T-12954 THRU T-12958

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

PH6609

Type of Survey Shoreline T-12954 thru T-12958

Field No. Office No. Class III

T-12954 is Class II

LOCALITY

State Maryland

General locality Severn River

Locality Annapolis

19 65

CHIEF OF PARTY

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087

T-12954 THRU T-12958

(2)

FORM C&GS-181a
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-12660 and 12661, T-12954 thru 12958

PROJECT NO. (II): PH-6609, Severn River, Maryland	
FIELD OFFICE (II): Detached field party	CHIEF OF PARTY: J. K. Wilson
PHOTOGRAMMETRIC OFFICE (III): Rockville, Maryland	OFFICER-IN-CHARGE: J. E. Waugh

INSTRUCTIONS DATED (II) (III):

July 12, 1965, Job PH-6609, Aerotriangulation, Severn River, Md.

July 15, 1965, Job PH-6609, Compilation, Severn River, Md.

METHOD OF COMPILATION (III):

Wild B-8 Stereoplotter

MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
12956, 12957, 12958 1:5,000	1:5,000
T-12954, 12955, 12660, 12661 1:10,000	1:10,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
July 1965	

APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
		MAR. 1977

GEOGRAPHIC DATUM (III):	VERTICAL DATUM (III):
N.A. 1927	MEAN SEA LEVEL EXCEPT AS FOLLOWS: *Elevations shown as (25) refer to mean high water* *Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water*

REFERENCE STATION (III):

Annapolis Naval Academy Chapel, Spire, 1933

LAT.:	LONG.:	
38° 58' 53.211"	76° 29' 12.130"	[X] ADJUSTED [ ] UNADJUSTED

PLANE COORDINATES (IV):		STATE	ZONE
y = 945,916.55	x = 418,528.83	Maryland	----

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

(3)

FORM C&GS-181b
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-12660 and T-12661, T-12954 thru T-12958

FIELD INSPECTION BY (II): E. W. Hartford Horizontal control identification for bridging *	DATE: July 1965
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Time of photography except for T-12954 which has shoreline inspection on bridging contacts done during October 11 thru 22, 1965, by R. S. Tibbetts.	
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree — T-12956, 57, 58 T-12954, 55, T-12660, 61	DATE 7/21/65 7/22/65
PROJECTION AND GRIDS CHECKED BY (IV): R. Glaser	DATE 7/22/65
CONTROL PLOTTED BY (III): J. B. Phillips M. C. Webber	DATE 7/26/65
CONTROL CHECKED BY (III): M. C. Webber J. B. Phillips	DATE 7/26/65
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): W. Heinbaugh	DATE Aug. 1965
STEREOSCOPIC INSTRUMENT COMPILATION (III): Wild B-8 — PLANIMETRY J. B. Phillips, H. Lucas, J. C. Richter, M. C. Webber	DATE Aug. 1965
CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): H. Lucas, J. B. Phillips, J. C. Richter, M. C. Webber	DATE May 1966 Aug. 1965
SCRIBING BY (III):	DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): unknown	DATE

REMARKS: *Robert S. Tibbetts field inspected the area covered by T-12954 in October 1965

USCOMM-DC 16276B-P61

(4)

FORM C&GS-181c
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-12660 and T-12661, T-12954 thru T-12958

CAMERA (KIND OR SOURCE) (III):

Wild RC-8, 6-inch focal length

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65-S-4990-5003	7/1/65	12:10-12:13	1:15,000	0.4 above MLW
65-S-5005-5017	7/1/65	12:16-12:20	1:15,000	0.4 above MLW
65-S-5019-5031	7/1/65	12:22-12:25	1:15,000	0.4 above MLW
65-S-7535-7538	9/2/65	10:29-10:30	1:30,000	.08 above MLW
65-S-7548-7551	9/2/65	10:38-10:39	1:30,000	.08 above MLW
65-S-5036-5042	7/1/65	12:39-12:42	1:30,000	0.3 above MLW

TIDE (III)

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	Baltimore, Maryland			
SUBORDINATE STATION:	Annapolis		0.9	1.0
SUBORDINATE STATION:	Bay Ridge		0.8	1.0

WASHINGTON OFFICE REVIEW BY (IV): J. B. Phillips — DATE: November 1976

PROOF EDIT BY (IV): — DATE:

