

8774

Ring No. 294

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PHOTOGRAMMETRIC SHORELINE

Field No. PH -7(L6) C Office No. T-8774

LOCALITY

State NEW JERSEY, DELAWARE

General locality DELAWARE RIVER

Locality GOOSE POND TO NEW CASTLE

1948

CHIEF OF PARTY

E. L. Jones, Field Office

T. B. Reed, Baltimore Photo. Office

LIBRARY & ARCHIVES

DATE October 4, 1951

8774

DATA RECORD

T- 8774

Quadrangle (II):

Project No. (II): PH-7(46)C

Field Office:

New Castle, Delaware

Chief of Party:

E. L. Jones

Compilation Office:

Baltimore Photogrammetric Office

Chief of Party:

Thos. B. Reed

Instructions dated (II III):

25 March 1946, 19 July 1946

Copy filed in Descriptive

Report No. T- ~~(VI)~~Photogrammetry
Office Files.

Completed survey received in office: 4-22-49

Reported to Nautical Chart Section: April 1949

Reviewed: Aug. 5, 1949

Applied to chart No. 294

Date: 2 Feb. 1949 (partial)

Redrafting Completed:

2 Mar. 1951

Registered: 26 July, 1951

Published: —

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): 1.000

Geographic Datum (III): N.A. 1927

Datum Plane (III): ~~M.S.L.~~ M.H.W.

Reference Station (III): FORT MOTT, 1933

Lat.: 39 36' 13.419" (413.8 m) Long.: 75° 33' 13.810" (329.5m)

Adjusted

~~Unadjusted~~

State Plane Coordinates (VI):

X = 461,348.16 (Del)
1,750,015.01 (NJ)Y = 584,110.01 (Del)
281,827.51 (NJ)

Military Grid Zone (VI)

PHOTOGRAPHS (III)
75th meridian

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
46-D-1464 to 1467 incl.	3/1/46	1205	1:10,000	4.1' above MLW
46-D-1988	3/12/46	1235	1:10,000	1.4' above MLW
46-D-1994 to 1996	" 3/12/46	1255	1:10,000	1.1' above MLW
46-D-2002 to 2007	" 3/12/46	1305	1:10,000	1' above MLW
46-D-2041 to 2048	" 3/12/46	1345	1:10,000	0.6' above MLW

Tide from (III): Actual tide observations at Philadelphia corrected to
'New Castle to Delaware City'

Mean Range: 5.2' Spring Range: 5.7'

Camera: (Kind or source) U. S. Coast and Geodetic Survey single lens
camera. Wide angle, type 'D'—Focal length 12".

Field Inspection by: E. L. Jones

date: April through
September 1946

Field Edit by:

Refer to
7-8751
7-8753

date: 1948

Date of Mean High-Water Line Location (III):

Same as date of photographs supplemented with field inspection obtained
during April--September 1946.

Projection and Grids ruled by (III) T.L.J.

date: Sept. 10, 1946

" " " checked by: T.L.J.

date: Sept. 10, 1946

Control plotted by: Leroy A. Menasack

date: Jan. 14, 1947

Control checked by: George O. Fellers

date: Jan. 14, 1947

Radial Plot by: H.R. Rudolph

date: Sept. 1947

Detailed by: Ruth M. Whitson

date: 7-28-to 8-27-47
9-8- to 10-10-47
10-20 to 10-22-47

Reviewed in compilation office by: Raymond Glaser

date:
10-29 to 11-4-47

~~Elevations on Field Edit Sheet~~

~~checked by:~~

~~date:~~

STATISTICS (III)

Land Area (Sq. Statute Miles): 6

Shoreline (More than 200 meters to opposite shore): 20 statute miles

Shoreline (Less than 200 meters to opposite shore): 33 statute miles
(measured along the center line of stream)

Number of Recoverable Topographic Stations established: 4

photo hydro points
Number of ~~Temporary Hydrographic Stations~~ located by radial
plot: 6

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered
by, (II) Field Party, (III) Compilation Party, or, (VI) the
Washington Office.

When entering names of personnel on this record give the
surname and initials (not initials only).

