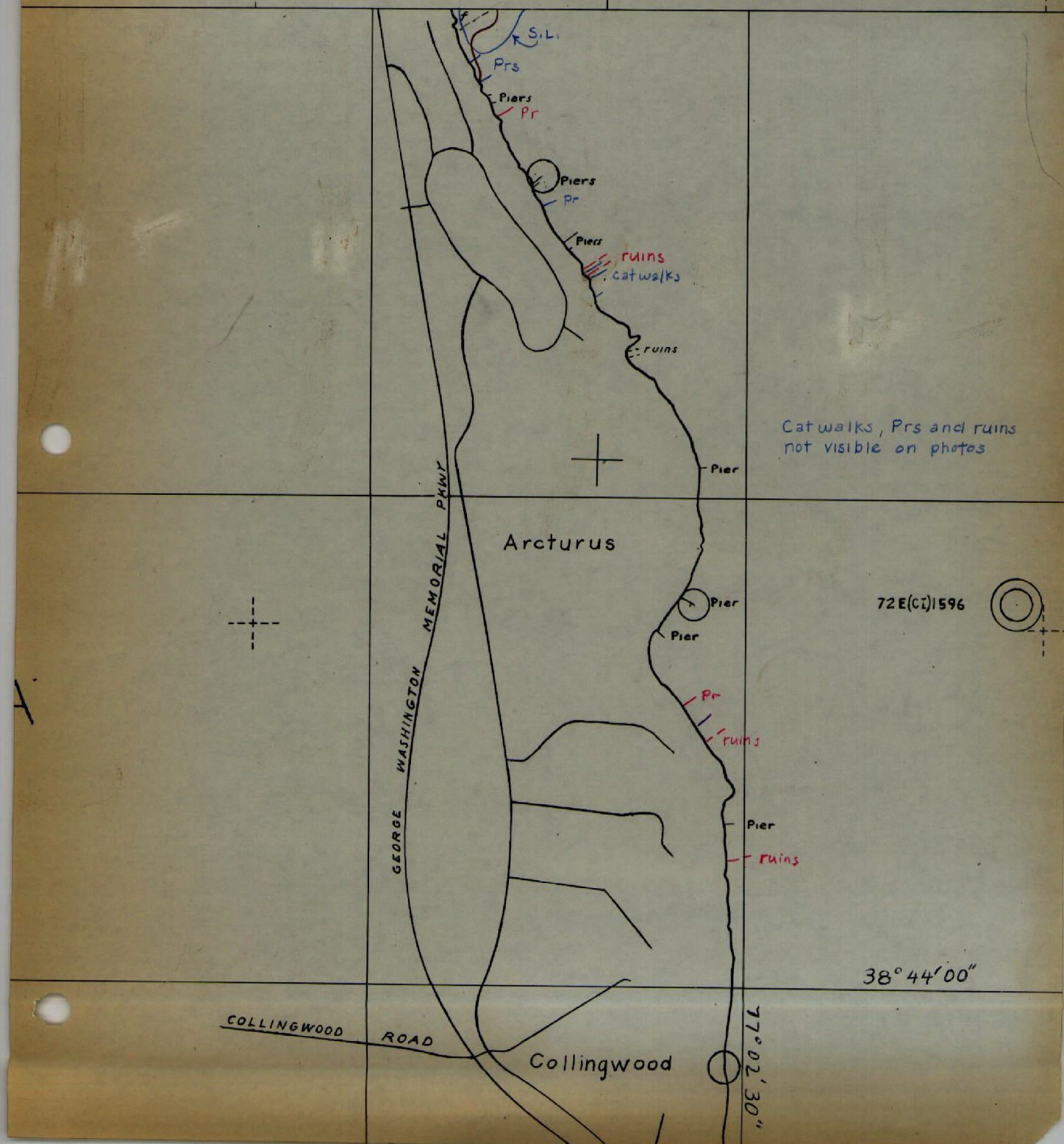


Chief, Coastal Mapping Division

NOTE: "The photogrammetric location and delineation of

TP- 00322

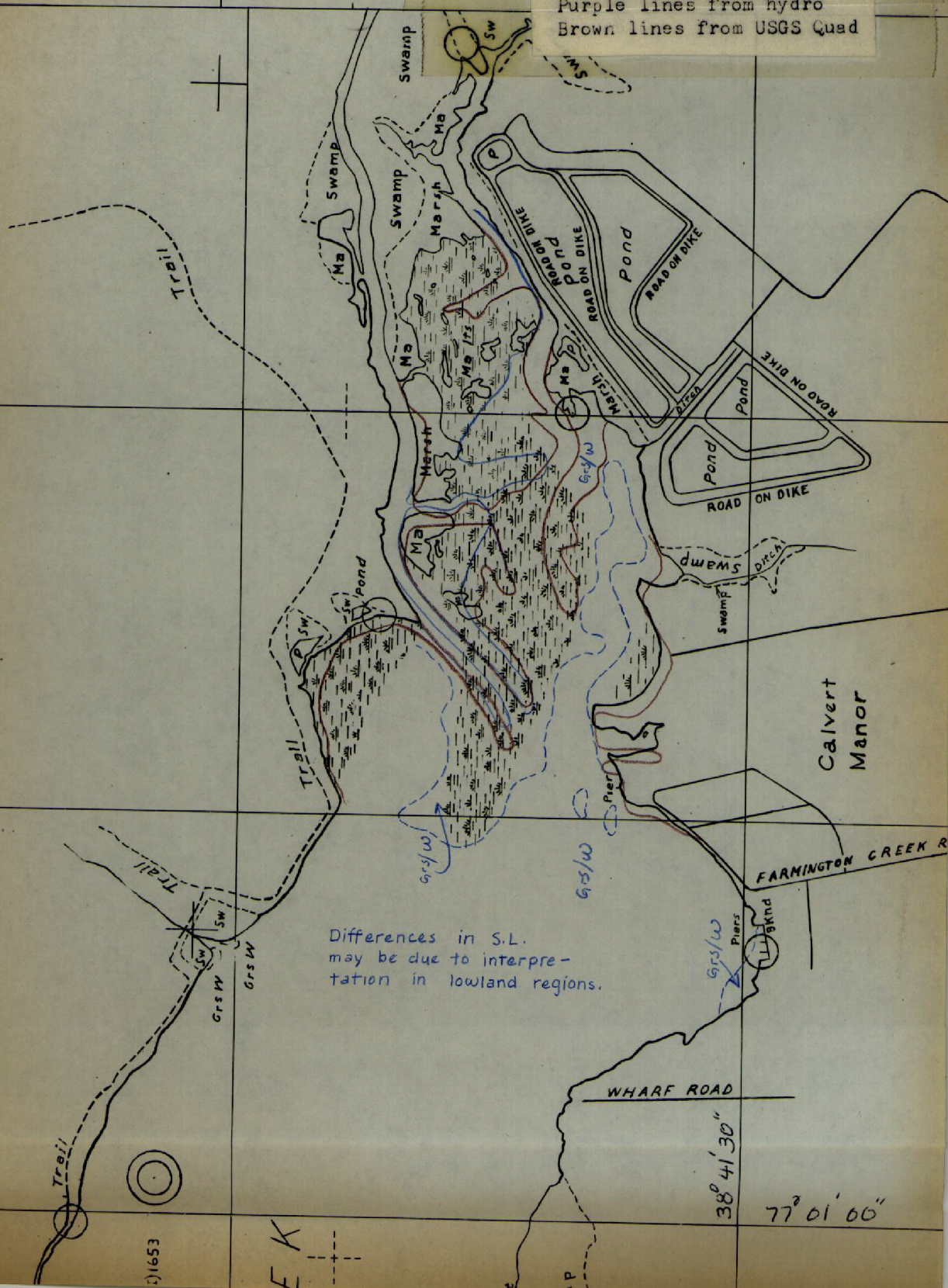
Red lines from chart
Blue lines from topo
Purple lines from hydro
Brown lines from USGS Quad

$$X = 790,000 \text{ FT. MD.}$$


COMPARISON PRINT

TP- 00322

Red lines from chart
Blue lines from topo
Purple lines from hydro
Brown lines from USGS Quad

