

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-70.12. .... Map No. .. TP-00322. ....  
Classification No. .... Edition No. .... 1. ....  
Field Edited Map

#### LOCALITY

State ..... Virginia - Maryland .....  
General Locality ..... Potomac River .....  
Locality ..... Piscataway 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.		TYPE OF SURVEY		SURVEY TP-00322	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. (1)	
				<input type="checkbox"/> RESURVEY		MAP CLASS Final F.E.	
				<input type="checkbox"/> REVISED		JOB PH-7012	
PHOTOGRAMMETRIC OFFICE				LAST PRECEDING MAP EDITION			
Coastal Mapping Division, Norfolk, VA				TYPE OF SURVEY		JOB PH- _____	
OFFICER-IN-CHARGE				<input type="checkbox"/> ORIGINAL		MAP CLASS _____	
Jeffrey G. Carlen				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation Jan. 9, 1973 Compilation Feb. 14, 1973				July 18, 1972			
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 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 BY METHOD: Stereoplanigraph LANDMARKS AND AIDS BY				D.M. Brant		Feb. 1973	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY				Coradomat			
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY				L.O. Neterer Jr.		Mar. 1973	
INSTRUMENT: Wild B-8				F.P. Margiotta		Mar. 1973	
SCALE: 1:15,000				N.A.			
				N.A.			
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY				C.E. Blood		Apr. 1973	
METHOD: Smooth drafted				R.R. White		Apr. 1973	
				N.A.			
SCALE: 1:10,000				N.A.			
HYDRO SUPPORT DATA BY				C.E. Blood		Apr. 1973	
				R.R. White		Apr. 1973	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				R.R. White		Apr. 1973	
				G.R. Vanderhaven		Mar. 1975	
6. APPLICATION OF FIELD EDIT DATA BY				A.L. Shands		Apr. 1975	
				A.L. Shands		Apr. 1975	
7. COMPILATION SECTION REVIEW BY				A.L. Shands		Apr. 1975	
8. FINAL REVIEW BY				A.L. Shands		Apr. 1975	
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. Carter		May 1977	

**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
	ESTABLISHED BY	None
	PRE-MARKED OR IDENTIFIED BY	R.O. Olsson
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	R.O. Olsson
	LOCATED ( <i>Field Methods</i> ) BY	None
	IDENTIFIED BY	R.O. Olsson
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	
		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 ( <i>Clarification of details</i> )			
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: <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> )			
CSI Forms 152 for each station listed.			

**HISTORY OF FIELD OPERATIONS**

1.  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 ( <i>Triangulation Stations</i> ) BY R.D. Black	Oct. 1974
	LOCATED ( <i>Field Methods</i> ) BY R.D. Black	Oct. 1974
	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 R.D. Black	Oct. 1974
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

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

3. PHOTO NUMBERS (*Clarification of details*)  
72E(CI)1653, 1659, 1595 and 1596

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*)

1 Field Edit Report	6 Forms 76-40 Landmarks and Aids
1 Field Edit Ozalid	10 Forms 526 Recovery Notes
1 Film Ozalid containing field edit notes	

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.  REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: July 16, 1975  
 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 <sup>76-40</sup> 367 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

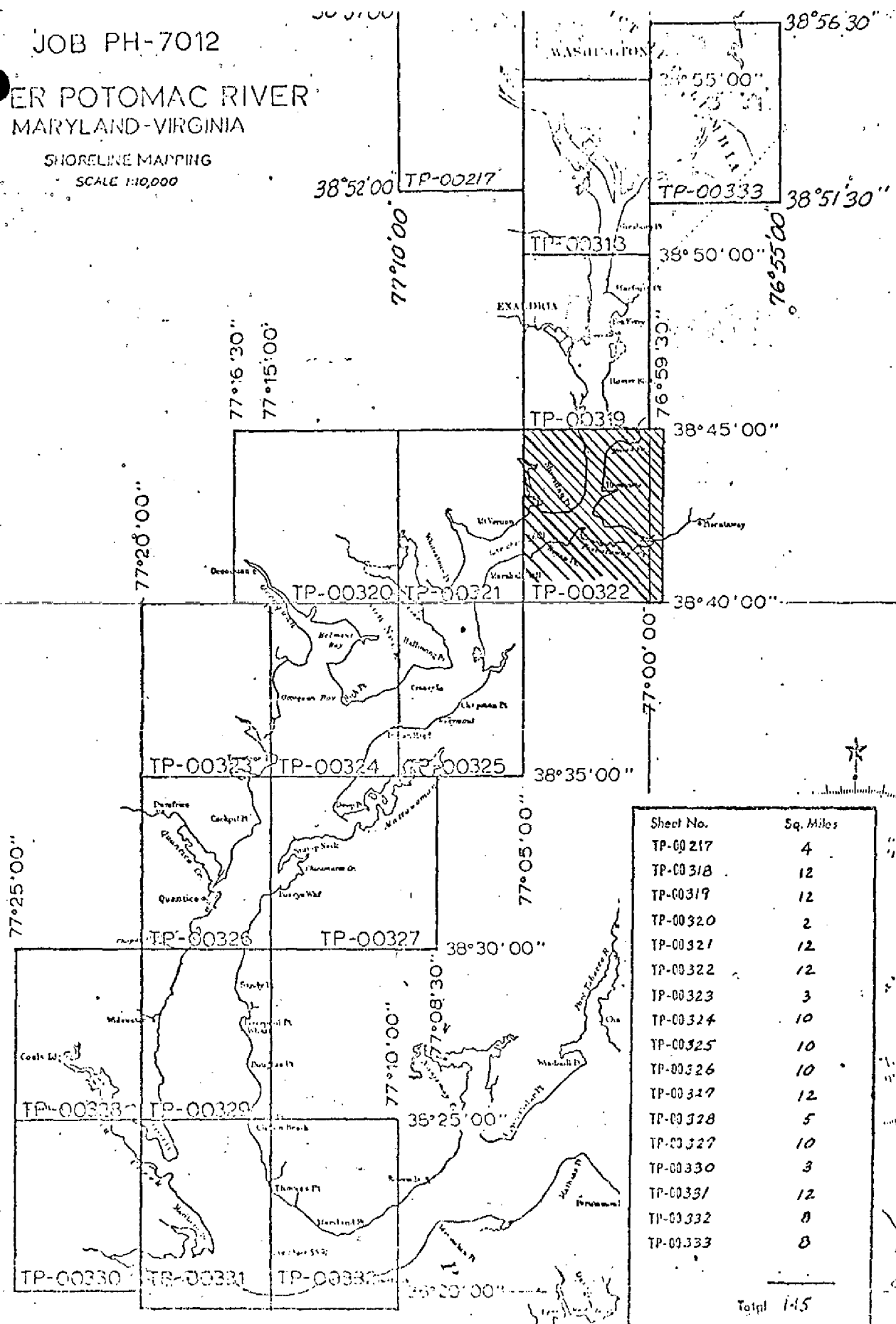
IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER 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
<b>Total</b>	<b>145</b>