Remarks:

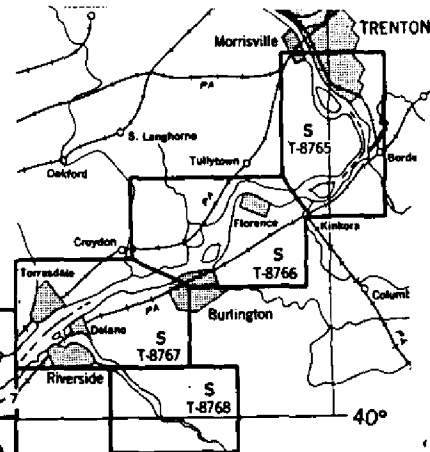
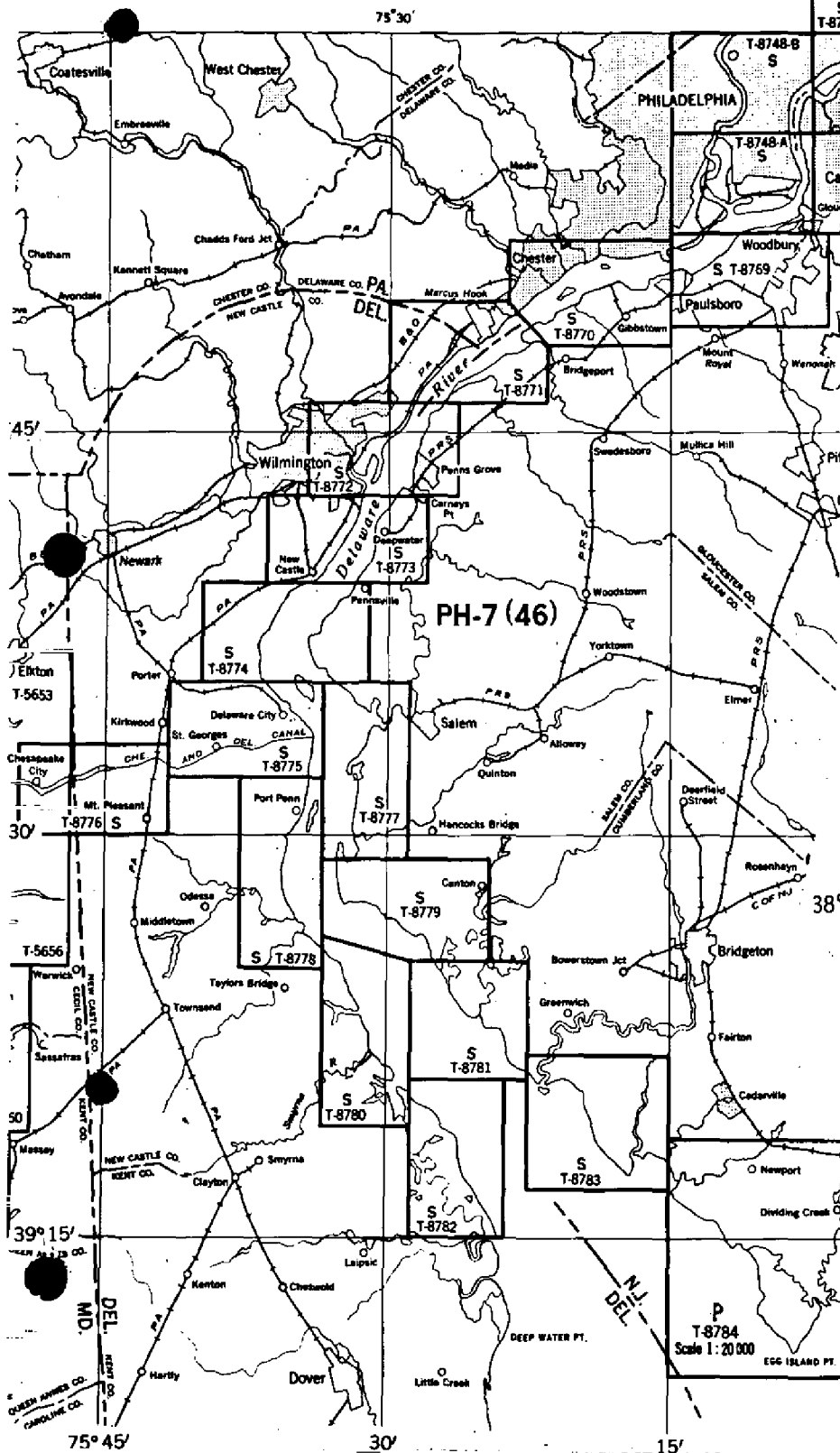
PLANIMETRIC AND SHORELINE MAPPING PROJECTS