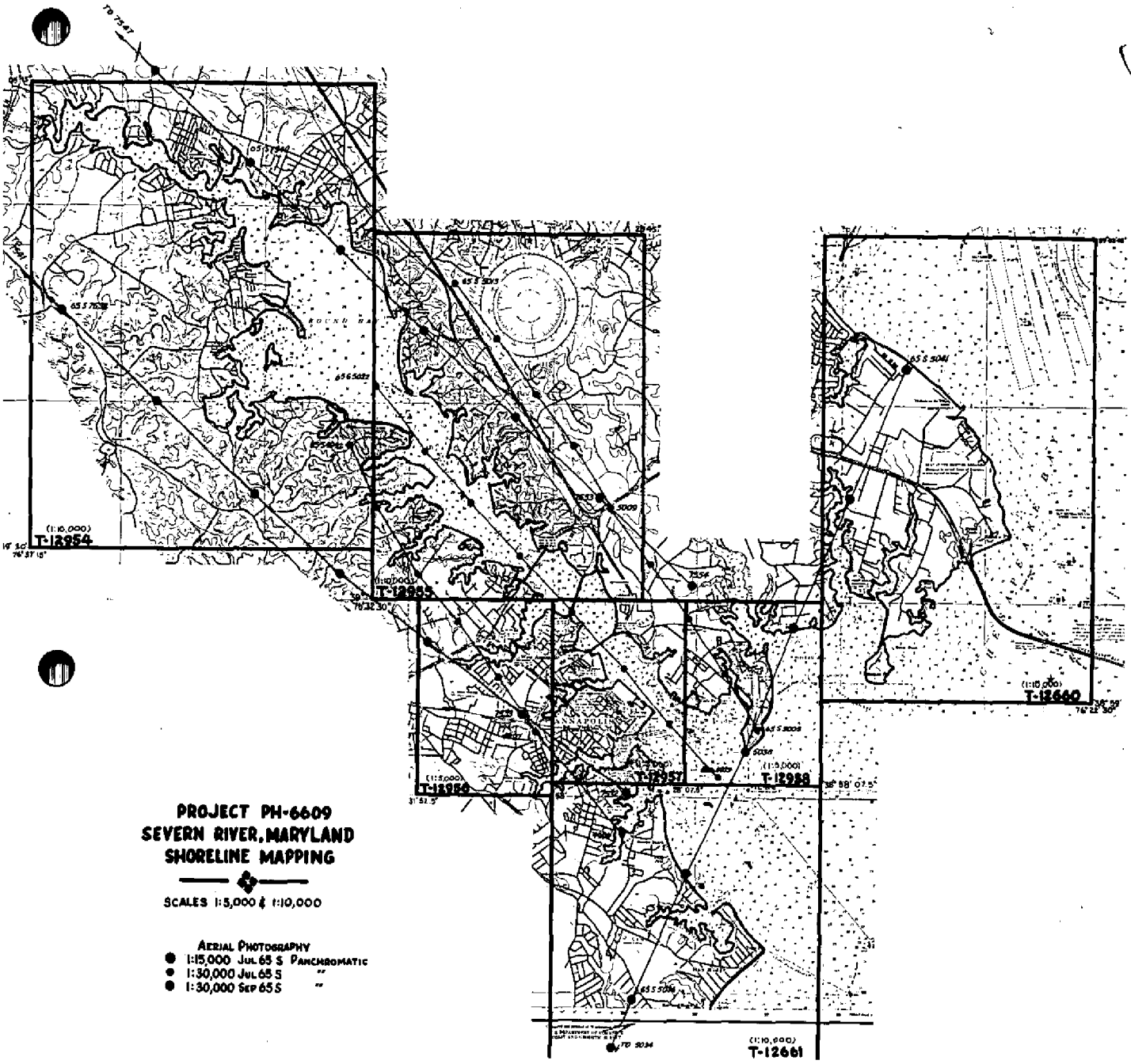
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): — RECOVERED: — IDENTIFIED:

NUMBER OF BM(S) SEARCHED FOR (II): — RECOVERED: — IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:



PROJECT PH-6609
SEVERN RIVER, MARYLAND
SHORELINE MAPPING

SCALES 1:5,000 & 1:10,000

AERIAL PHOTOGRAPHY
- 1:15,000 JUL 65 S PANCHROMATIC
- 1:30,000 JUL 65 S "
- 1:30,000 SEP 65 S "

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT
T-12660 thru T-12661 and T-12954 thru T-12958

Shoreline maps T-12660 thru T-12661 and T-12954 thru T-12958 are the seven maps that make up project PH-6609. These maps cover the Severn River, Maryland, from its mouth south of Annapolis north to latitude 39°05'15". These maps were compiled on the Wild B-8 stereoplotter in advance of hydrographic surveys to be made in the area. The field operations preceding compilation consisted of the recovery of horizontal control for stereobridging with the exception that field inspection of shoreline,bulkheads, piers, groins, etc. and the location of hydrographic signals was provided for only on T-12954. Field data was also provided for location of fixed aids on T-12954 and T-12957. The B-8 compilations were done at a scale of 1:5,000 for T-12956 thru T-12958 and a scale of 1:10,000 for T-12954 thru T-12955 and T-12660 thru T-12661. The three 1:5,000 scale maps cover Annapolis and vicinity. None of the maps are field edited. The Descriptive Report for the seven maps of the two separate number sequences will be registered under one combined report. One copy of the combined report will be filed under T-12954 thru T-12958 and a duplicate copy will be filed under T-12660 thru T-12661.

FIELD REPORT

PH-6609

Location of Fixed Aids to Navigation

In accordance with instructions dated July 9, 1965, fixed aids to navigation were located during the months of July and August 1965.

All fixed aids in Maps T-12954 and T-12957 along with the Eastport Harbor Lights 1 and 3 and Greenbury Point Shoal Light were located either by triangulation or photogrammetric methods.

Photo points are shown on the following photographs:
Contact field prints 65-S-4990, 4999, 5005, 5020, 5021

Greenbury Point Shoal Light is identified on contact print 56-S-5037. The two lights at the Naval Academy dock were identified on 3X field ratio print 65-S-5027.

J. J. Fitzgerald
for E. W. Hartford

cc:
CofP 759
NRO

(8)

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
October 22, 1965

General Statement

This report is submitted for the upper portion of the Severn River in Anne Arundel County, Maryland. The work was accomplished during the period of 11 October to 22 October, 1965, on verbal instructions from Messrs. Cravat and Fitzgerald of the Washington office. The 1965 Control Prints of 1:30,000 scale were adequate for the limited amount of field inspection in this portion of the Project.

All horizontal control stations, as indicated on a special horizontal control design prepared by Washington, were recovered and identified.

Triangulation station Manresa 1932 , previously identified on 1:15,000 scale photographs, could be identified on the 1:30,000 photos using the same sub stations.

Triangulation station Arnold RM (MSFC) 1906, previously identified on 1:15,000 scale photographs, could not be identified on the 1:30,000 scale photos using the same sub stations. Two new sub stations were identified for this station.

Hydrographic Stations that were previously located by plane table methods have been pricked on the photographs wherever possible.

Robert S. Tibbetts

RST:epg

Severn River, Maryland
Job PH-6609

Summary of Bridging and
Field Inspection Photography

Contact photos with bridge points:

Strip 1 65-S-5022 thru 5029
Strip 2 65-S-5034 thru 5041
Strip 5 65-S-7532 thru 7541
Strip 6 65-S-7547 thru 7554

Contact prints with horizontal recovery:

65-S-5022
65-S-5024
65-S-5026 thru 5029
65-S-5031
65-S-5037
65-S-5039 with negative

Ratio prints with horizontal recovery:

65-S-4990, 4991
65-S-5014
65-S-5019
65-S-5035 (ratio section)
65-S-5041 (ratio section)

Contact prints with photo points for location of fixed aids to navigation:

65-S-4990
65-S-4999
65-S-5005
65-S-5020
65-S-5021

Aerotriangulation Report
Project PH6609
Severn River, Md. and Vicinity

21. Area Covered

The area covered by this report on Aerotriangulation bridging encompasses the lower Severn River and that portion of the west side of Chesapeake Bay between Sandy Point and Turkey Point, Maryland (T-12955, T-12956, T-12957, T-12958, T-12660 and T-12661).