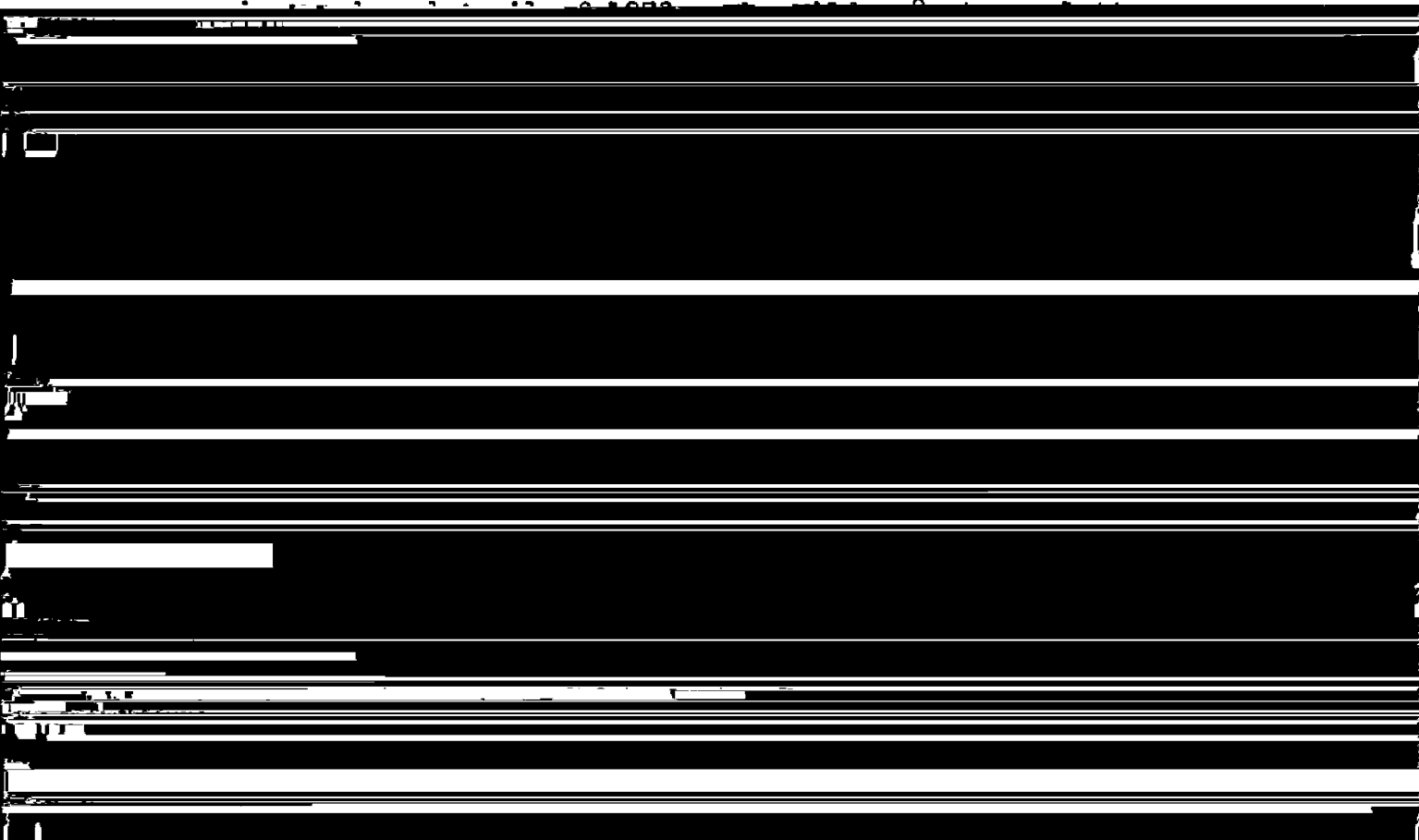
SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORTS

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





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)

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	7.85	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 MLW*

*8.66  
9.15  
-4.49 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 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:

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

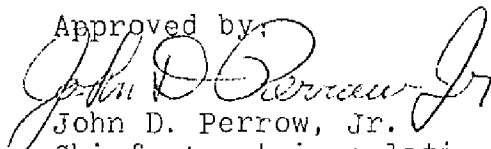
strip 1	72 E(c)	1624R	thru	1631R
	72 K	7254R		7262R
strip 2	72 E(c)	1615R	thru	1621R
	72 K	7245R		7252R
strip 3	72 E(c)	1594R	thru	1601R
	72 K	7225R		7232R
strip 4	72 E(c)	1644R	thru	1649R
	72 K	7275		7279R
strip 5	72 E(c)	1654	thru	1666R
	72 K	7285		7297R
strip 6	72 E(c)	1649R	thru	1655R
	72 K	7280R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

