ORIGINAL

TP-00320

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-00320

Classification No. *Edition No.* 1

Field Edited Map

LOCALITY

State Virginia

General Locality Potomac River

Locality Pohick Bay

19 72 TO 19 73

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972-761-152

TP-00320

12285 101 A - D,K, 9/77

12289 560 A - BW 2/79

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY
- [X] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

SURVEY TP. 00320
MAP EDITION NO. (1)
MAP CLASS Final (F.E.)
JOB PH. 7012

PHOTOGRAMMETRIC OFFICE
Coastal Mapping Division, Norfolk, VA

OFFICER-IN-CHARGE
Jeffrey G. Carlen, Cdr, NOAA

LAST PRECEEDING MAP EDITION
TYPE OF SURVEY
- [ ] ORIGINAL
- [ ] RESURVEY
- [ ] 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: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [X] MEAN HIGH-WATER; [X] MEAN LOW-WATER; [ ] MEAN LOWER LOW-WATER; [ ] 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	D.M. Brant	Feb, 1973
METHOD: Stereoplaingraph	LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS	PLOTTED BY		
METHOD: Coradomat	CHECKED BY		
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	L.O. Neterer, Jr.	Mar, 1973
	CHECKED BY	C.E.Blood/F.P. Margiotta	Mar, 1973
INSTRUMENT: Wild B-8	CONTOURS BY	NA	
SCALE: 1:15,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	Charles Parker	Apr, 1973
	CHECKED BY	Richard R. White	Apr, 1973
METHOD: Smooth Drafted	CONTOURS BY	NA	
	CHECKED BY	NA	
SCALE: 1:10,000	HYDRO SUPPORT DATA BY	Charles Parker	Apr, 1973
	CHECKED BY	Richard R. White	Apr, 1973
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	Richard R. White	Apr, 1973
6. APPLICATION OF FIELD EDIT DATA	BY	G. Vanderhaven	Mar, 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	Feb, 1977
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	E.T. CATOR	MAY 1977

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B
(3-72)

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

TP-00320

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC-8 "E"

TIDE STAGE REFERENCE
- [X] PREDICTED TIDES
- [ ] REFERENCE STATION RECORDS
- [ ] TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
(CI) Color Infrared
(C) COLOR
(P) PANCHROMATIC
(I) INFRARED

TIME REFERENCE
ZONE: Eastern — [XX] STANDARD
MERIDIAN: 75 W. — [ ] DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
72E(CI) 1663-1666	Apr 18,1972	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 mean low water line was compiled, as 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
No survey	TP-00321	TP-00324	No survey

REMARKS

NOAA FORM 76-36C
(3-72)

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

TP-00320

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		J.W. Davis	Aug, 1973
2. HORIZONTAL CONTROL	RECOVERED BY	J.W. Davis	Aug, 1973
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	NA	
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	J.W. Davis	Aug, 1973
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION, ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☐ NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	J.W. Davis	Aug, 1973
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS *(Clarification of details)*

72E(C1) 1666

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 Ozalid
1 Field Edit Report
1 Film Ozalid
2 Form 526 Recovery Notes
2 Form 76-40 Landmarks and Aids

NOAA FORM 76-36C
(3-72)

☆U. S. GOVERNMENT PRINTING OFFICE: 1973--768074/1057 REGION NO. 6

NOAA FORM 76-36C
(3-72)

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

TP-00320

HISTORY OF FIELD OPERATIONS

1. [X] FIELD INSPECTION OPERATION [ ] FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R.D. Olson	Oct, 1972
2. HORIZONTAL CONTROL	RECOVERED BY	R.D. Olson	Oct, 1972
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	R.D. Olson	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	None	
	LOCATED *(Field Methods)* BY	None	
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION: [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME
72E(C1)1666	0X, 1959 OCCOQUAN DISTRIC PENAL INSTITUTE STANDPIPE, 1959

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION DESIGNATION

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 [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] 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