22. Method

Two strips of photography (65 S 5022 - 65 S 5029) and 65 S 5034 - 65 S 5041) were bridged to extend horizontal control. The former strip of photography was bridged using the C-8 Stereoplanigraph and the latter on the Wild Stereocomparator. Both strips were adjusted by IBM methods and are analysed separately (see diagrams attached).

23. Adequacy of Control

Horizontal control station recovery and associated substitute control stations were adequate to control the bridge within the limits of accuracy required by National Map Accuracy Standards. Several additional control stations were office identified and used as check stations. All substitute control stations held except HORN SS "A". (No reasonable assumption can be made for this failure except that there were more than one burned over areas and the field measurements were made to such an area other than indicated in the sketch and on the photograph) and the 3 point fix to replace Station RIDGE which failed to tie by about 12 feet.

24. Supplemental Data

Not applicable

25. Photography

Photography was adequate as to coverage, overlays and definition.

26. Plotting Coordinates

Plotting coordinates are furnished at both 1:5,000 scale and 1:10,000.

(11)

27. Ratio Prints

The enlargement ratios were determined for all necessary photographs to furnish photographic coverage at both 1:5,000 scale and 1:10,000 scale.

28. Tie Points

All tie points were meaned.

Submitted by:

W. Heinbaugh

W. Heinbaugh

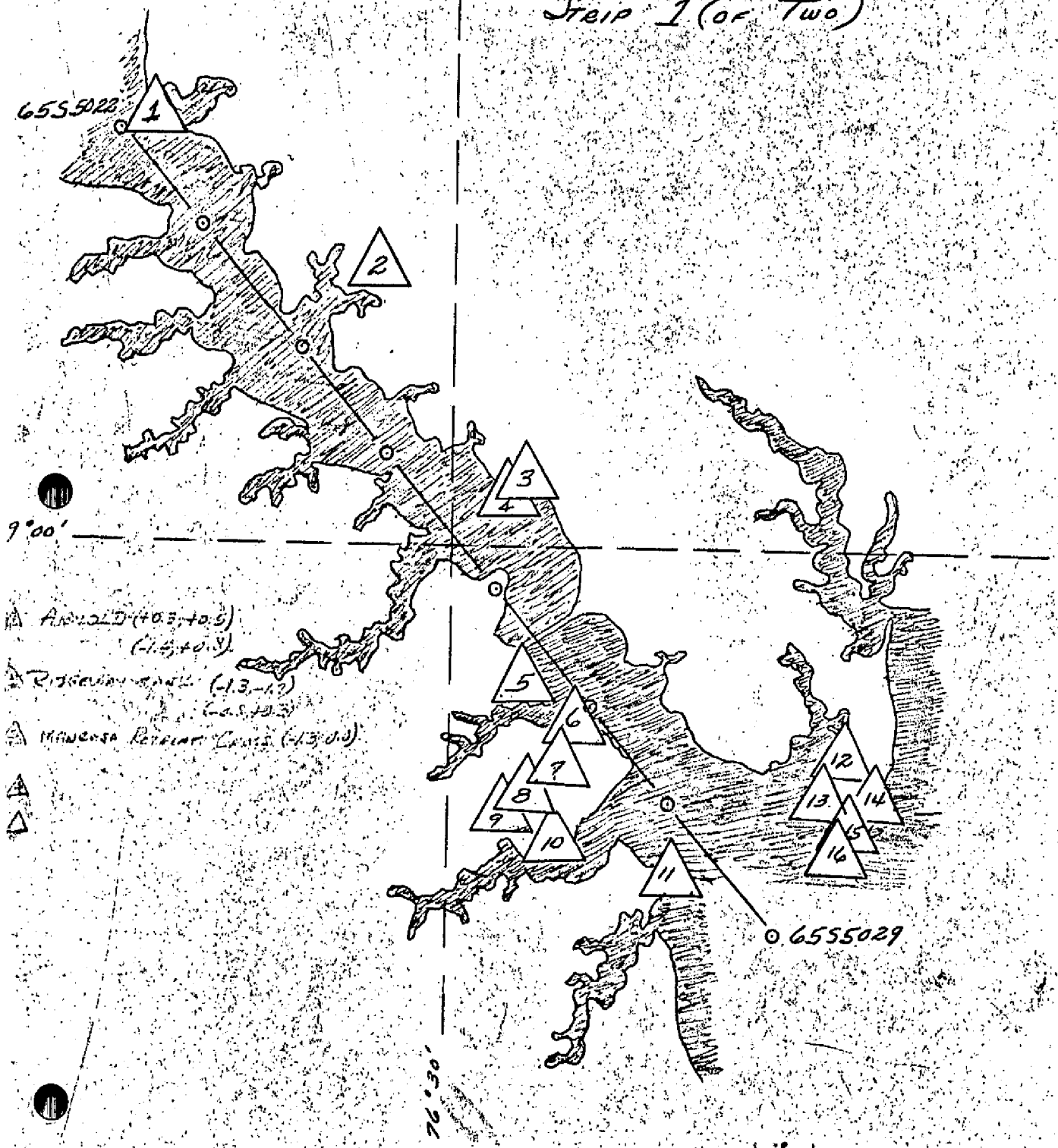
Approved by:

John D. Perrow Jr.

John D. Perrow, Jr.