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

Submitted by

  
Donald M. Brant

Approved by

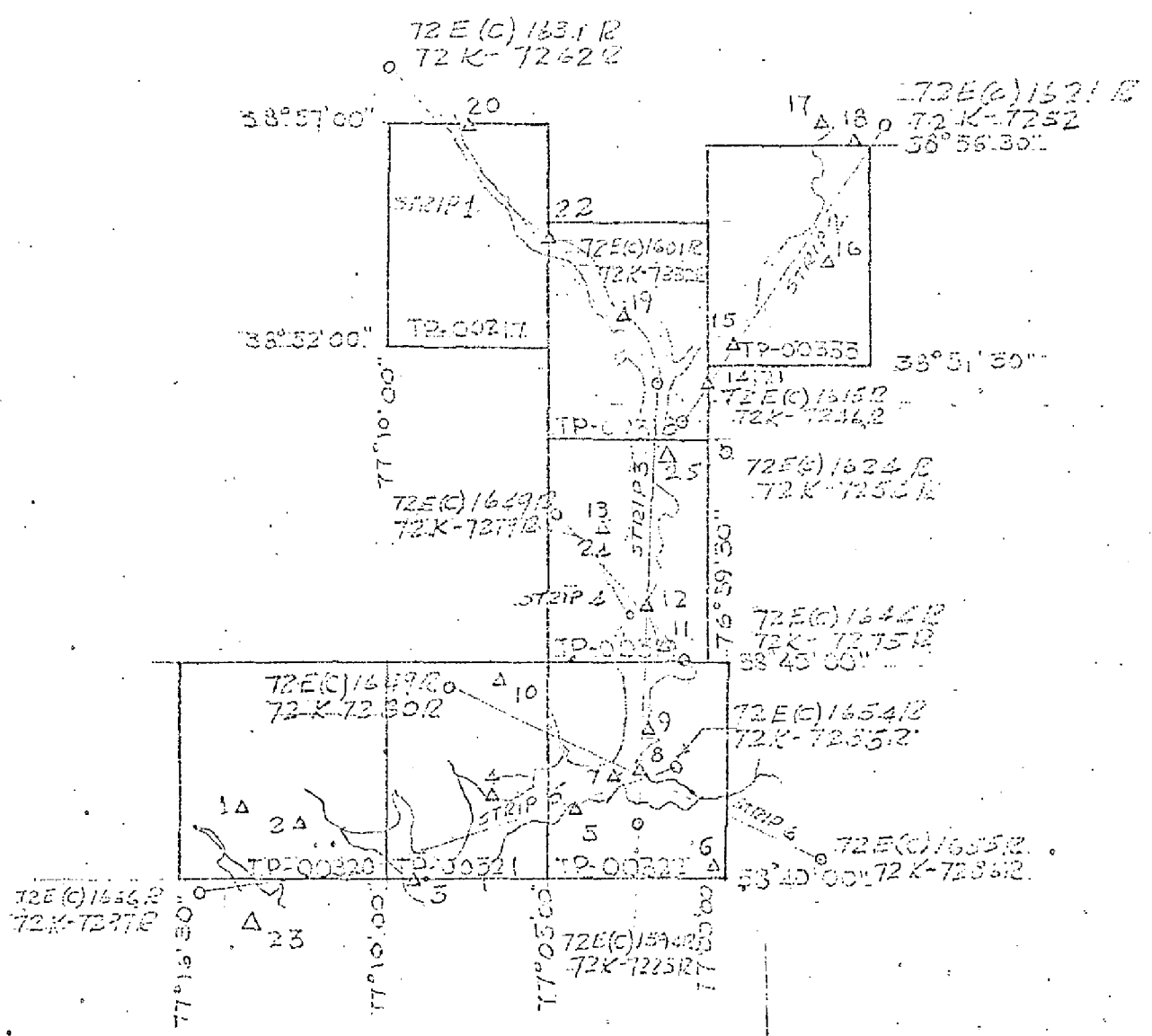
  
John D. Perrow, Jr.  
Chief, Aerotriangulation Section

# JOB PH-7012 PART 2

## UPPER POTOMAC RIVER MARYLAND-VIRGINIA

SHORELINE MAPPING

SCALE 1:10000



### LEGEND

- △ HORIZONTAL CONTROL (USED IN BRIDGING)
- 1:50,000 SCALE COLOR IN PAGES (FOR SHADING)
- 1:50,000 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.	GEODETTIC DATUM		ORIGINATING ACTIVITY		GEOGRAPHIC POSITION		REMARKS		
			PH-7012	N.A. 1927	STATE	ZONE	$\phi$ LATITUDE	$\lambda$ LONGITUDE	FORWARD	BACK	
		SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET							
TP-00322	VANE ON MANSION WEST OF SHERIDAN POINT RIVER FARM HOUSE CUPOLA 1928	G.P.G. 2888 P. 122 MD		X=	1254.4	Y=	52.5	$\phi$ 38° 42' 40.680"	$\lambda$ 77° 04' 02.161"	(595.7) (1397.2)	
	UPPER POTOMAC RIVER LIGHT 77, 1959	G.P. Vol. I P. 392		X=	724.9	Y=	1347.3	$\phi$ 38° 42' 23.509"	$\lambda$ 77° 02' 55.760"	(1125.2) (102.5)	
	FORT WASHINGTON LIGHT 80, 1959	G.P. Vol. I P. 393		X=	1349.8	Y=	337.7	$\phi$ 38° 42' 43.772"	$\lambda$ 77° 02' 13.978"	(500.3) (1112.0)	
	FORT WASHINGTON LIGHT, 1959	G.P. Vol. I P. 393		X=	1349.3	Y=	335.9	$\phi$ 38° 42' 43.758"	$\lambda$ 77° 02' 13.904"	(500.8) (1113.8)	
	BOUNDARY MONUMENT NO. 55 (VA) 1929	G.P.G. 3686 P. 249 VA		X=	992.4	Y=	1180.7	$\phi$ 38° 42' 32.183"	$\lambda$ 77° 04' 48.864"	(857.7) (269.0)	
	BOUNDARY MONUMENT NO. 56 (VA) 1929	G.P.G. 3686 P. 249 VA		X=	1267.2	Y=	623.8	$\phi$ 38° 42' 41.095"	$\lambda$ 77° 04' 25.818"	(582.9) (825.9)	
	BRYAN 2, 1928	G.P.G. 2833 P. 118		X=	1329.2	Y=	168.1	$\phi$ 38° 41' 43.106"	$\lambda$ 77° 04' 06.958"	(520.9) (1281.8)	
	BEALLE RM5, 1957	G.P. Vol. I P. 490		X=	263.9	Y=	900.9	$\phi$ 38° 40' 08.5591"	$\lambda$ 76° 59' 37.2655"	(1586.2) (549.6)	
	FORT, 1928	G.P. VA & MD G 2888 P. 118		X=	1350.0	Y=	339.3	$\phi$ 38° 42' 43.781"	$\lambda$ 77° 02' 14.043"	(500.1) (1110.4)	
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