NOAA FORM 76-36C
(3-72)

☆U. S. GOVERNMENT PRINTING OFFICE: 1973--768074/1057 REGION NO. 6

NOAA FORM 76-36D
(3-72)

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

TP-00320

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	April, 1973	Class III manuscript	June 8,1973	June 6,1973
Field edit applied compilation complete	March, 1975	Class I manuscript	April 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		Jul 16,1975	Landmarks to be deleted
1		Jul 16,1975	Landmarks to be charted
1		Jul 16,1975	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

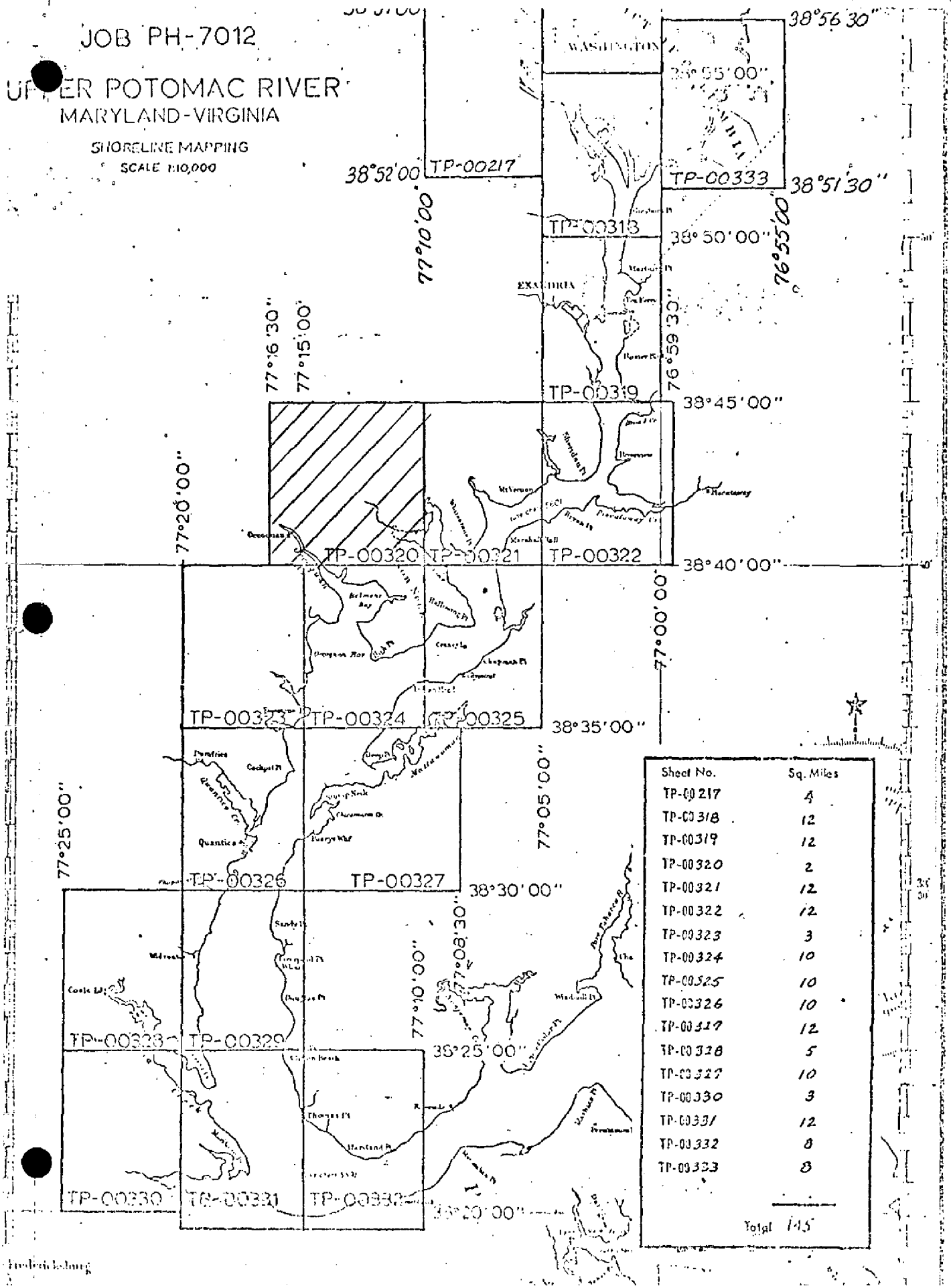
1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☐ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS 76-40 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:

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)*

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH- _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL

☆U. S. GOVERNMENT PRINTING OFFICE: 1973--778075/1077 REGION NO. 6



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

Fredericksburg

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 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 (NOAA)
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	8.33	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	8.66	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 ....

8.66
4.26
4.40 above MLW

Subtract 4.26′ to refer to MLW

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

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°57'00" to 38°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.

2

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

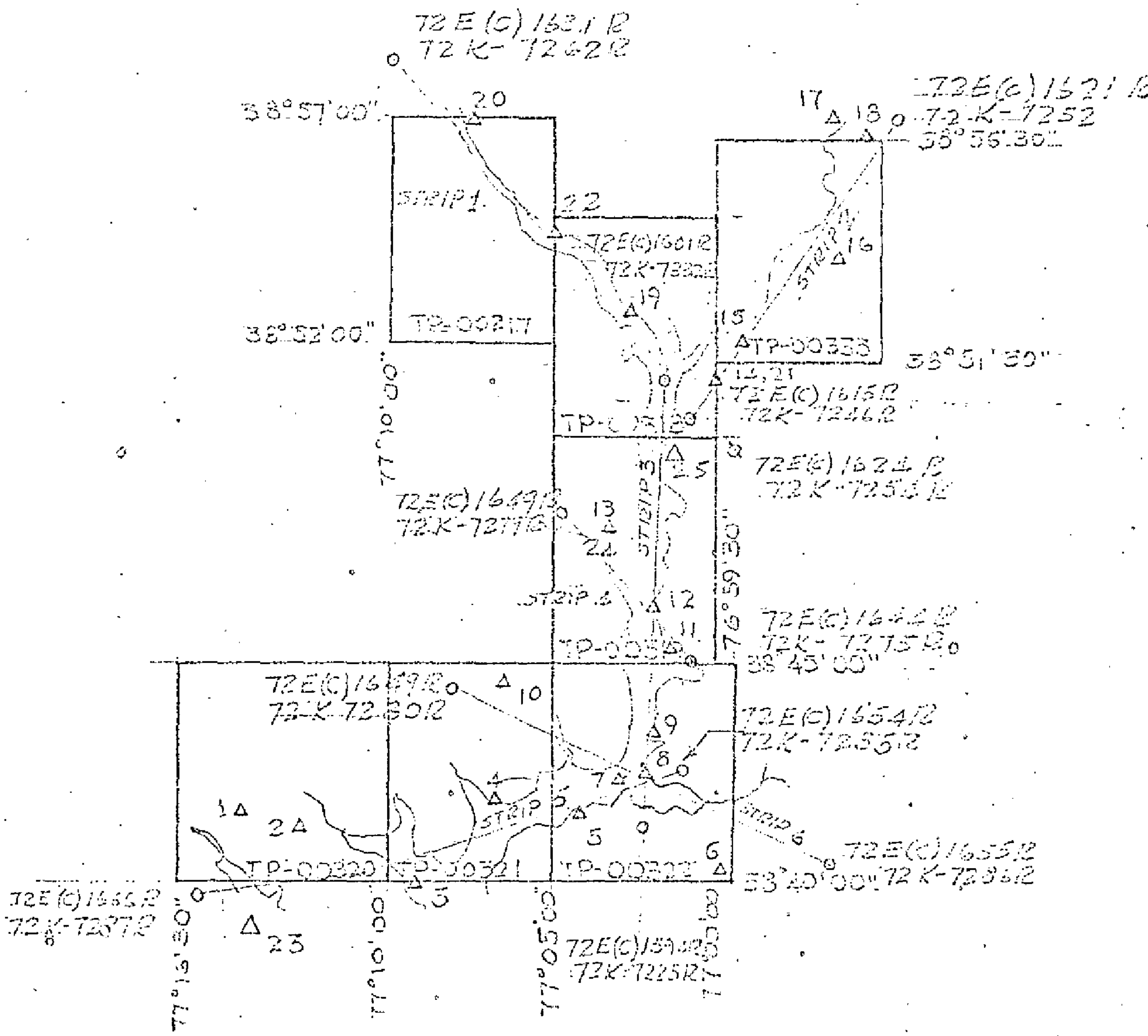
JOB PH-7012 PART 2

UPPER POTOMAC RIVER

MARYLAND-VIRGINIA

SHORELINE MAPPING

SCALE 1:10000



LEGEND

△ HORIZONTAL CONTROL (USED IN BRIDGING)

○ 1:50,000 SCALE COLOR INFRARED (FOR BRIDGING)

○ 1:30,000 SCALE BLACK & WHITE INFRARED

KEY TO CONTROL ON PAGE 2

8-d

JOB PH-70-2

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 1925
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. 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 WASHINGTO MASONIC NAT. MEMORIAL 1932
25. BELLEVUE .D.C. Fire Dept. Training Center TANK 1970

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-00320	PH-7012	N.A. 1927	Coastal Mapping Div. (Norfolk)

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	REMARKS
OX, 1959	G.P.G-14477 P. 1 VA		x= y=	ϕ 38 40 52.109 λ 77 14 06.970	1606.8 243.3 168.5 1281.8