1. ARNOLD (+0.3, +0.5) (-1.4, +0.5)
2. RIDGEWAY TANK (-1.3, -1.7) (-0.8, +0.3)
3. MANRESA (CROSS) (-1.3, 0.0)
4. MANRESA (+0.7, +0.6) (-0.2, -0.2)
5. Naval Hosp. CUPOLA (-0.2, -1.6)
6. ANNA. Powerhouse Stack (-0.7, +1.7)
7. Acad. Chapel Spire (-1.2, +1.6) (-2.0, +3.7)
8. Anna. State House Spire
9. St. Anne's Catholic Church
10. St. Mary's Catholic Church
11. HORN (+13.4, +18.7) (+1.9, 0.0)
12. Radio Tower #6 (+0.6, -0.4)
13. Radio Tower #8 (-1.4, -1.3)
14. Radio Tower #7 (+1.6, -0.6)
15. Radio Tower #9 (-0.5, -1.5)
16. GREEN (-0.6, -1.3) (-0.5, -2.3)

Aerotriangulation Sketch
Severn River
Strip 1 (of Two)



△ 1 TYDING

2 WHITEHALL CREEK, LARGE HOUSE, FRONT GABLE

3 LABROT MANSION, CENTER CHIMNEY (RED BRICK)

△ 4 HACKETT

5 NAVAL RADIO TOWER No.4

6 RADIO TOWER No.9

△ 7 GREEN

△ 8 ANNAPOLIS NAVAL ACADEMY CHAPEL SPIRE

9 ANNAPOLIS POWERHOUSE STACK

10 ANNAPOLIS STATE HOUSE SPIRE

△ 11 HORN

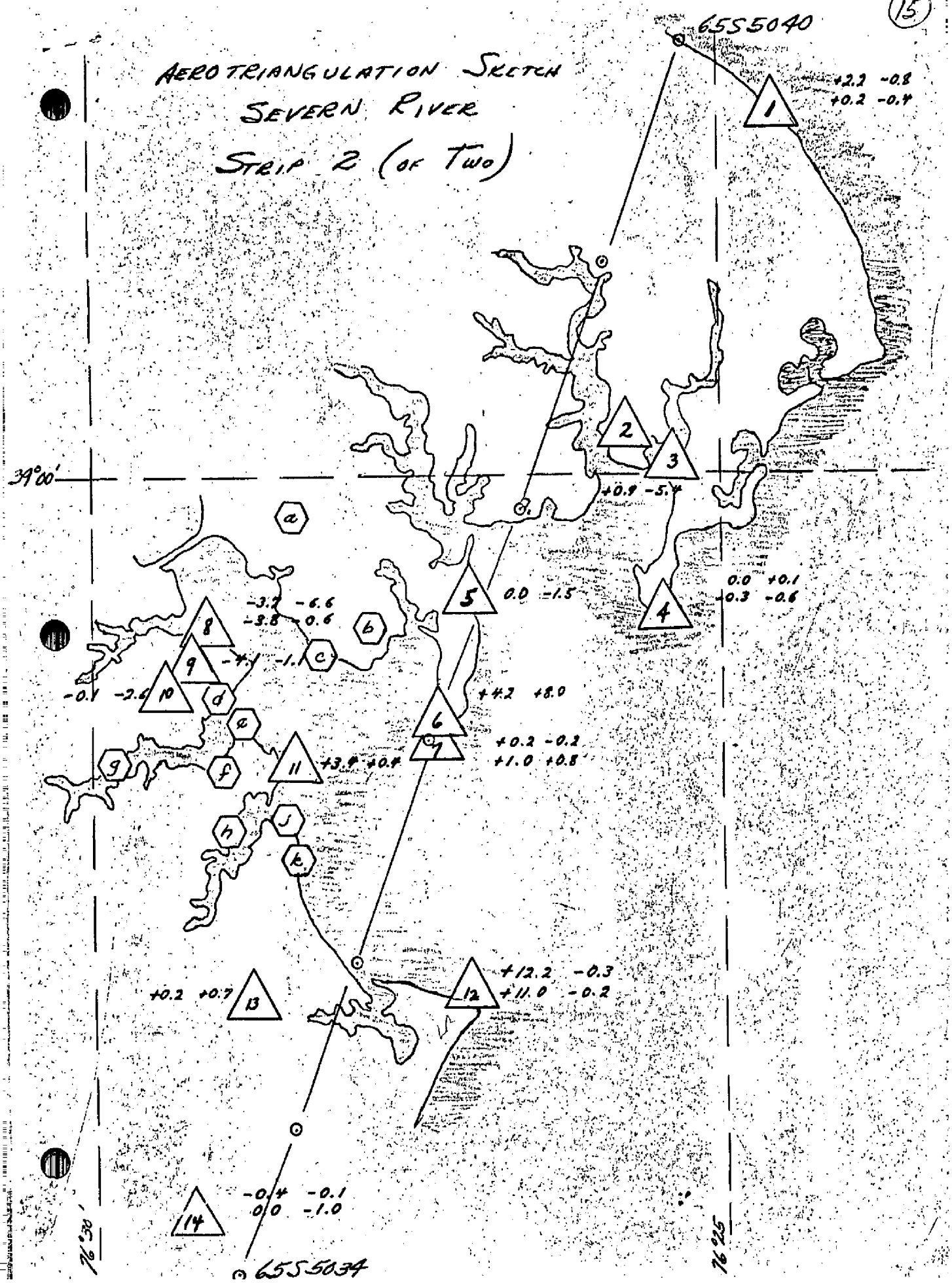
12 RIDGE

△ 13 WANN RADIO MAST

△ 14 JERRY

△ used in adjustment

AEROTRIANGULATION SKETCH
SEVERN RIVER
STRIP 2 (OF TWO)



Aerotriangulation Report
Severn River, Maryland
PH-6609

21. Area Covered

The area covered by this extension of triangulation control encompasses the upper reaches of the Severn River from latitudes 39° 00' 00" to 39° 05' 15" and longitudes 76° 28' 07.5" to 76° 37' 15" (sheets T-12954 and T-12955).

22. Method

Two flight lines of photography were bridged on the stereoplanigraph and adjusted by IBM.

23. Adequacy of Control

The location and number of horizontal control stations were satisfactory to insure adequate bridge adjustment.

The image of ARNOLD RM(MSFC) 1906, Substitute point "B", could not be positively identified on either of the two flight lines and its adjusted value did not meet standards. It has been deleted from the output data.

There is a disagreement between the positions of WEBB, 1933, Substitute points "A" and "B". An adjustment was made using each of these two control stations independently. Either adjustment resulted in satisfactory adjustment of the strip. Substitute point "A" left the smaller bow error in the bridge adjustment and was adopted as final.

24. Supplemental Data

Not applicable

25. Photography

Photography was satisfactory.