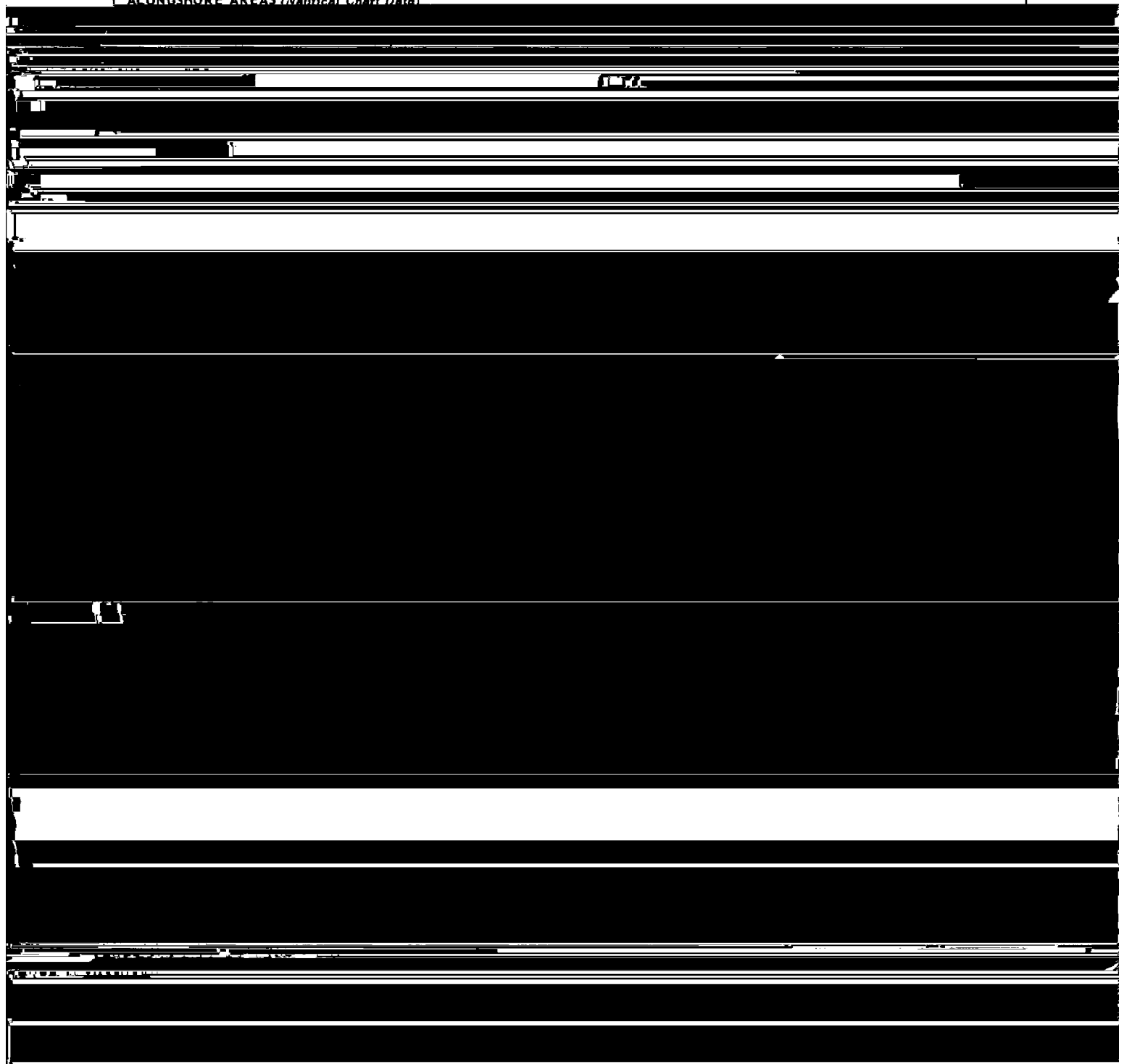
FORM C&GS-1002  
(9-66)

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 X X	10. PHOTOGRAMMETRIC PLOT REPORT RRW	11. DETAIL POINTS R R W

ALONGSHORE AREAS (Nautical Chart Date)



## 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  
**NAVIGATION AIDS OR LANDMARKS FOR CHARTS**

ORIGINATING ACTIVITY  
 HYDROGRAPHIC PARTY  
 GEODETIC PARTY  
 PHOTO FIELD PARTY  
 COMPILATION ACTIVITY  
 FINAL REVIEWER  
 QUALITY CONTROL & REVIEW GRP.  
 COAST PILOT BRANCH  
*(See reverse for responsible personnel)*

REPORTING UNIT  
(Field Party, Ship or Office)  
Coastal Mapping Div.  
AMC - Norfolk, Va.

STATE  
Maryland  
Virginia

LOCALITY  
Potomac River

DATE  
Mar. 1975

OPR PROJECT NO.  
409

JOB NUMBER  
Ph-7012

SURVEY NUMBER  
TP-00322

DATUM  
N.A. 1927

DESCRIPTION  
(Record reason for deletion of landmark or aid to navigation.  
Show triangulation station names, where applicable, in parentheses)

Ht. = 103(393)

Highest of five towers. Ht. = 163(313)

METHOD AND DATE OF LOCATION  
(See instructions on reverse side)

OFFICE  
72E(C)(I)1658  
Apr. 18, 1972

FIELD  
V-Vis.  
Oct. 9, 1974

F-3-6-L  
Oct. 16, 1974

POSITION

LATITUDE  
D.M. Meters

LONGITUDE  
D.P. Meters

38-42 30.66 77-00 56.50  
945 1365

38-41 15.77 77-03 54.66  
486 1321

CHARTING NAME

TANK

MICRO TOWER

CHARTS AFFECTED

101SC  
560  
"  
"





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 TO NAVIGATION FOR CHARTS		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)	
REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Div. AMC - Norfolk, Va.		STATE Maryland Virginia		Potomac River		Mar. 1975	
The following objects HAVE <input checked="" type="checkbox"/> HAVE NOT <input type="checkbox"/> been inspected from seaward to determine their value as landmarks.		D.A. 1927		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED	
OPR PROJECT NO. 409	JOB NUMBER Ph-7012	SURVEY NUMBER TP-00322	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION		OFFICE	FIELD
				DATUM	LONGITUDE		
CHARTING NAME	LATITUDE D.M. Meters	LONGITUDE D.P. Meters	D.M. Meters	D.P. Meters	D.M. Meters	D.P. Meters	D.P. Meters
DAYBEACON	38-43	77-01	(Swann Creek) Daybeacon 3 *	09.00 277	45.02 1088	F-2-7-L Oct. 8, 1974	" "
DAYBEACON	38-43	77-01	(Swann Creek) Daybeacon 4 *	08.25 255	44.86 1084	" "	" "
DAYBEACON	38-43	77-01	(Swann Creek) Daybeacon 5 *	09.76 301	34.00 821	" "	" "
DAYBEACON	38-43	77-01	(Swann Creek) Daybeacon 6 *	08.78 271	33.80 817	" "	" "
MARKER	38-43	77-01	PRM-29 (Potomac River Fisheries Commission)	13.05 402	54.48 1316	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.							