OCCOQUAN DISTRICT PENAL INSTITUTE STANDPIPE, 1959	G.P.G-14477 P. 14 VA		x= y=	ϕ 38 41 14.171 λ 77 14 22.799	437.0 1413.1 551.0 899.1
			x= y=	ϕ λ	
			x= y=	ϕ λ	
			x= y=	ϕ λ	
			x= y=	ϕ λ	
			x= y=	ϕ λ	
			x= y=	ϕ λ	
			x= y=	ϕ λ	
			x= y=	ϕ λ	

COMPUTED BY: A. C. Rauck, Jr.	DATE: 2/20/73	COMPUTATION CHECKED BY: C. E. Blood; A. C. Rauck, Jr.	DATE: 2/21 & 3/26/73
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-00320

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter using 1:30,000 scale color infrared photographs. Photography 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:

Copies of Form 76-40 were forwarded to the field editor for additions, deletions and confirmations.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See the attached Form 76-36b, Item No. 5 of the Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following U. S. Geological Survey Quadrangles; Fort Belvoir, Virginia-Maryland, scale 1:24,000, dated 1965, photorevised 1971 and Occoquan, Virginia, scale 1:24,000, dated 1966, photorevised 1971.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean Survey charts: 101SC, scale 1:40,000, Edition 15, dated December 30, 1972, and 560, scale 1:40,000, Edition 32, dated February 26, 1972.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

C. L. Shrader for

Charles Parker
Cartographic Aid
April, 1973

Approved:

Albert C. Rauck Jr.

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

ADDENDUM TO COMPILATION REPORT

TP-00320

FIELD EDIT

Field edit was adequate.

Fix No. 3 does not plot in spotted position when using angles as given. However, assuming signal No. 393 to be the center object and signal No. 395 to be the left object position plots just northeast of that shown on film ozalid. The same is true for Fix No. 4.