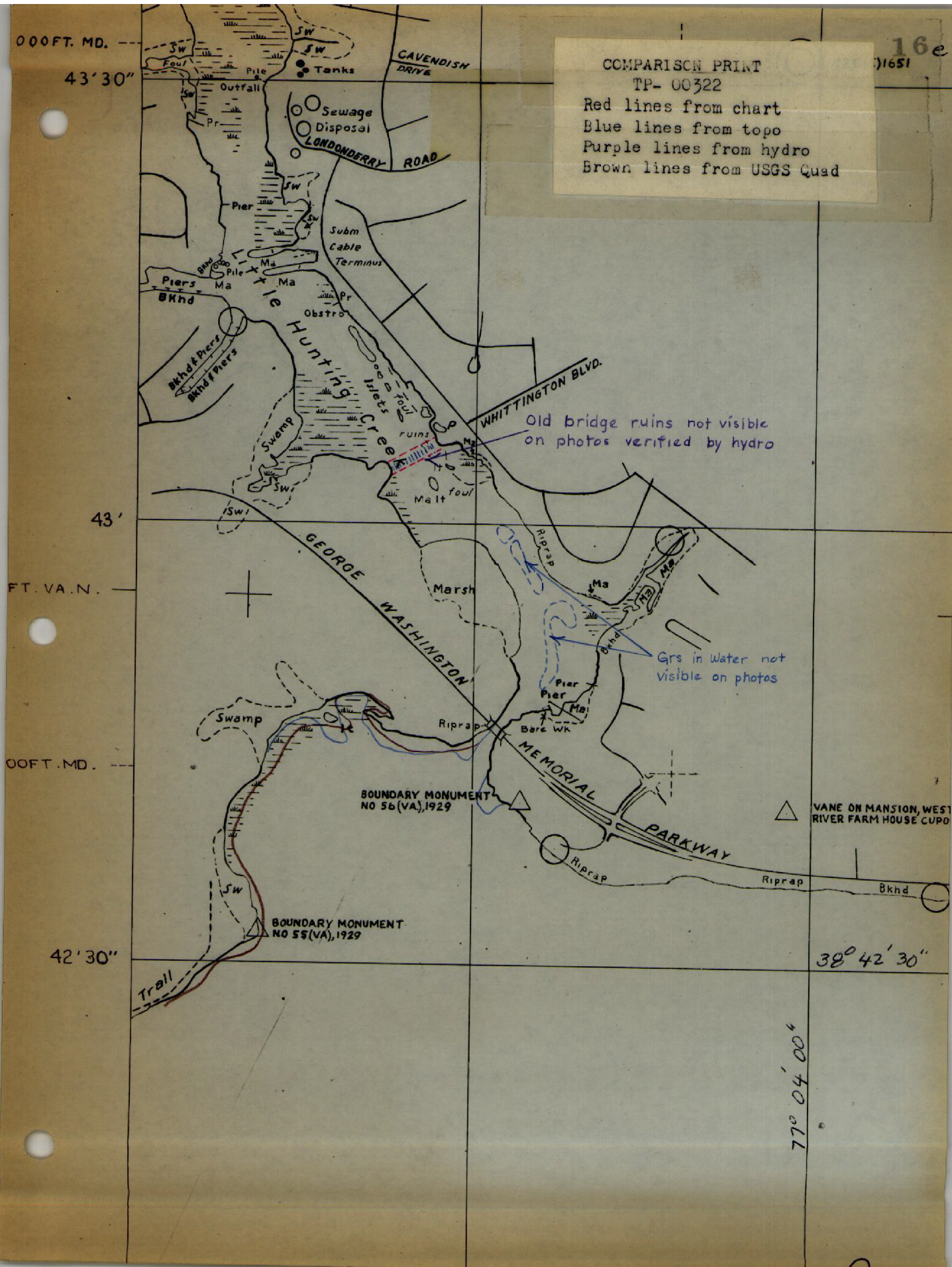


43' 30"

TP- 00322

Red lines from chart
Blue lines from topo
Purple lines from hydro
Brown lines from USGS Quad

16e
1651



77° 01' 00"

38° 43' 00"

S.L. differences due to construction.