PH-7 (46) CS-307 (43)

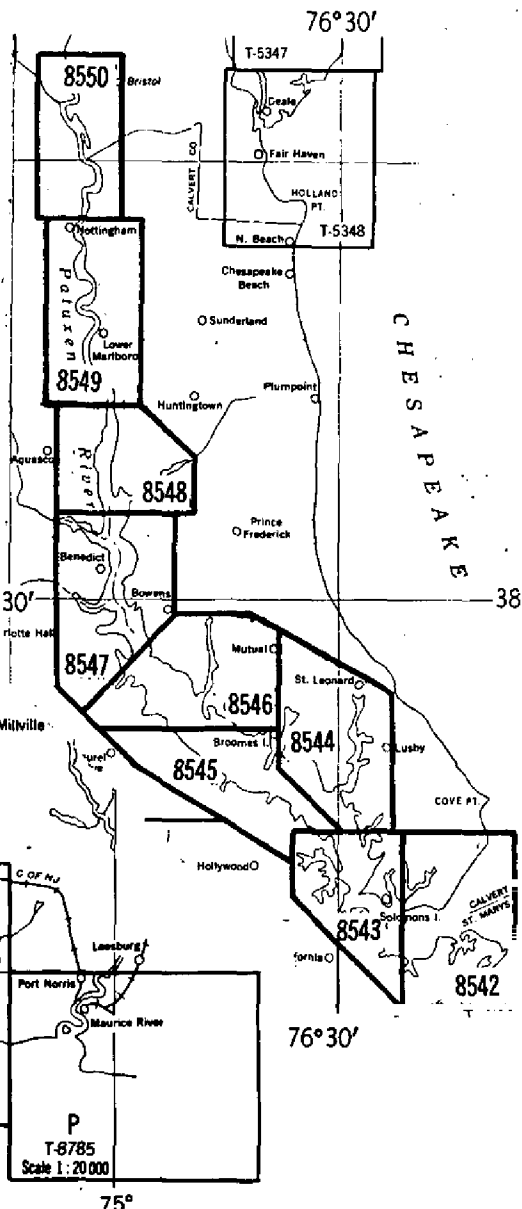
PH-7 (46) DEL - N.J. - PA., Delaware River

(P) Indicates Planimetric Survey

(S) Indicates Shoreline Survey



CS-307 (43) MARYLAND, Patuxent River PLANIMETRIC



FIELD REPORT

SHORELINE MANUSCRIPT, SURVEY NO. T-8774

The area of this shoreline survey is in the area covered by Topographic Surveys Nos. T-8753 and T-8751. For field data covering Survey No. T-8774, refer to the field reports of the above mentioned topographic surveys.

RADIAL PLOT REPORT

PROJECT NO. PH-7 (46)-C

DELAWARE RIVER

SURVEY NO. T - 8774

1. GENERAL DESCRIPTION

Survey No. T-8774 is one of twelve shoreline maps in sub-project No. Ph-7 (46)-C located along the Delaware River between Pea Patch Island and New Castle Delaware. This survey will be compiled in accordance with instructions dated 25 March 1946 and 19 July 1946 by graphic photogrammetric methods. *Instructions filed in Div. Photogr. office files.*

2. LAYOUT

The layout of the map, horizontal ground control, and photograph centers are shown on the attached sketch.

3. PHOTOGRAPHS

The photographs used in this radial plot were taken with the U. S. Coast and Geodetic Survey, wide angle, Type D camera, focal length 12 inches at contact scale of 1:16,000 ratioed to a scale of 1:10,000.

4. MANUSCRIPTS

The projection sheet for this radial plot was ruled with polyconic projections; scale 1:10,000, New Jersey State Grids, and Delaware State Grids (5000 ft. intervals). The projection and grid lines were ruled on acetate with the ruling machine and checked in the Washington Office.