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7012 (Potomac River)

TP-00320

Colchester

Giles Run

Harbor View

Mason Neck

Massey Creek

Occoquan

Occoquan River

Pohick Bay

Pohick Creek

South Branch

Springfield Farms

Wagner Point

Approved by:

Staff Geographer-C5x2
Chas. E. Harrington

NOAA FORM 75-74
(2-74)

U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-10363
TP-00320

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

40. REVIEWER
Richard R. White
Richard R. White 4/3/73

SUPERVISOR, REVIEW SECTION OR UNIT
Albert C. Rauck Jr.
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 A.L. Shands for G. Vanderhaven Mar. 1975

SUPERVISOR Albert C. Rauck Jr.
A. C. Rauck, Jr.

Reviewer: A.L. Shands Mar. 1975

43. REMARKS A.L. Sh

SUPERSEDES C&GS FORM 1002 WHICH MAY BE USED UNTIL EXISTING STOCK IS DEPLETED.

FIELD EDIT REPORT

TP-00320

Upper Potomac River, Md.-Va.

PH-7012

August 1973

51. METHODS

All field edit work was done under the instructions of Photo-Hydro support and field edit, OPR-409-742-73, Potomac River, Maryland-Virginia, dated January 9, 1973, and as amended Feb. 15, 1973.

A visual inspection and verification was made of all shoreline and alongshore features. Details are indexed on the field edit ozalid in violet to indicate additions and in green to indicate deletions.

52. ADEQUACY OF COMPILATION

Compilation was generally adequate in shoreline delineation and alongshore features except as noted on the field edit ozalid. The marsh areas at the mouth of Pohick Creek were not compiled correctly and are delineated on the mylar film ozalid.

54. RECOMMENDATIONS

None.

56. GEOGRAPHIC NAMES

No discrepancies in geographic names were found while editing this sheet.

57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

Only one landmark is recommended for charting. It is a red brick smokestack located on the east bank of the Occoquan River. The Occoquan District Penal Institute Standpipe, 1959, should be deleted from the chart for it is not of landmark value.

No nonfloating aids to navigation exist in the area covered

by this sheet except those privately maintained in Occoquan River.

58. MISCELLANEOUS

All times mentioned on the field edit ozalid refer to Greenwich Mean Time.

Respectfully Submitted,
James W. Davis
James W. Davis
LTJG. NOAA
Chief, Photo Party 61

orig. 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

~~NON-FLOATING 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)

☐ TO BE CHARTED
☐ TO BE REVISED
☒ TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Div. AMC- Norfolk, Va.	Virginia	Potomac River	Mar. 1975

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
409	Ph-7012	TP-00320	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 LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
STANDPIPE	(Occoquan District Penal Institute, Standpipe, 1959) --Its visibility is very poor due to surrounding trees.	38-41	14.171 437.0	77-14	22.799 551.0	72E(C)(I)1666 Apr. 18, 1972	No use as a landmark July 19, 1973	560 101SC
	There is no evidence that this object had ever been charted as a LDMK A.L. Shands, Final Reviewer							

142

ACR Form

orig. 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

NONFLOATING AIDS [redacted] 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)

☒ TO BE CHARTED
☐ TO BE REVISED
☐ TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Div. AMC- Norfolk, Va.	Virginia	Potomac River	Mar. 1975

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
409	Ph-7012	TP-00320	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 LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
DAYBEACON	Occoquan River Daybeacon 1 add	38-40	32.20 993	77-15	09.06 219		F-4-8-L July 10, 1973	560 101SC
DAYBEACON	Occoquan River Daybeacon 2 revise	38-40	31.36 967	77-15	07.92 191		" "	" "
DAYBEACON	Occoquan River Daybeacon 3 add	38-40	33.63 1037	77-15	09.76 236		" "	" "
DAYBEACON	Occoquan River Daybeacon 4 add	38-40	32.43 1000	77-15	08.52 206		" "	" "
DAYBEACON	Occoquan River Daybeacon 5 add	38-40	35.48 1094	77-15	10.71 259		" "	" "
DAYBEACON	Occoquan River Daybeacon 6 add	38-40	33.73 1040	77-15	09.02 218		" "	" "
DAYBEACON	Occoquan River Daybeacon 8 add	38-40	35.87 1106	77-15	10.05 243		" "	" "