208.02

14c

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		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)		
REPORTING UNIT Coastal Mapping Div. AMC - Norfolk, Va.		STATE Maryland Virginia		Potomac River		Mar. 1975		
OPR PROJECT NO. 409		JOB NUMBER Ph-7012		SURVEY NUMBER TP-00322		DATUM N.A. 1927		
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)		POSITION		METHOD AND DATE OF LOCATION (See instructions on reverse side)		
				LATITUDE		LONGITUDE		
				° / ' / ''		° / ' / ''		
				D.M. Meters		D.P. Meters		
LIGHT	Upper Potomac River Light 82	38-43	77-01	19.20 592	54.75 1323	72E(C)(I)1652 Apr. 18, 1972	F-2-6-L Sept. 19, 1974	101SC 560
LIGHT	(Fort Washington Light 80, 1959)	38-42	77-02	43.772 1349.8	13.978 337.7	" #	Triang. Rec. Oct. 8, 1974	" "
LIGHT	(Upper Potomac River Light 77, 1959)	38-42	77-02	23.509 724.9	55.760 1347.3	" #	" "	" "
DAYBEACON	(Piscataway Creek) Daybeacon 1 *	38-42	77-02	25.98 801	19.71 476	F-4-8-L Oct. 4, 1974	" "	" "
DAYBEACON	(Piscataway Creek) Daybeacon 2 *	38-42	77-02	19.94 615	11.22 271	" "	" "	" "
DAYBEACON	(Piscataway Creek) Daybeacon 3 *	38-42	77-02	13.89 428	01.92 46	" "	" "	" "
DAYBEACON	(Piscataway Creek) Daybeacon 4 *	38-42	77-01	05.31 164	49.36 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:

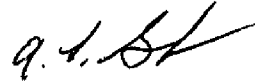
A comparison was made with Chart 12289, 1:40,000 scale 36th

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:



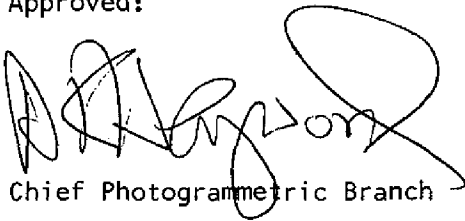
A. L. Shands  
Cartographer

Approved for forwarding:

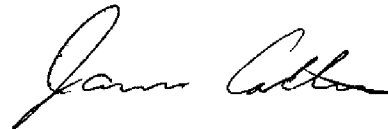


Joseph W. Vonasek  
Chief, Photogrammetric Branch, AMC

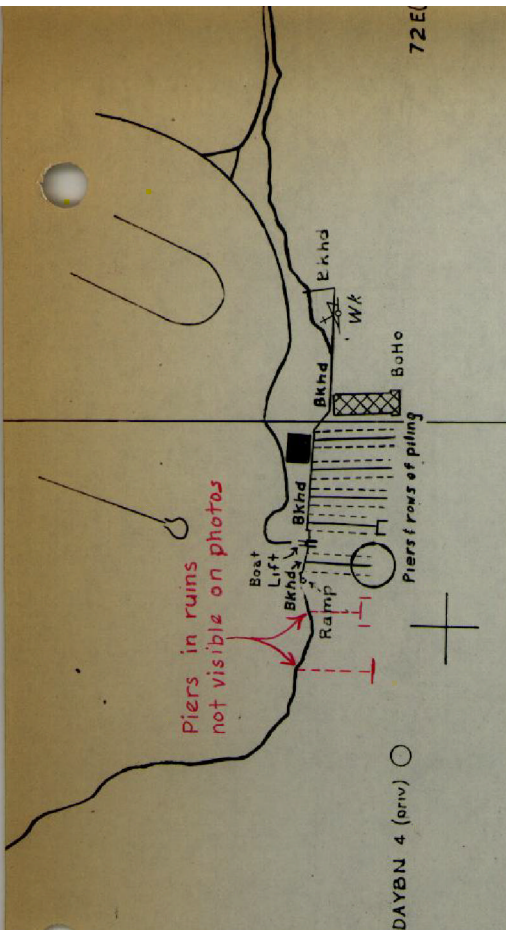
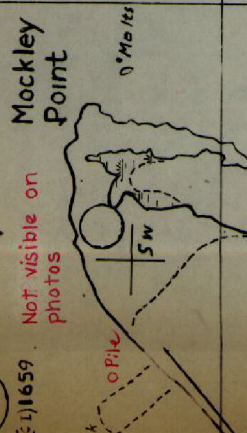
Approved:



Chief Photogrammetric Branch



Chief, Coastal Mapping Division

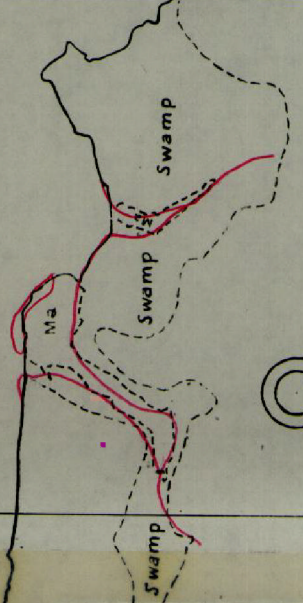
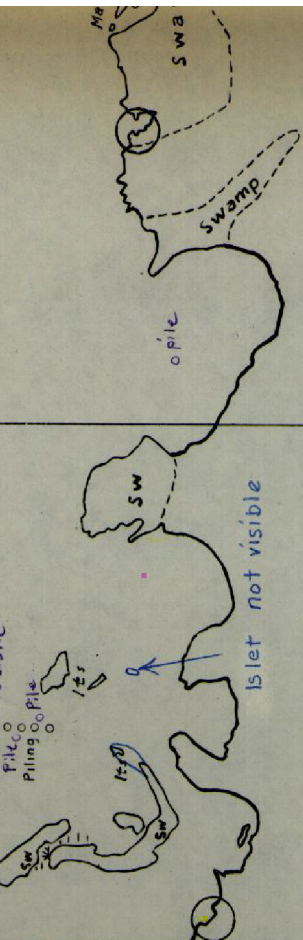


# PISCATAWAY

# CRE

ostk ostk ostk  
These features not visible on photos  
ostake  
Piling  
Pile  
ostake

Inlets 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(1)1594

77° 01' 30"

38° 41' 30"