5. CONTROL

Since sufficient previously established horizontal control stations were available, no new stations were established by the field party.

The field party recovered 17 horizontal control stations in the area of this survey, 12 of which were identified.

6. FIELD INSPECTION

The field identification of the horizontal control was very good except as follows:

PEA PATCH ISLAND DIKE, MIDDLE RIVER BEACON, SOUTH END OF DIKE, 1933, Pricked direct, identified as a Non-floating Aid to Navigation. Radially plotted position falls approximately 14 millimeters southwest of geographic position. *See Form M-2388-12 attached.*

FINN, 1934. - The geographic position of the substitute point identi-

6. FIELD INSPECTION (Continued)

fied for this station could not be computed because the object initialed upon did not have a geographic position; however, Reference Mark ~~No. 2~~ was identified in the compilation office from data furnished by the field party and used to control the photographs.

7. SUMMARY

The selection and identification of substitute stations and the identification of control was very good except as mentioned in paragraph No. 6.

The distribution of control was good except in the southwestern portion of the survey.

The number and distribution of photographs was adequate for delineation; however, an additional flight in the northwestern portion of the survey would have been desirable to strengthen the radial plot.

DETAILS OF RADIAL PLOTTING

8. The scale of the projection sheet was determined in the Washington Office. Since the horizontal control was adequately distributed, it was decided the plot could be run more economically by orienting the photographs directly under the map projection.

9. In order to supplement the horizontal control plotted on the projection sheet and to insure a good junction between this plot and Surveys Nos. T-8775 and T-8777 to the south, pass points previously established on these surveys and common to Survey No. T-8774 were transferred thereto. In addition several pass points established by the 1:20,000 scale plot common to this area were also transferred to Survey No. T-8774 by the following method:-


Templets were made by placing a celluloid sheet over the 1:20,000 projection sheet and drawing radial lines through intersections of projection lines, grid lines, or a projection line with a grid line, using the pass point as the center. A minimum of four radials were drawn. The templets were then superimposed on the 1:10,000 scale projection sheet for Survey No. T-8774 and oriented with the radial lines, which had been extended, passing through the common intersections of projection lines, grid lines, and grid lines with projection lines. The pass point was then pricked through the templet to the projection sheet.

10. The radial plot was then made by sliding the photographs directly beneath the projection sheet and orienting the control pricked thereon to its corresponding plotted control station. Radials were then drawn on the projection sheet through all selected pass points. All horizontal control identified on the photographs was "held to" tangentially or better except the two stations discussed under paragraph No. 6. FINN R.M. No. 2 which was identified in the compilation office was also "held to" in the plot. Satisfactory results were obtained.

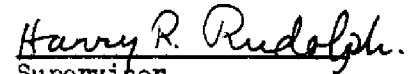
11. The positions of the pass points determined by radial intersection and of photograph centers determined by resection were then pricked directly on the projection sheet.

12. The positions of all pass points and photograph centers are within 0.5 mm of their correct geographic positions.

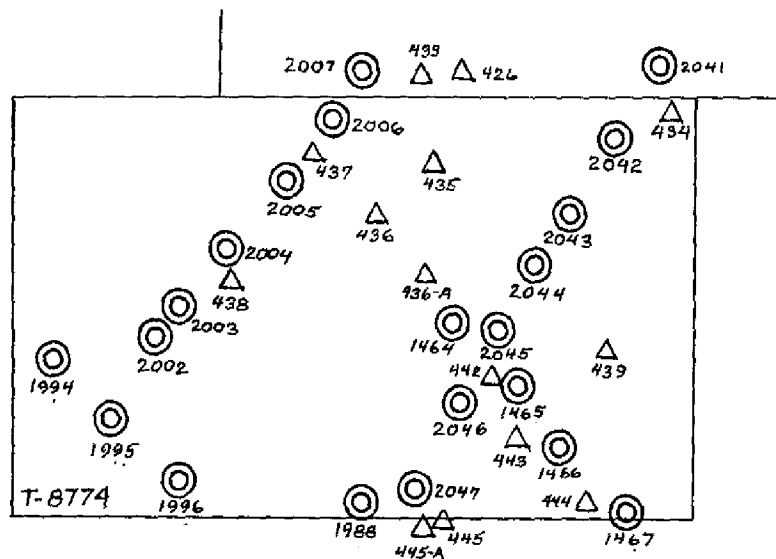
Approved and forwarded
12 September 1947