ACR FM

orig. 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

[redacted] 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)

☒ TO BE CHARTED
☐ TO BE REVISED
☐ TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Div. AMC- Norfolk, Va.	Virginia	Potomac River	Mar. 1975

The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
409	Ph-7012	TP-00320	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 LATITUDE ° ′	POSITION LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	POSITION LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	METHOD AND DATE OF LOCATION FIELD	CHARTS AFFECTED
STACK	Brick. Ht.=119(elev. not given)	38-40	55.85 1722	77-15	16.38 396	72E(C)(I)1666 April 18,1972	V-Vis. July 10,1973	560 101SC

14c.

REVIEW REPORT TP-00320

SHORELINE MAP

February 25, 1977

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 through 65 is submitted with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with Topographic Surveys T-5759, 1:10,000 scale, dated 1938 and T-5760, 1:10,000 scale, dated 1939. A catwalk and two dikes are shown on T-5760 in the Occoquan River, but are not visible on the photographs. They are shown on the comparison print in blue pencil.

In the area compared, TP-00320 supersedes T-5759 and T-5760 for nautical chart construction purposes. T-5759 and T-5760 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 Fort Belvoir, Virginia-Maryland, 1:24,000 scale, dated 1965 and Occoquan, Virginia, 1:24,000 scale, dated 1966. Each were photorevised in 1971. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with Preliminary Sounding Overlays H-9292 (742-10-3-73) and H-9349 (742-10-4-73). Two rocks located in the Occoquan River are positioned on the hydrographic survey but are not visible on the photography. The field editor submitted no data concerning them. They 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. A pile charted on the northshore of Pohick Bay and a bluff charted on the southshore were recommended for deletion by the field editor. These features are shown on the comparison

print in red pencil. They are not visible on the photographs.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the Project Instructions and meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted by:

Arnold L. Shands

Arnold L. Shands
Cartographer

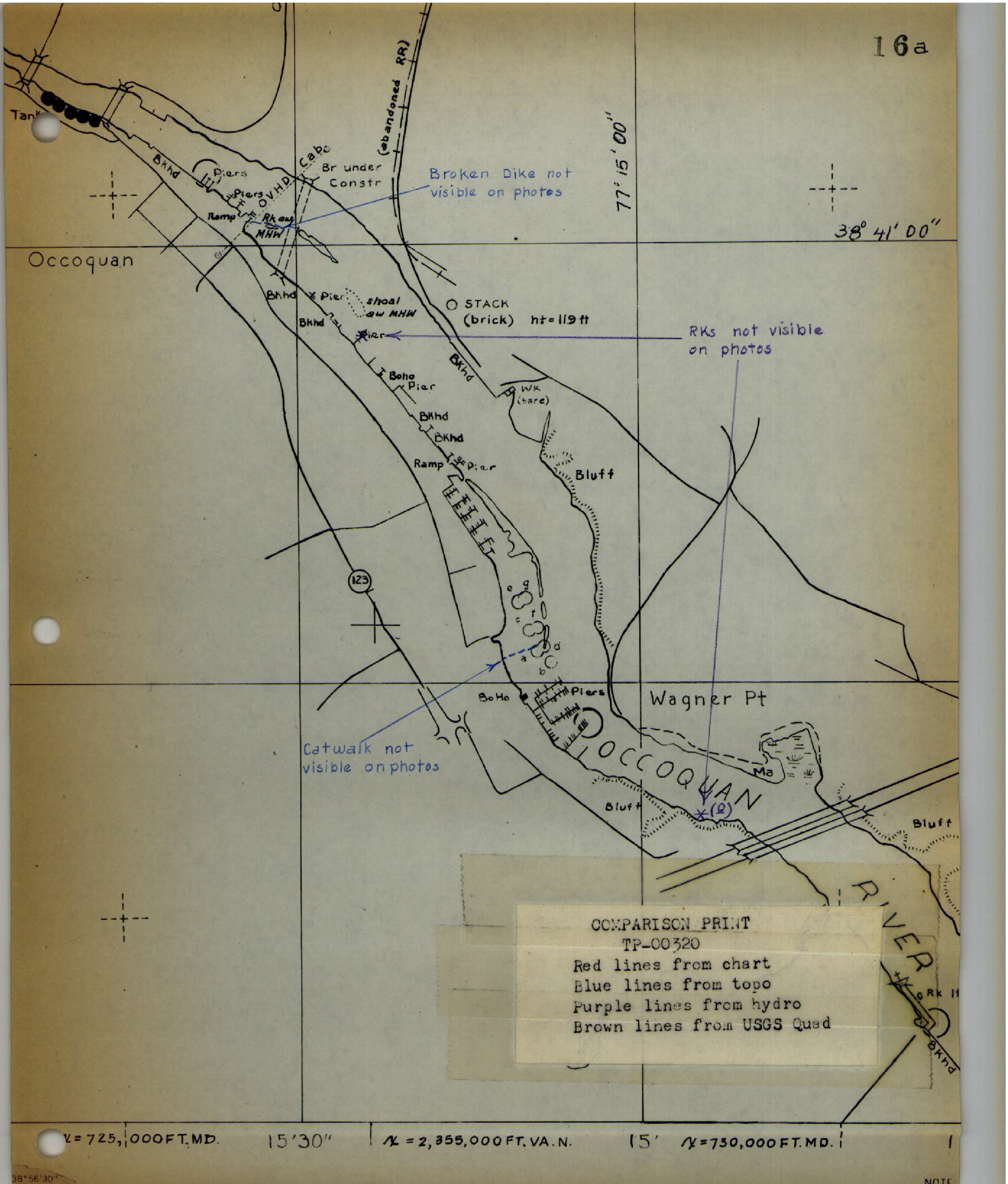
Approved by:

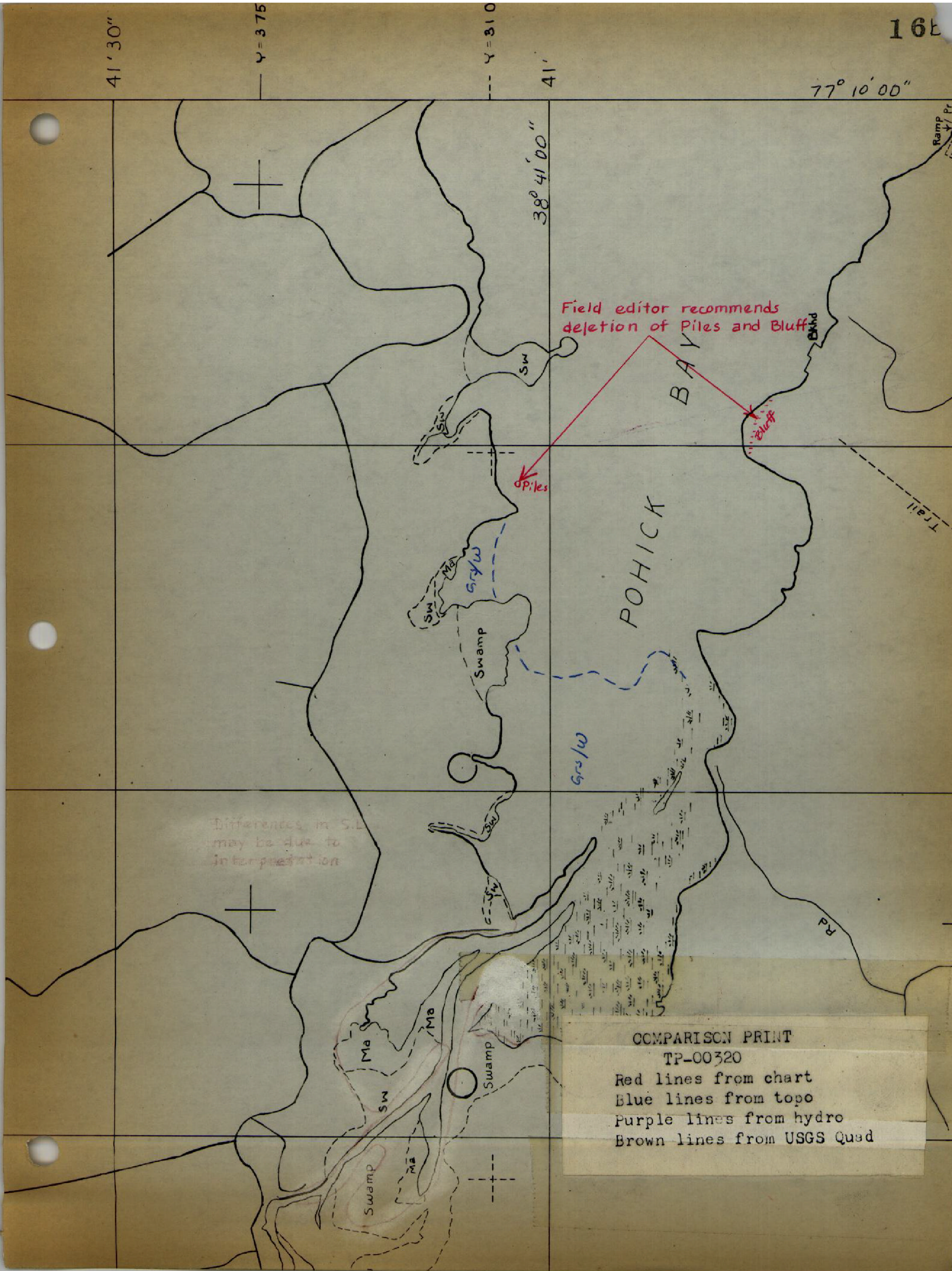
Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division