26. Coordinates for tie points between the two strips bridged have been averaged.

27. Plotting coordinate values (1:10,000 scale) have been furnished to Compilation.

Respectfully submitted

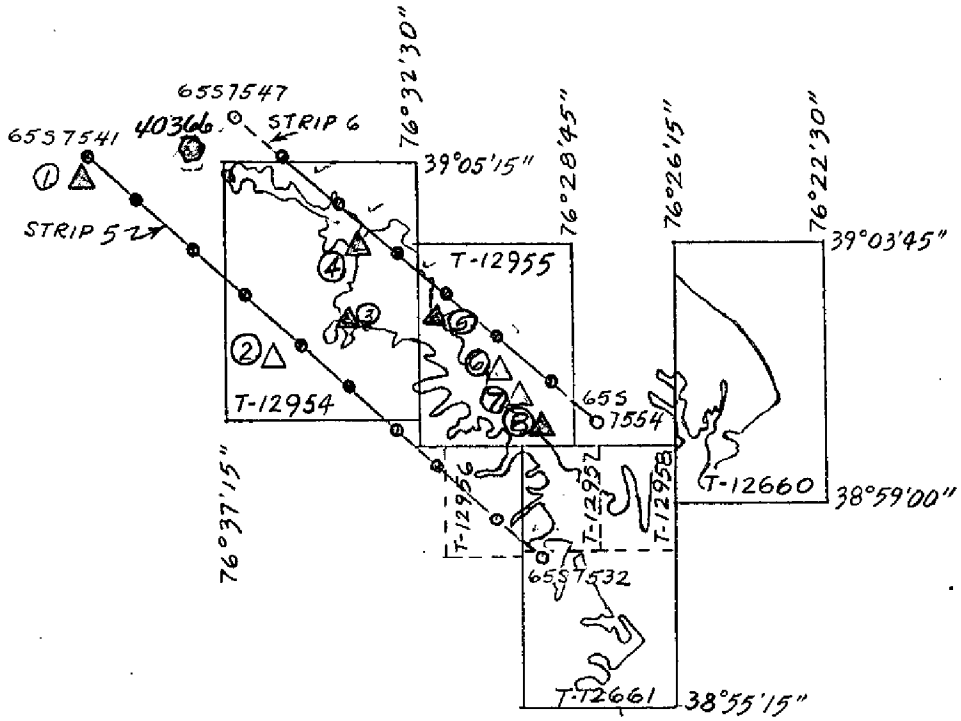
Paul Hawkins

Paul Hawkins

Approved by:

John D. Perrow Jr.

John D. Perrow, Jr.



AEROTRIANGULATION SKETCH
SEVERN RIVER, MARYLAND
Ph-6609

1. WEBB, 1933
2. CROWNSVILLE, 1933
3. HELENA, 1934
4. CEDAR 2, 1934
5. ARNOLD RM(MSFC), 1906
6. STANDPIPE
7. RIDGEWAY TANK, 1933
8. MANRESSA, 1932

(19)

COMPILATION REPORT
T-12954 thru T-12958, T-12660 and T-12661
June 1966

This report covers the compilation of two phases of the following seven manuscripts: at scale 1:10,000 - T-12954, T-12955, T-12660, and T-12661; at scale 1:5,000 - T-12956, T-12957, and T-12958.

The first phase was to provide a base for photo-hydro support for hydrographic operations of the area from about the entrance of the Severn River to Brewer Point (per letter, 6324). The second phase was the delineation of planimetry according to limits provided by the Marine Charts Division.

the letter refered to is missing from the data JSP

This project was compiled on the Wild B-8 Stereoplotter.

The above mentioned manuscripts are classified Advance Manuscripts.

COMPILATION REPORT
T-12954 thru T-12958, T-12660 and T-12661
June 1966

31. Delineation

The compilation was done in two phases. The first was only shoreline and foreshore delineation for photo-hydro support. The second phase was taken from a layout sheet, supplied by the Quality Control and Review Group, indicating limits of interior detail from shoreline (roads and buildings). This was attempted (interior limits), but was not effected completely due to numerous trees obstructing roads, buildings, etc. Delineation was accomplished on the Wild B-8 Stereoplotter using September 2, 1965, "S" photographs.

32. Control

The bridges furnished by the Aerotriangulation Section ~~was~~ were adequate to control models for compilation. The models were leveled on shoreline points. (See bridge for further comment).

33. Supplemental Data

U.S. Geological Survey quadrangles were used for geographic names. Correct geographic names for manuscripts were approved and underlined by the Geographic Branch. The following quads were used: Gibson Island, dated 1954; Round Bay, dated 1956; Annapolis, dated 1957; and South River, dated 1957. All are scale 1:24,000.

34. Contours and Drainage

Inapplicable

35. Shoreline and Alongshore Details

The river is apparently in constant use considering the number of piers, bulkheads, fishtraps, and alongshore buildings. All delineation was office interpreted except sheet T-12954. Field photographs were furnished indicating MHWL, bulkheads, marsh limits, shallow areas, grass in water, groins, and duckblinds.

36. Offshore Details

No unusual problems were encountered compiling offshore details.

37. Landmarks and Aids

Only plotted triangulation stations that are landmarks and/or aids appear on the manuscripts.

38. Control for Future Surveys

None

39. Junctions

A satisfactory junction was made with adjoining surveys. (See layout sketch)

40. Horizontal and Vertical Accuracy

See Bridging Report.

41-45. Inapplicable

46. Comparison ~~to~~ with Existing Maps

None

47. Comparison with Nautical Charts

During compilation a comparison was made with Nautical Chart 566, dated October 5, 1964, and there were no discernible shoreline changes, considering the scale differences. Road patterns, etc., were not compared, as explained in Item 31, due to the fact that many of those features were hidden by tree foliage.

48. Geographic Names

See list of geographic names supplied by the Geographic Branch for each manuscript.

Submitted by:

Henri Lucas

Henri Lucas

Approved by:

K. N. Maki

K. N. Maki
Chief, Compilation Section

NOTES TO THE HYDROGRAPHER

This is to cover manuscripts T-12954 and T-12955 which were compiled to support hydrographic operations in the Severn River, Maryland.

Compilation of these manuscripts was done in accordance with Compilation Instructions (letter 6320).