Islet not visible on photos

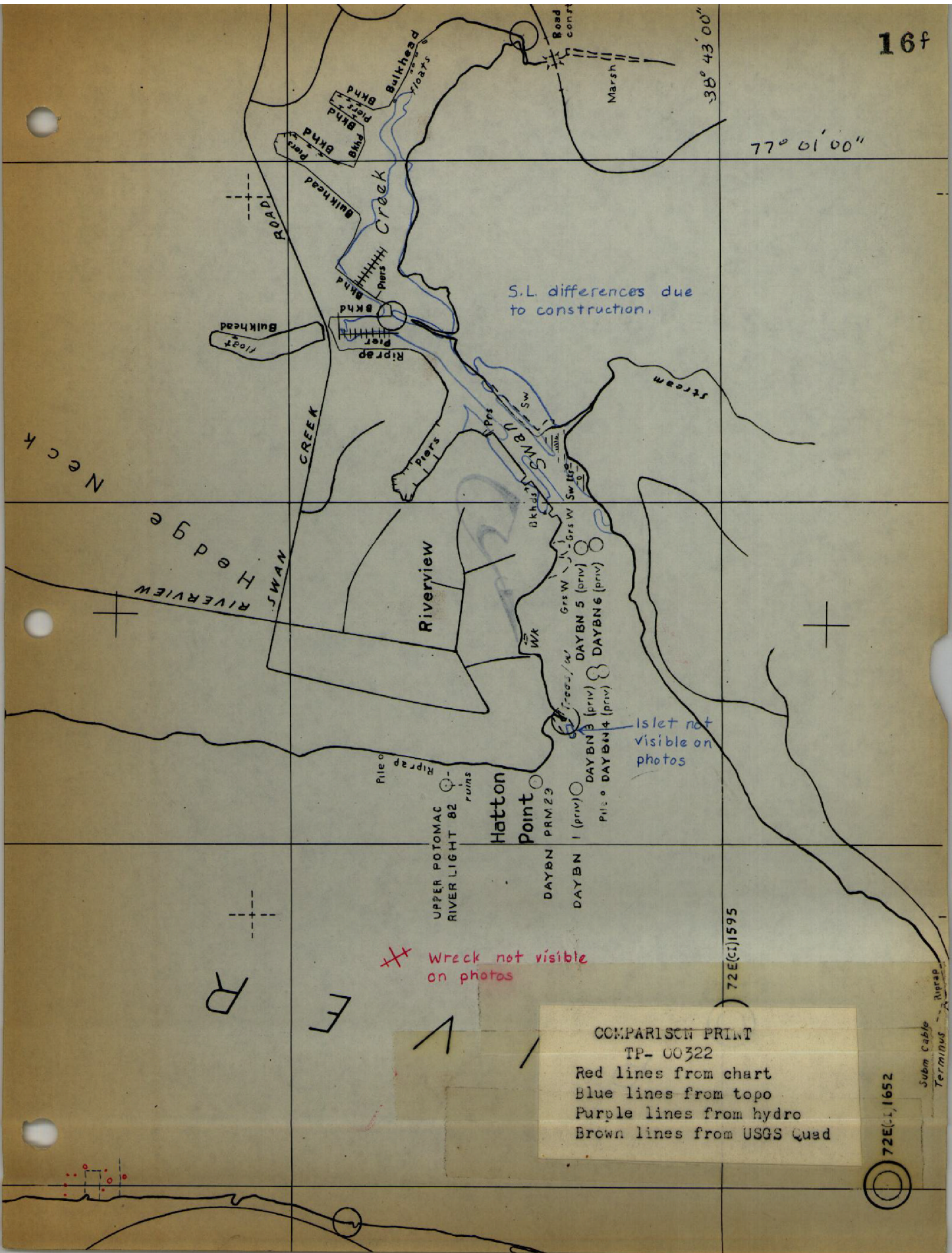
Wreck not visible on photos

COMPARISON PRINT
TP- 00322
Red lines from chart
Blue lines from topo
Purple lines from hydro
Brown lines from USGS Quad

72E(CI)1652

72E(CI)1595

Subm Cable
Terminus



RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP 00322

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

[illegible]