NOTE:  
The photogrammetric location and delineation of

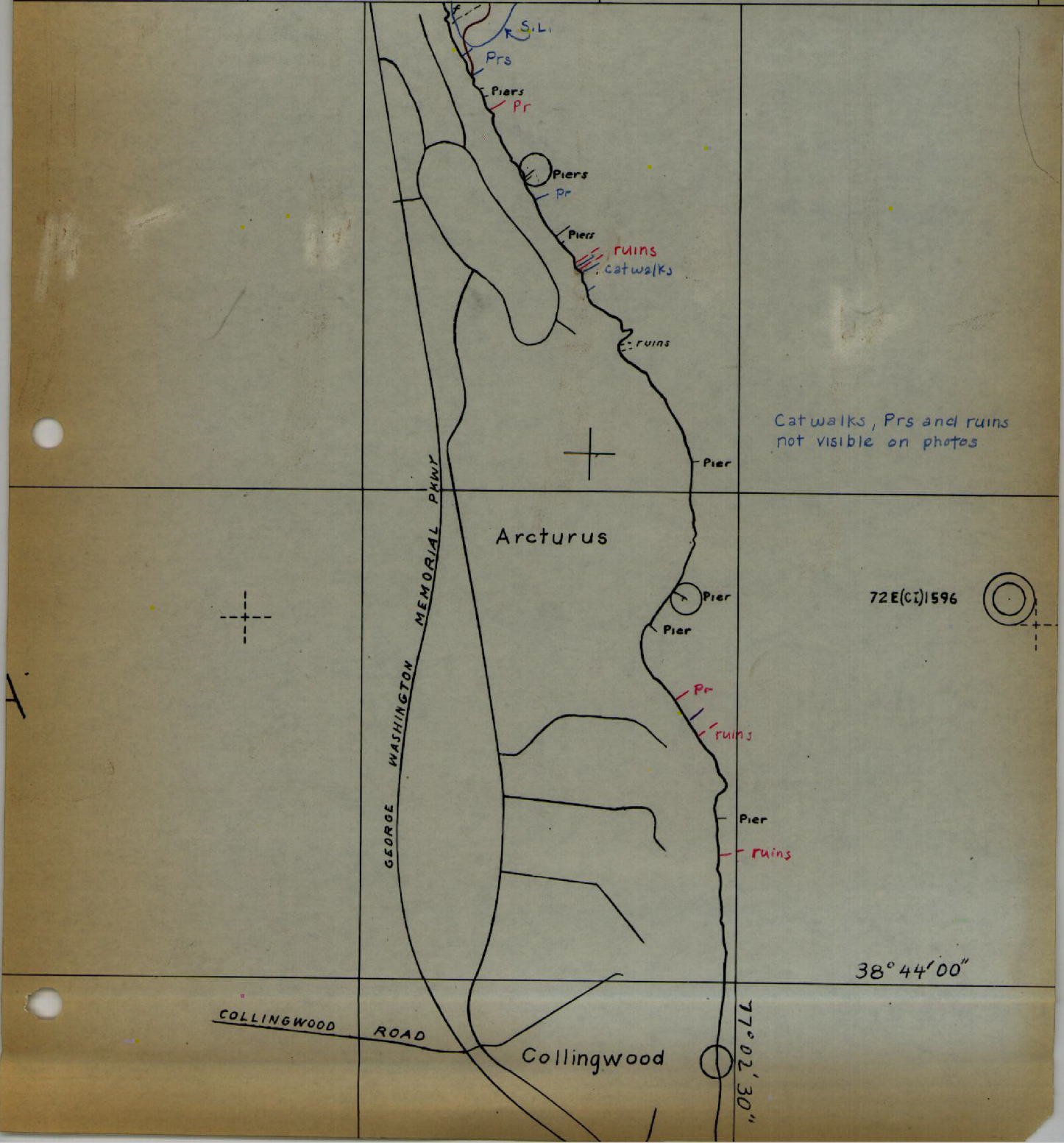
COMPARISON PRINT  
 TP-00322  
 Red lines from chart  
 Blue lines from topo  
 Purple lines from hydro  
 Brown lines from USGS Quad

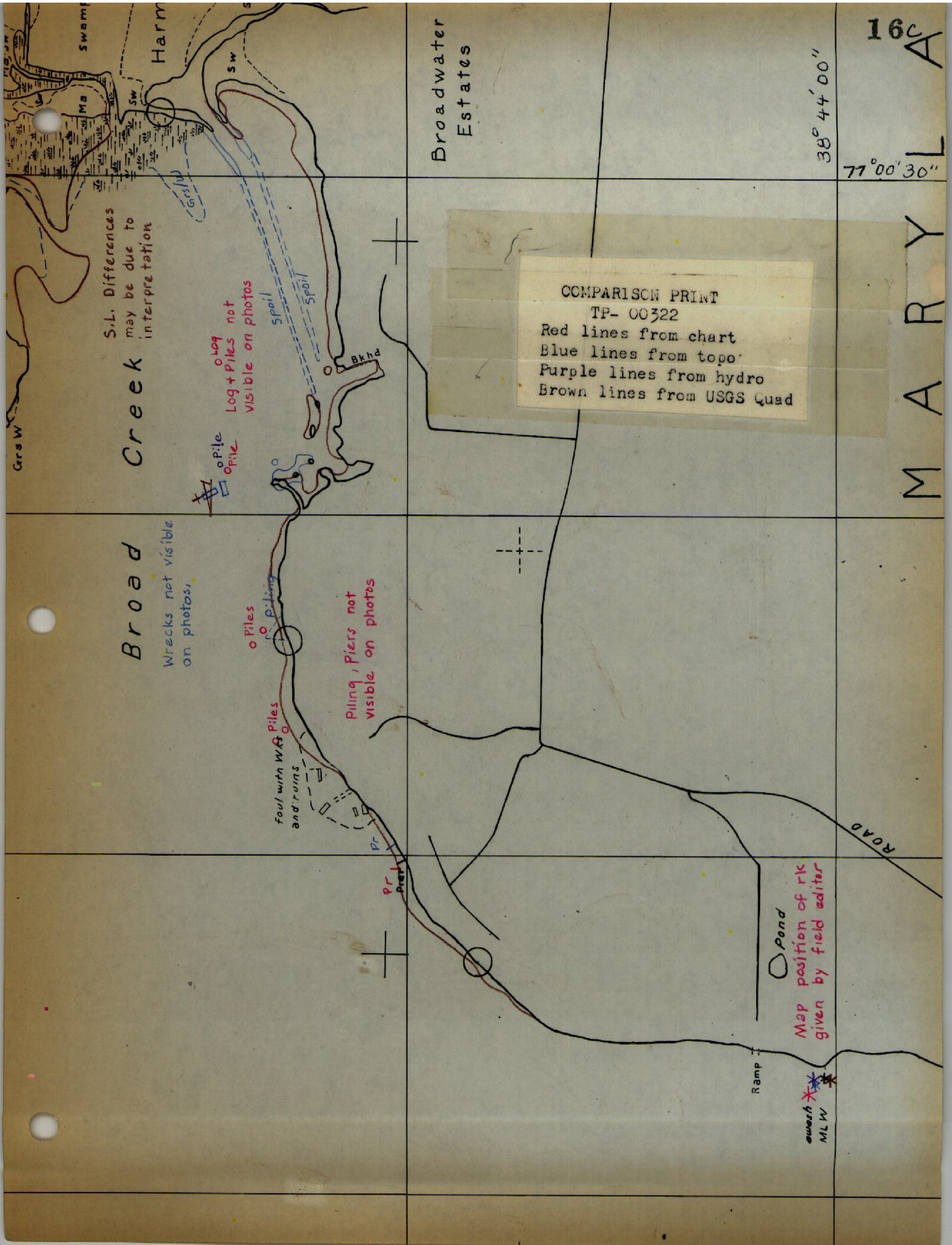
λ = 785,000 FT. MD.

03' λ = 2,415,000 FT. VA. N.

02'30"

λ = 790,000 FT. MD.





S.L. Differences may be due to interpretation

Broad Creek  
Wrecks not visible on photos.