Tank
Bkhd
Piers
Piers
OVHD Cab
Br under Constr
(abandoned RR)
Broken Dike not visible on photos
77° 15' 00"
38° 41' 00"
Ramp
Rk aw MHW
Occoquan
Bkhd
Pier
shoal aw MHW
O STACK (brick) ht = 119 ft
Bkhd
Pier
RKs not visible on photos
Bkhd
Boho
Pier
Wk (bare)
Bkhd
Bkhd
Ramp
Pier
Bluff
123
BoHo
Piers
Wagner Pt
Catwalk not visible on photos
OCCOQUAN
Ma
Bluff
(2)
Bluff
RIVER
Rk
Bkhd
COMPARISON PRINT
TP-00320
Red lines from chart
Blue lines from topo
Purple lines from hydro
Brown lines from USGS Quad
X = 725,000 FT. MD.
15'30"
Y = 2,355,000 FT. VA. N.
15'
X = 730,000 FT. MD.
38°56'30"
38°55'00"
NOTE:
plot pc


41'30"
Y=375
Y=310
41'
77° 10' 00"
38° 41' 00"
Field editor recommends deletion of Piles and Bluff
Piles
Bluff
Bkhd
Ramp
Pr
POHICK
BAY
Trail
Rd
Sw
Ma
Swamp
Grs/W
Differences in S.L may be due to interpretation
COMPARISON PRINT
TP-00320
Red lines from chart
Blue lines from topo
Purple lines from hydro
Brown lines from USGS Quad

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00320

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	A Full ~~Part Before~~ After Verification Review Inspection Signed Via Drawing No. 20
12289 (560)	2-1-79	Bill Wanless	A Jo'c 5-79 ~~Full~~ Part ~~Before~~ A After Verification Review Inspection Signed Via Drawing No. 43
12289 (560)	6-20-79	M. PANAS	Full Part Before After Verification Review Inspection Signed Via Drawing No. 43 (ADEQUATELY APPLIED)
			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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			Full Part Before After Verification Review Inspection Signed Via Drawing No.