Officer in Charge
Baltimore Photogrammetric Office

Respectfully submitted
3 September 1947


Supervisor

NO.	NAME OF STATION	METHOD OF IDENTIFICATION
426	NEW CASTLE, 1933	Substitute Station
433	BULKHEAD BAR FRONT RANGE LIGHT	No recovery
434	PENNSVILLE TRINITY M.E. CH.SP. 1933	Pricked direct
435	PEA PATCH ISLAND DIKE UPPER RIVER BEACON N. END OF DIKE, 1933	Pricked direct
436	PEA PATCH ISLAND DIKE MIDDLE RIVER BEACON S. END OF DIKE, FLASHING GREEN, 1933	Pricked direct <i>Radially plotted position differs from listed G.P.s. Sta. reported "destroyed".</i>
436A	DIKES END (USE) 1898	Pricked direct
437	NEW CASTLE DELAWARE RAYON CO. N.W. STACK, 1933	Recovered, Not identified
437	NEW CASTLE DELAWARE RAYON CO. S.E. STACK, 1933	Recovered. Not identified.
438	HAMBURG SEXTANT (USE), 1932	Pricked direct
439	FINNS POINT REAR RANGE LT., 1933	Pricked direct
442	FORT MOTT NAT. CEM. MONUMENT 1933	Pricked direct
443	FORT MOTT, 1933	Recovered, Not identified
443	FORT MOTT, (USE) 1933	Recovered, Not identified
444	FINN, 1934	Substitute Station. <i>FM2</i> , Pricked direct in compila- tion office. <i>fm. 5-24</i>
445	PEA PATCH ISLAND LIGHT, 1933	Pricked direct
445A	FORT DELAWARE (USE), 1937	Substitute station <i>See chart</i>
437	NEW CASTLE DELAWARE RAYON CO TALL BLACK WATER TANK, 1933	Pricked Direct



LEGEND

- Field Photograph
- ⊙ Office Photograph
- △ Horizontal Control (see attached list for names of stations)

LAYOUT SKETCH

for
 SURVEY NO. T-8774.
 Project No. Ph-7-(46)-C

MAP T-8774

PROJECT NO. PH-7(46)-C

SCALE OF MAP 1:10,000

SCALE-FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR LONGITUDE OR X-COORDINATE		DISTANCE FROM GRID OR PROJECTION LINE OR PROJECTION LINE IN METERS		N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
NEW CASTLE 1933, r. 1946	G-1664 Pg. 73	N. A. 1927	39°	39'	29.124"		898.2	(952.2)		
			75°	33'	44.056"		1050.3	(380.1)		
SUB. STA. NEW CASTLE		"	39°	39'			831.9	(1018.5)		
			75°	33'			1022.6	(407.8)		<i>Removed from manuscript</i>
BULKHEAD BAR FRONT RANGE LT., 1933	G-1751 Pg. 124	"	39°	39'	18.727"		577.6	(1272.9)		
			75°	34'	23.460"		559.3	(871.1)		
PENNSVILLE, TRINITY M.E. CHURCH SPIRE, 1933, r. 1946	G-1751 Pg. 123	"	39°	39'	05.934"		183.0	(1667.4)		
			75°	31'	15.282"		364.3	(1066.2)		
NEW CASTLE, DELAWARE RAYON CO. TALL BLACK WATER TANK, 1933; r. 1946	G-1751 Pg. 124	"	39°	38'	47.475"		1464.2	(386.2)		
			75°	35'	35.112"		837.2	(593.4)		
NEW CASTLE, DELAWARE RAYON CO., NW STACK, 1933; r. 1946	G-1751 Pg. 124	"	39°	38'	47.366"		1460.8	(389.6)		
			75°	35'	34.588"		824.7	(605.9)		
NEW CASTLE, DELAWARE RAYON CO., SE STACK, 1933, r. 1946	G-1751 Pg. 125	"	39°	38'	47.160"		1454.5	(395.9)		
			75°	35'	34.109"		813.3	(617.3)		
PEA PATCH ISLAND DIKE, UPPER RIVER BEACON, NORTH END OF DIKE, FLASHING GREEN, 1933	G-1751 Pg. 125	"	39°	38'	41.82"		1289.8	(560.6)		
			75°	34'	06.75"		160.9	(1269.7)		
PEA PATCH ISLAND DIKE MIDDLE RIVER BEACON, SOUTH END OF DIKE, FLASHING GREEN, 1933	G-1751 Pg. 125	"	39°	38'	04.63"		143.4	(1585.8)		<i>Radially plotted profile 1st from S. of A.G.P.</i>
			75°	34'	08.58"	<i>Destroyed</i>	1110.3	(320.3)		<i>(SM 567)</i>