MHWL offshore information and selection of shoreline passpoints for photo-hydro support have been furnished on T-12955. On T-12954 photo-hydro signals were selected, named, and pricked on field photographs. These signals were photoidentified by aerotriangulation and plotting coordinate values (1:10,000) were furnished for compilation. Photo-hydro signals, numbered 5401 to 5413, were located by B-8 Stereoplotter using field photographs with pricked selections of signals.

None of these signals are described; therefore, only a list of names and/or numbers is submitted.

LIST OF NAMED AND NUMBERED
PHOTO-HYDRO SIGNALS
of T-12954

BAL	HEM	5401	5412
DUNE	GAG	5402	5413
ACT	EBB	5403	5414
COO	DAY	5404	5415
VAL	CAB	5405	5416
TAN	BAG	5406	5417
SAD	ABE	5407	5418
RAG	HOW	5408	5419
QUO	KID	5409	5420
NAT	JOY	5410	5421
MAG	IRK	5411	
KEN	HAG		
JUG	FIN		
IVY	ERT		
GABLE	EGG		
GABLE	AXE		

(24)

T-12956 THRU T-12958
SEVERN RIVER, MD.
PROJECT PH-6609
AUGUST 1965

This project will support hydrographic operations in the Severn River, Md.

Three 1:5000 and four 1:10,000 scale manuscripts cover the area.

These notes are applicable to the three 1:5000 manuscripts.

Notes for the Hydrographer:

The manuscripts were delineated on a 1st phase basis as per paragraph 4, Compilation Instructions, dated July 15, 1965.

This provided for the compilation of the MHW line, offshore information and the selection of shoreline pass points for photo-hydro support.

The ratio photographs were prepared in the usual manner for hydro support. Five office selected signal sites were identified on the photographs as requested. One site, the radar dish on Greenbury Point (T-12958) was not pricked on the photographs as it was not clear what part of the large swivel dish would be sited on by the hydrographer.

Many of the shoreline pass points such as pier corners, can be used as hydrographic signals and should facilitate the photo-hydro party work.

Submitted by:
Peter P. Battley Jr
J. P. Battley, Jr.

Ratioed photographs prepared for hydrographic support are:

65 S 4995 thru 4998
65 S 5005-5006
65 S 5026 thru 5029

T-12955, T-12660 and T-12661
Severn River, Maryland
Project PH - 6609
August 1965

Notes to the Hydrographer:

This project will support hydrographic operations in the Severn River, Maryland. The project includes three 1:5,000 scale manuscripts and four 1:10,000 scale manuscripts.

This report covers three of the 1:10,000 scale manuscripts, (T-12955, T-12660 and T-12661); T-12954 will be bridged and compiled at a later date.

Compilation of these manuscripts was in accordance with the Compilation Instructions, Phase 1, dated July 15, 1965. This provided for the compilation of the MHWL, offshore information and the selection of shoreline pass points for photo-hydro support.

Photographs covering the area were ratioed to the 1:10,000 scale and all centers and pass points appearing on the manuscripts have been shown on the photographs. Two office selected signal sites were identified on the photographs and located on the manuscripts.

The north half of T-12661 is covered by 1:5,000 scale manuscripts, T-12957 and T-12958. These manuscripts were compiled first, reduced to 1:10,000 scale, and all details falling in the area where hydrography will be performed at 1:10,000 were applied to T-12661.

Many of the office selected pass points should be suitable for hydrographic signal sites.

Data furnished includes 2 cronaflex copies of the manuscripts, 3 ozalids and the following cronapaque ratio prints:

65 S 5022 thru 5026
65 S 4994
65 S 5035 thru 5040

Submitted by,
Jacqueline B. Phillips
Jacqueline B. Phillips

Review Report PH-6609

T-12660, T-12661, T-12954 thru T-12958

Shoreline Survey

November 1976

61. General Statement

When the maps were received for final review, the date July 1967 was listed in the legend under the heading, Date of Final Review. There is no other indication that any of the maps were reviewed at that time. The date was apparently listed on the maps in error. Review has changed the date to November 1976, the date of this review.

A field report is furnished for Location of Fixed Aids to Navigation. This report refers to instructions dated July 9, 1965. These instructions are unavailable. The form 76-40 listing the aids to be charted was not furnished with the job data. In the compilation report, item 37, the compiler states only plotted triangulation stations that are landmarks or aids appear on the manuscript.

62. Comparison with Registered Topographic Surveys

T-5343	1:10,000	1934	(on T-12955)
T-5422	1:10,000	1933	(on T-12954)
T-8264	1:20,000	1942-1943	(on T-12956)
T-8265	1:20,000	1938-1942	(on T-12957, T-12958, & T-12661)
T-8271	1:20,000	1942	(on T-12660)

These surveys are superseded by the new maps.

63. Comparison with Maps of Other Agencies

U.S. Geological Survey Quadrangles:

Annapolis	1:24,000 Scale	1957
Round Bay	1:24,000 Scale	1956
South River	1:24,000 Scale	1957
Gibson Island	1:24,000 Scale	1954

64. Comparison with Contemporary Hydrographic Surveys

H-8859	1:5,000	1965	(T-12957 and T-12958)
H-8860	1:10,000	1965	(T-12660 and T-12661)
H-8874	1:10,000	1965	(T-12954 and T-12955)

H-8874 - This survey had not been verified or reviewed. Comparison was made with the penciled smooth sheet and T-12954 and T-12955. On the northern shore of Brewer Point and between Arnold Point and Rays Pond the grass-in-water limit line was removed during review from the Class III manuscript. Soundings indicated the limit to be closer to shore than was shown. Soundings also disproved the shallow line that had been shown offshore from 38°02' and 76°34'. The line has been removed from the photogrammetric manuscript.

H-8859 - Comparison was made with T-12957 and T-12958 and the surveys are in agreement.

H-8860 - Comparison was made with T-12660 and T-12661 and the surveys are in agreement.

65. Comparison with Nautical Charts

12282 (566)	1:25,000	1976
12283 (385)	1:10,000	1976

66. Adequacy of Results and Future Surveys

The maps meet the National Standards of Map Accuracy and comply with Bureau requirements.

Submitted by:

J. B. Phillips

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

November 29, 1976

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6609 (Severn River, Md.)