Log + Piles not visible on photos

Pile

Piles

Piling, Piers not visible on photos

foul with wrecks and ruins

Pr

Pr

Pond  
Map position of rk given by field editor

MLW

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

Broadwater Estates

38° 44' 00"

77° 00' 30"

16C

M A R Y L A

ROAD

Ramp

Swamp

Harm

SW

SW

Spoil

Spoil

Bkhd

Grs W

Creek

Broad

Wrecks not visible on photos.

Piles

Piling, Piers not visible on photos

foul with wrecks and ruins

Pr

Pr

Pond  
Map position of rk given by field editor

MLW

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

Broadwater Estates

38° 44' 00"

77° 00' 30"

16C

M A R Y L A

ROAD

Ramp

Swamp

Harm

SW

SW

Spoil

Spoil

Bkhd

Grs W

Creek

Broad

Wrecks not visible on photos.

Piles

Piling, Piers not visible on photos

foul with wrecks and ruins

Pr

Pr

Pond  
Map position of rk given by field editor

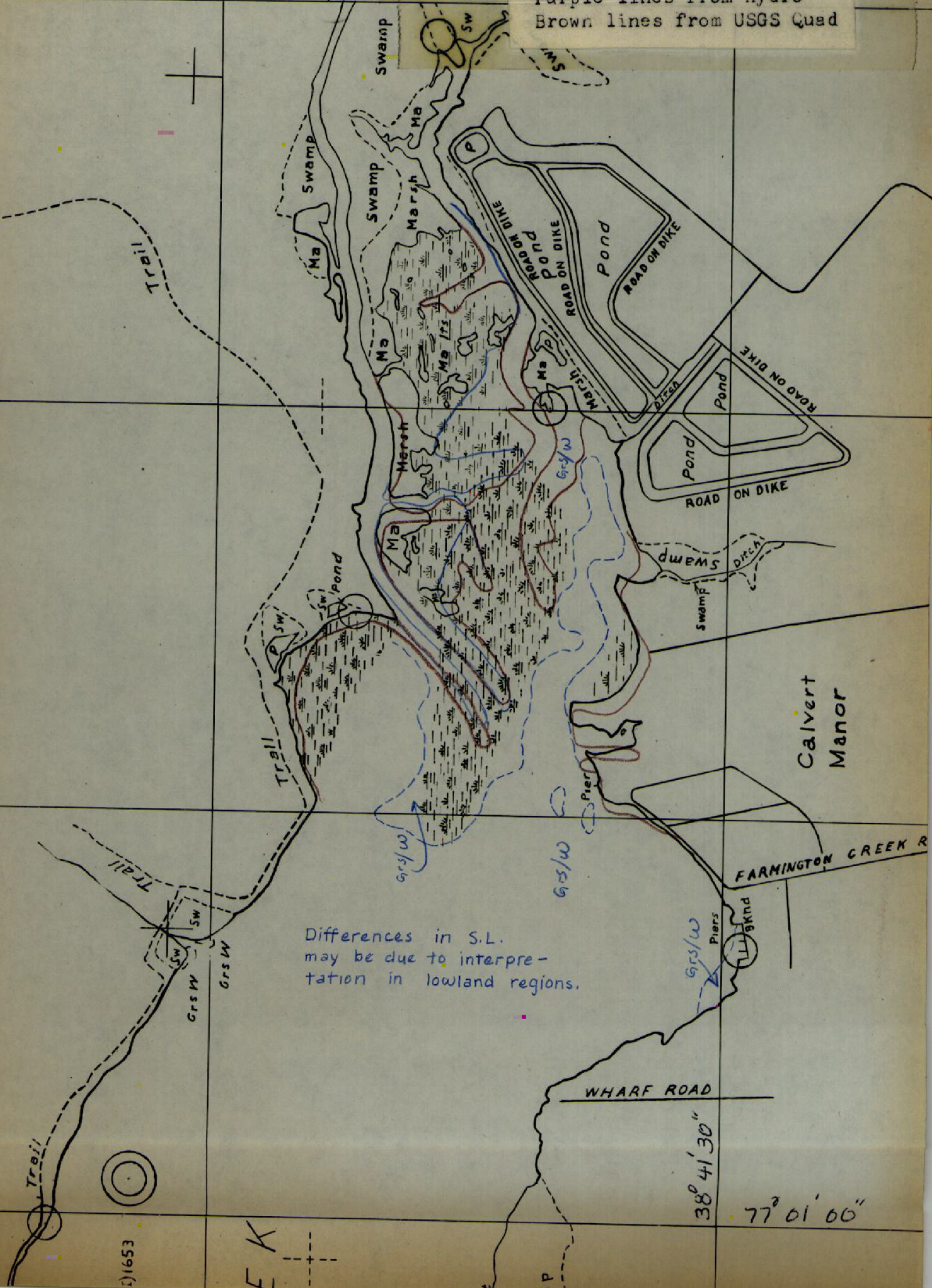
MLW

COMPARISON PRINT

TP- 00322

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

Y=380,000F  
42'  
Y=315,000F



Differences in S.L.  
may be due to interpre-  
tation in lowland regions.

1653

E K



000FT. MD.