DATE 1/9/47

CHECKED BY G.O. Fellers

DATE 1/9/47

M-2388-12

SCALE FACTOR

STATION

SOURCE OF INFORMATION
(INDEX)

DATUM

LATITUDE OR y -COORDINATE
LONGITUDE OR x -COORDINATE

DISTANCE FROM GRID IN FEET.
OR PROJECTION LINE IN METERS
FORWARD (BACK)

[illegible]

DISTANCE
FROM GRID OR PROJE
IN METERS
FORWARD

CTION LINE
(BACK)

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FORWARD (BACK)
0	0
10	10
20	20
30	30
40	40
50	50
60	60
70	70
80	80
90	90
100	100
110	110
120	120
130	130
140	140
150	150
160	160
170	170
180	180
190	190
200	200
210	210
220	220
230	230
240	240
250	250
260	260
270	270
280	280
290	290
300	300
310	310
320	320
330	330
340	340
350	350
360	360
370	370
380	380
390	390
400	400
410	410
420	420
430	430
440	440
450	450
460	460
470	470
480	480
490	490
500	500
510	510
520	520
530	530
540	540
550	550
560	560
570	570
580	580
590	590
600	600
610	610
620	620
630	630
640	640
650	650
660	660
670	670
680	680
690	690
700	700
710	710
720	720
730	730
740	740
750	750
760	760
770	770
780	780
790	790
800	800
810	810
820	820
830	830
840	840
850	850
860	860
870	870
880	880
890	890
900	900
910	910
920	920
930	930
940	940
950	950
960	960
970	970
980	980
990	990
1000	1000

HAMBURG SEXTANT
(U.S.E.), 1932
r. 1946

-1664
Pg. 75

A. 1927

39° 37' 40.390"

FINNS POINT REAR
RANGE LT., 1933.
r. 1946

-1751
E. 125

二

39° 37' 01.063"

FORT MOTT NATIONAL CEMETERY MONUMENT. 1933, r. 19

-1751
g. 125.

二

39° 36'	41.741"
75° 33'	23.196"

FOUNT MON, 1933	r. 1946.
-----------------	----------

76.74

22

39° 36'	13.419"
75° 33'	13.810"

FINN. 1934

1913
Pg. 136

$$=$$

39° 35' 32.866"

Destroyed

FINN. 1934 R.M.

4

39°	35'
75°	32'

DIKES END (USE)
1898

J. S. F. D.
Phila.

2

39° 37' 34.384"	39° 37' 18.887M
-----------------	-----------------

1 FT. - 3048006 M
COMPUTED BY:

L. A. Senasack

DATE.....1/9/47

CHECKED BY: G.O. Fellers

DATE 1/9/47

M-2388-12

COMPILATION REPORT

SHORELINE MANUSCRIPT, SURVEY NO. T-8774

T-8774 is one of 12 shoreline manuscripts in Project No. Ph-7(46)C located along the Delaware River and Bay. These surveys are to be compiled in accordance with instructions dated 25 March 1946 and 19 July 1946 by graphic photogrammetric methods.

26. CONTROL

See layout of control submitted to the Washington Office, 12 September, 1947. A list of stations on Form No. M-2388-12 is included in this report.

27. RADIAL PLOT

Refer to the report for the individual radial plot covering the area of Survey No. T-8774, which was ~~submitted to the Washington Office 12 September 1947.~~ *precedes this compilation report.*

28. DELINEATION

The compilation is in accordance with the written instructions pertaining to Project No. Ph-7(46) C, dated 19 July 1946.