T-12954

Beehive Beach
Brewer Creek
Brewer Pond
Browns Cove
Carrollton Manor
Cedar Point
Clements Creek
Eaglenest Point
Forked Creek
Herald Harbor
Hopkins Creek
Indian Landing
Kyle Point
Lakeland
Linstead-on-the-Severn
Little Round Bay
Long Point
Mathiers Point
Maynadier Creek
Plum Creek
Point Lookout
Rock Cove
Round Bay
St. Helena Island
Severna Park
Severn River
Sherwood Forest
Stevens Creek
Sullivan Cove
Sunrise Beach
Valentine Creek
West Severna Park
Whitneys Landing
Yantz Creek

Charles Harrington

Charles Harrington, C51x2

November 29, 1976

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6609 (Severn River, Md.)

T-12955

Arnold Point
Asquith Creek
Baltimore and Annapolis (RR)
Brewer Creek
Brewer Point
Chase Creek
Clements Creek
Cool Spring Cove
Cove of Cork
Dreams Landing
Epping Forest
Joyce
Luce Creek
Manresa
Martins Pond
Pines-on-Severn
Rays Pond
Ringgold Cove
Rugby Hall
Saltworks Creek
Severn Forest
Severn Grove
Severn River
Severnside
Swan Point
Winchester
Winchester-on-the-Severn
Winchester Pond

Charles Harrington

Charles Harrington, CGx2

November 29, 1976

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6609 (Severn River, Md.)

T-12956

Admiral Heights

Annapolis

Baltimore and Annapolis (RR)

Bay Ridge Junction

College Creek

Spa Creek

Weems Creek

Weems Creek (locality)

Charles Harrington

Charles Harrington, C51x2

(31)

November 29, 1976

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6609 (Severn River, Md.)

T-12957

Acton Cove
Annapolis
Baltimore and Annapolis (RR)
Biemans Point
Brice Point
College Creek
Eastport
Ferry Point
Horn Point
Horseshoe Point
Meadow Point
North Severn Beach
Pendennis Mount
Severn River
Spa Creek
Sycamore Point
Wardour
Wardour Bluffs

Charles E. Harrington

Charles Harrington, C51x2

November 26, 1976

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6609 (Severn River, Md.)

T-12958

Beechwood on the Burley

Bowdoin Point

Burley Creek

Carr Creek

Carr Point

Chesapeake Bay

Greenbury Point

Hidden Point

Mill Creek

Possum Point

Severn River

Tanglewood

Whitehall Flats

Charles Harrington

Charles Harrington, C51x2

FORM C&GS-161
(3-64)
USCOMM-DC
6659-P64

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- ______ PROJECT NO. ______ SCALE OF MAP ______ SCALE FACTOR ______

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE / LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)
THOMAS POINT SHOAL LIGHTHOUSE 1906	P.C. 106		388,532.61 ✓ 960,451.06 ✓	
FIX (HACKETT)			421,378.82 962,748.69	
SS A 38101			421,304.10 962,730.08	
SS B. 38102 ✓			421,432.30 962,738.21	

COMPUTED BY	DATE	CHECKED BY	DATE

FORM C&GS-164
(3-64)
USCOMM-DC
6659-P64

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- _____ PROJECT NO. PH 6609 SCALE OF MAP _____ SCALE FACTOR _____

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR COORDINATE X / LONGITUDE OR COORDINATE Y	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)
T-12955	P.C.	N.A.	939,487 ✓	
RIDGEWAY, STANDPIPE, 1933	PAGE No. 21	1927	433,916 ✓	
(25101)	P.C.	N.A.	940,241.38 ✓	
RIDGEWAY TANK, 1933	PAGE No. 21	1927	431,148.88 ✓	
SS A. (25102)			940,324.56 ✓	
			431,112.46 ✓	
ANNAPOLIS NAVAL ACADEMY	P.C.	N.A.	945,916.55 ✓	check.
CHAPEL, SPIRE, 1933 (28103) 37105	PAGE No. 21	1927	418,528.83 ✓	✓
SS A. 33112 (27110) 37106			947,100.83 ✓	
			419,868.33 ✓	
NAVAL RADIO TOWER	P.C.	N.A.	955,379.88 ✓	
No. 2, 1932	PAGE No. 50	1927	420,114.55 ✓	

COMPUTED BY _____ DATE _____ CHECKED BY RBK DATE _____

34

FORM C&GS-164
(3-64)
USCOMM-DC
6659-P64

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- _____ PROJECT NO. PH. 6609 SCALE OF MAP _____ SCALE FACTOR _____

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR X COORDINATE / LONGITUDE OR Y COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)
MANRESA, CATHOLIC RETREAT, T-12955	P.C.	N.A.	944,482.60 ✓	
CROSS, 1932 (26105)	PAGE 206	1927	427,276.18 ✓	
WHITEHALL CREEK, LGE HOUSE	P.C.	"	962,192 ✓	
FRONT GABLE, 1932 40111	PAGE 50		426,978 ✓	
LABROT MANSION CENTER 40110	P.C.	"	963,899.18 ✓	
CHIMNEY (RED BRICK), 1932	PAGE No. 50		425,825.90 ✓	
	P.C.	"	941,246.18 ✓	
ANNAPOLIS, STANDPIPE, 1933	PAGE No. 21		417,464.11 ✓	
ANNAPOLIS, ST. MARY'S CATHOLIC (28105)	P.C.	"	945,525 ✓	
CHURCH, SPIRE, 1933	PAGE No. 21		416,178 ✓	
36110	P.C.	"	947,649.55 ✓	
WANN, RADIO MAST 1947	PAGE No. 209		404,335.78 ✓	
~~ANNAPOLIS NAVAL ACADEMY~~	~~P.C.~~	~~"~~	~~945,916.55~~	
~~CHAPEL, SPIRE, 1933~~	~~PAGE No. 21~~		~~418,528.83~~	
ANNAPOLIS, NAV. ACA RAD MAST, 1933	P.C.	"	955,386.96 ✓	
NORTHWESTERLY MAST OF SIX	PAGE No. 21		420,963.08 ✓	
ANNAPOLIS, NAV ACA RAD MAST	P.C.	"	956,350.08 ✓	
SOUTHEASTERLY MAST OF SIX, 1933	PAGE No. 21		418,855.97 ✓	
ANNAPOLIS, STATE HOUSE	P.C.	"	944,641.12 ✓	
SPIRE, 1933-34 (DOME) (27104)	PAGE No. 28		417,502.84 ✓	
37112	P.C.	"	956,229.32 ✓	
RADIO TOWER No 5, 1932	PAGE No. 49		420,107.61 ✓	
GREENBURY PT. BLACK	P.C.	"	955,728 ✓	
WATER TANK, 1932	PAGE No. 206		420,997 ✓	