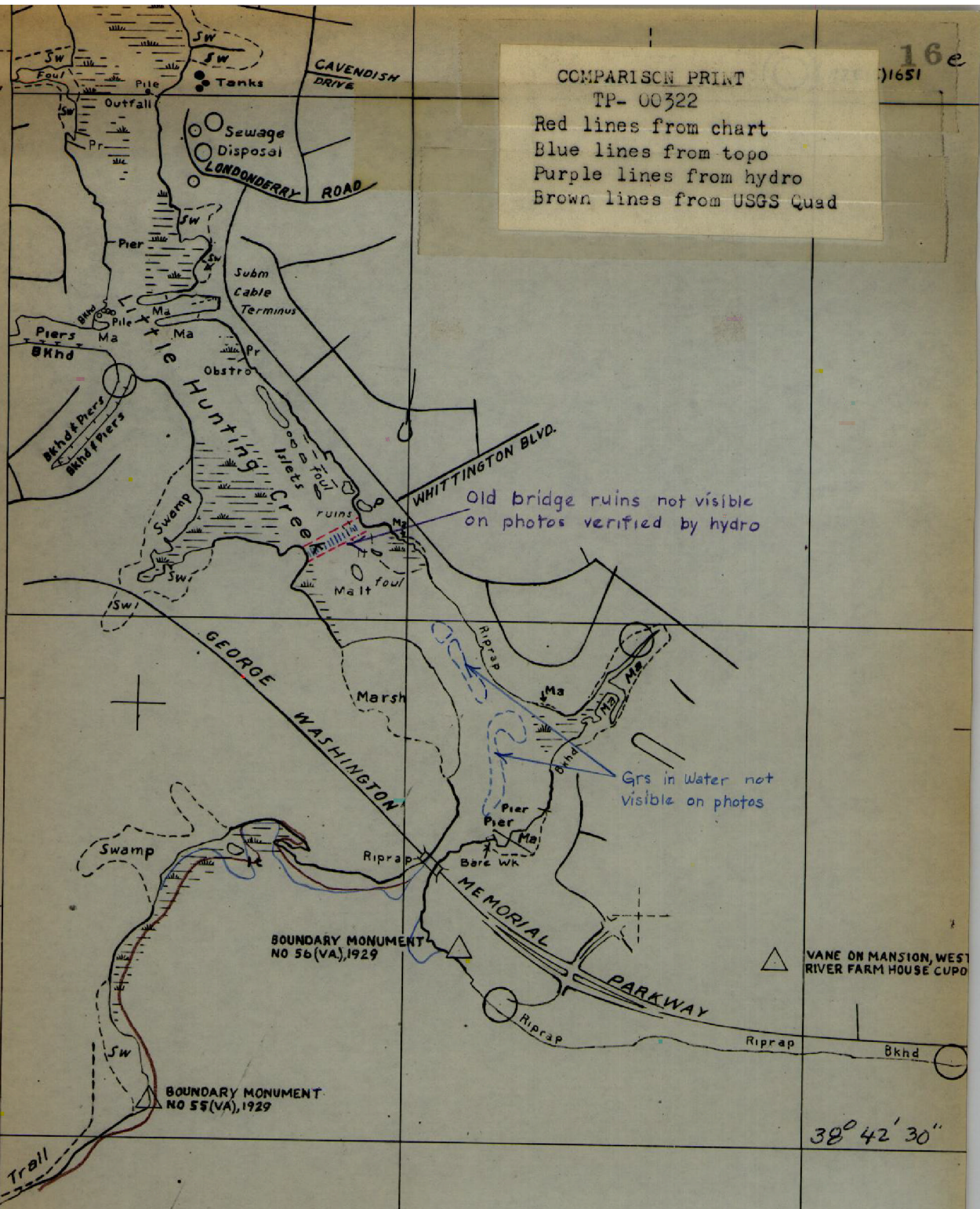
43' 30"

16e  
1651

COMPARISON PRINT

TP- 00322

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



43'

FT. VA. N.

00FT. MD.

42' 30"

38° 42' 30"

77° 04' 00"

77° 01' 00"

38° 43' 00"

S.L. differences due to construction.

Islet not visible on photos

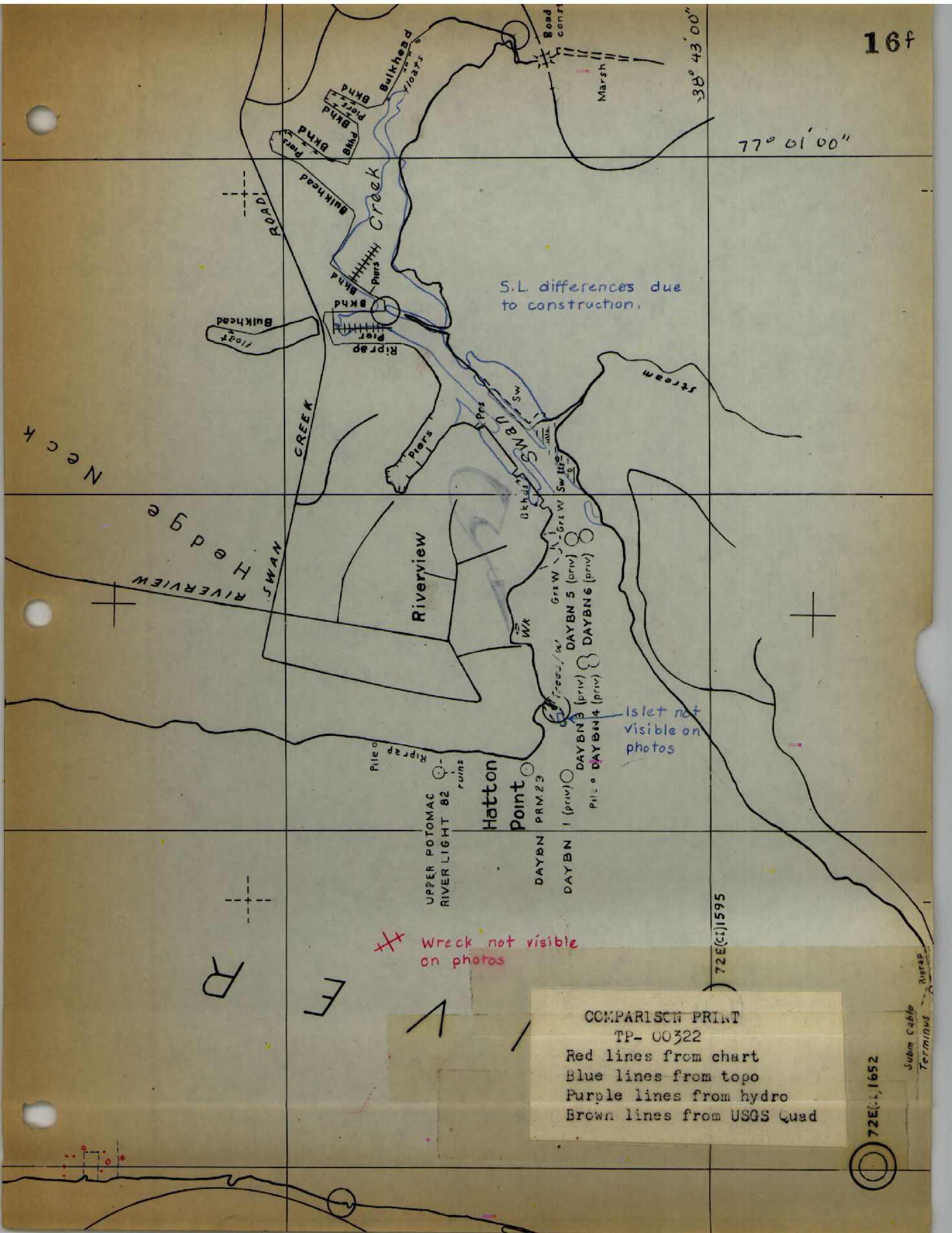
Wreck not visible on photos

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.

CHART	DATE	CARTOGRAPHER	REMARKS
12285 (101)	9/77	Dick Killen	Full <del>Part Before</del> After Verification Review Inspection Signed Via Drawing No. 20
12289 (560)	6-20-79	M. FANAS	Full <del>Part Before</del> After Verification Review Inspection Signed Via Drawing No. 43 (ADEQUATELY APPROVED)
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
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