A portion of the apparent shoreline in Goose Pond is very indefinite on the photographs due to the fact that the area overflows. This area was carefully delineated however, making use of the grass in water symbol.

Photographic coverage was inadequate for the most westerly section of Pea Patch Island Dike.

30. MEAN HIGH WATER LINE

The shoreline was delineated from single lens photographs (1:10,000 scale field ratio prints) in accordance with the field identification shown thereon. Shoreline, for which no field inspection was furnished (approximately 50%) was delineated in the compilation office after careful stereoscopic examination of the photographs.

31. MEAN LOW WATER

It was generally noted that the low water line and the apparent shoreline were synonymous (See Field Report for Survey No. T-8753, Paragraph 8).

Only that portion of the mean low water line identified by the field party was delineated on the map manuscript.

32. DETAILS OFFSHORE FROM THE MEAN HIGH WATER LINE

Delineated in accordance with the field identification.

33. WHARVES AND SHORELINE STRUCTURES

Delineated in accordance with the field identification.

(See Field Report for Surveys No. T-8751 and No. T-8753, paragraph 9).

34. LANDMARKS AND AIDS TO NAVIGATION

Four (4) three point sextant fixes were made by the field party to determine the azimuth of navigational ranges on New Castle Range and on Bulkhead Bar Range.

After these sextant fixes were carefully plotted on the manuscript, it was found that the two fixes on Bulkhead Bar Range could not be held together in azimuth with Bulkhead Bar front and rear range lights.

See form 567 submitted with reports for Topographic Surveys Nos. T-8751 and T-8753.

35. HYDROGRAPHIC CONTROL

Six (6) photo hydro points.

A descriptive list of the photo hydro points has been compiled and is attached to this report. Two additional copies have been furnished for the use of the hydrographic parties.

36. LANDING FIELDS AND AERONAUTICAL AIDS

(See Field Report for Survey No. T-8751, Paragraph 13).

38. GEOGRAPHIC NAMES

Geographic names were taken from final names standards, dated 12/18/36, furnished by the Washington Office. A list of geographic names is attached to this report.

It is believed that the geographic name "Finns Point National Cemetery" appearing on the final name standard may be in error since a triangulation station in this area is known as "Fort Mott National Cemetery Monument". ✓

39. JUNCTIONS

Junctions with Surveys Nos. T-8777 and T-8775 to the south have been made and are in agreement.

Junction with Survey No. T-8773 to the north has been made and is in agreement.

There are no other contemporary surveys.

T-8774 is a part of Topographic Surveys Nos. T-8751 and T-8753.

40. BOUNDARIES

The limits of a U.S. Coast Guard Reservation has been delineated in accordance with field inspection data.

No other boundaries have been shown.

41. BRIDGES

There are no bridges over navigable waterways in the area.

44. COMPARISON WITH EXISTING TOPOGRAPHIC SURVEYS

Survey No. T-8774 has been compared in detail with the U. S. Geological Survey, Wilmington Quadrangle, scale 1:62,500 and was found to be in fair agreement. However, a large portion of Goose Island Flats which has been filled in, and around which a rock bulkhead has been built, does not appear on the quadrangle. A large pond inland from Reybold Cove also does not appear on the quadrangle.

45. COMPARISON WITH NAUTICAL CHARTS

T-8774 has been compared with Nautical Chart No. 294, scale 1:40,000 and found to be in fair agreement.

The following topographic information shown on T-8774 is of sufficient importance to warrant immediate application to the chart:

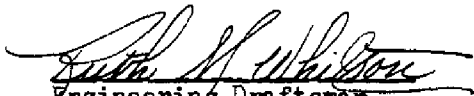
None.


The following topographic details above the plane of mean high water are not shown on this manuscript, but are believed to still exist and should be carried forward on the chart:

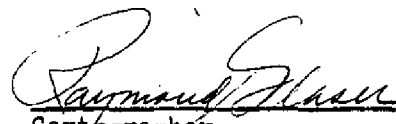
None.

Low water features are shown in part and should be completed
by the hydrographic party.