COMPUTED BY _____ DATE _____ CHECKED BY JRSK DATE _____

(33)

FORM C&GS-164
(3-64)
USCOMM-DC
6659-P64

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- _____ PROJECT NO. PH 6609 SCALE OF MAP _____ SCALE FACTOR _____

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE / LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)
(29104) RADIO TOWER No. 9, 1945 37111	P.C. PAGE 188	N.A. 1927	955,098.21 ✓ 416,615.19 ✓	
GREENBERRY PT. NAVAL RADIO STATION, VERTICAL RADIO MAST, 1957 38110	P.C. PAGE 325	N.A. 1927	952,120.45 ✓ 423,623.05 ✓	
JERRY 1961	Quad 380761 Vol 11 Page 446		943,749.64 ✓ 392,412.69 ✓	
SS A 34101			943,765.87 ✓ 392,328.34 ✓	
SS B 34101			943,720.46 ✓ 392,413.87 ✓	
FIX (RIDGE)	OFFICE COMPUTATIONS		956,216.24 ✓ 403,991.78 ✓	
SS 1			956,198.84 ✓ 404,003.54 ✓	
[illegible] 1945	[illegible]			

COMPUTED BY	DATE	CHECKED BY	DATE
		RSK	

FORM C&GS-164
(3-64)
USCOMM-DC
6059-P64

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- _____ PROJECT NO: _____ SCALE OF MAP: _____ SCALE FACTOR _____

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR X COORDINATE / LONGITUDE OR Y COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD	(BACK)
TYDING, 1932	P.C. PAGE # 49	N.A. 1927	967,832.79 ✓		
			438,336.50 ✓		
SS A 41107			967,810.68 ✓		
			438,298.80 ✓		
SS B 41107			967,820.76 ✓		
			438,347.05 ✓		
BALTIMORE LIGHTHOUSE, 1918	P.C. PAGE 22	N.A. 1927	970,570.90 ✓		
			446,952.05 ✓		
GREEN, 1932	D.C PAGE 28	"	955,058.43 ✓		
			416,346.56 ✓		
SS A 37103 (29105)			955,046.68 ✓		
			416,407.43 ✓		
SS B 37104 (29106)			955,142.47 ✓		
			416,264.74 ✓		
HORN 1910	PC PAGE 7	"	949,305.68 ✓		
			415,211.40 ✓		
SS A 37101 (29108)			949,152.92 ✓		
			415,315.75 ✓		
SS B. 37107 (29109)			949,292.21 ✓		
			415,259.55 ✓		

COMPUTED BY _____ DATE _____ CHECKED BY _____ DATE _____

FORM C&GS-164
(8-64)
USCOMM-DC
6659-P64

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- _____ PROJECT NO. PH 6609 SCALE OF MAP _____ SCALE FACTOR _____

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR X COORDINATE LONGITUDE OR Y COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)
NAVAL RADIO TOWER	P.C.	N.A.	955,369.76 ✓	
No. 3, 1932 (#6)	PAGE No. 50	1927	418,863.94 ✓	
NAVAL RADIO TOWER	P.C.	N.A.	956,235.66 ✓	
No. 4, 1932 38111	PAGE No. 50	1927	420,956.54 ✓	
38112				
ANNAPOLIS, Clock Tower, 1910	P.C.	N.A.	945,801.05 ✓	
	PAGE No. 152	1927	419,382.25 ✓	
ANNAPOLIS, POWERHOUSE,	P.C.	N.A.	946,238.19 ✓	
STACK, 1910 (27106)	PAGE No. 152	1927	419,857.96 ✓	
37110				

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FORM C&GS-1
(3-64)
USCOMM-DC
6659-P64

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- _____ PROJECT NO. P4 6609 SCALE OF MAP _____ SCALE FACTOR _____

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR X COORDINATE / LONGITUDE OR Y COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD	(BACK)
ANNAPOLIS, NAVAL HOSPITAL, (27101) CUPOLA, 1906 (27106)	P.C. PAGE No. 152	N. A. 1927	944,455.08 ✓ 421,202.62 ✓		
ANNAPOLIS, GABLE, WHITE, BETWEEN CHIMNEYS, 1910	P.C. PAGE No. 152	N. A. 1927	947,375 ✓ 424,609 ✓		
RADIO TOWER No. 7, 1945 (29102)	P.C. PAGE 188	N. A. 1927	955,859.12 ✓ 417,705.18 ✓		
RADIO TOWER No. 8, 1945 (29103)	P.C. PAGE 188	N. A. 1927	955,061.16 ✓ 417,662.05 ✓		
ST. MARY CATH. CH. SPIRE (28105)			945,525 416,178		
ST. ANNE'S " " " (28104)			944,053.78 417,383.64		

COMPUTED BY U Geo T. No. 6 DATE CHECKED BY DATE

FORM C&GS-164
(3-64)
USCOMM-DC
6659-P64

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- _____ PROJECT NO. Ph-6609 SCALE OF MAP _____ SCALE FACTOR _____

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	~~LATITUDE~~ OR Y COORDINATE ~~LONGITUDE~~ OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD	(BACK)
MANRESA 1932	P.C. 7	NAD 1927	426,872.68		
			944,113.36		
SS A (26101)			427,002.79		
			944,253.19		
SS B (26102)			427,020.15		
			944,180.42		
1906 ARNOLD RM (MSFC)	P.C. 290		438,378.38		
			932,253.35		
SS A (22101)			438,335.40		
			932,266.69		
SS B (22102)			438,380.10		
			932,226.40		
3 PT FIX (For STATION To Replace Ridge 3610)			403,991.78		
			956,216.24		
SS A 3610V			404,003.54		
			956,198.84		
CHES. BAY Bridge East Tower 1957	P.C. 326		422,732		
			976,268		
CHES. BAY Bridge West Tower 1957	P.C. 326		423,180		
			974,733		

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