Respectfully submitted
23 October 1947


Engineering Draftsman
Compilation and Descriptive
Report


Supervisor


Cartographer
Photogrammetric Office
Reviewer

Approved and forwarded
13 November 1947


Officer in Charge
Baltimore Photogrammetric
Office

GEOGRAPHIC NAMES

- Deemers Beach
- Delaware River
- Dobbinsville
- Finns Point
- Finns Point National Cemetery (this is official name of cemetery situated in Fort Mott Military Reservation - War Dept. Doc. No 496, 1916 - #)
- Fort Mott
- Gambles Gut (Pending with USB&N)
- Goose Pond
- Hamburg Cove
- Hamburg Road
- Hoppemense Creek
- Kelly Point
- Lincoln Park
- Miles Creek
- Mill Creek (N. S. side)
- ~~Newark & Delaware City Branch (P. B. & W.)~~ •• Pennsylvania R.R.
- Pea Patch Island
- Penns Beach
- Pennsville
- Reybold Cove (Preferably omit, as very little of feature is on this map)
- Stonebank Creek
- Taggart Properties

•• New Castle

•• Red Lion Creek

•• Killcohook National Wildlife Refuge (official name)

Tom Creek (omit this name, as entirely unknown locally)

•• Army Creek (pending with U.S.B.G.N.)

Names preceded by • are approved. 8-5-49 L. Heck

LIST OF DESCRIPTIONS OF PHOTO HYDRO POINTS

Number	Description	Pricked on Photo. Number
5101	North Gable (Penns Beach Yacht Club House)	2043
5301	S.W. Corner of Pier	1465
5302	Top of Observation Tower	1465
5303	S.W. Corner of Pier	1465
5308	Finns Point Front Range Light	1467
5309	Finns Point Jetty Light	2045

Listed by:

Arthur H. Whitson
Engineering Draftsman

Checked by:

Lyman H. Hase
Cartographer

Review Report T-8774
Shoreline Survey
5 August 1949

34. Landmarks and Aids to Navigation:

1. New Castle Range:-New Castle Range Rear Lt. was incorrectly pricked on two of the photographs so that the radial cuts placed it out of its true position. By taking cuts through correctly pricked points the light position on the manuscript was moved westward 3.3 mm. The position of the light has been corrected on the Form 567.

2. Bulkhead Bar Range:-The sextant fix location for the northern "fix" point in this range was deleted from the map manuscript because it did not fall on the range azimuth. Azimuths of range were drawn on the manuscript.

Ten Aids to Navigation lie within the area of T-8774:

CH-4-679 (1944)	Finns Point, Range Front "1544"	Em. 567 (under T-8753)	
"	Finns Point, Range Rear "1544"	"	"
"	New Castle, Range Front "1550"	"	T-8751
"	New Castle, Range Rear "1551"	"	"
"	Bulkhead Bar, Range Front "1554"	"	"
"	Finns Point Jetty Light	"	"
"	Pea Patch Island Dike, Upper Light "1555"	"	"
"	Pea Patch Island Dike, Middle Light "1553"	"	"
"	Pea Patch Island Dike, Gap Light "1553"	"	T-8753
"	Port Mott Monument (40') Ldmk	"	"

35. Topographic Stations:-Forms 524 for LADD, 1946 and GALE, 1946 have been filed under T-8751.

* 43. Comparison with previous Topographic Surveys:

T-138	1:8000	1882	(no contours)
T-140	1:10,000	1861	(no contours)
T-156	1:10,000	1843	(no contours)
T-1505a	1:5000	1882	(with form lines)
T-1505b	1:10,000	1882	(with form lines)
T-1511a	1:5000	1881	(with 20 ft. contour)
T-1511b	1:10,000	1882	(with 20 ft. contour)

T-8774 supersedes these maps for nautical charting purposes.

44. Comparison with Topographic Quadrangles:

USGS	Wilmington	1:62,500	ed. Nov. 1906, rep. 1944
USC	Wilmington	1:62,500	ed. 1919 rep. 1921
USC	Wilmington	1:125,000	April 1942

45. Comparison with Nautical Charts:

294 1:40,000 Sept. 1943, rev. 7/19/48

No significant differences occur between the map and the chart.

* *For contours and interior detail see contemporary surveys T-8751 and T-8753.*

The chart and the manuscript are in general agreement, except:

1. The railway paralleling the shore from New Castle to Delaware City has been abandoned.
2. A pier between Finns Point Jetty Light and Finns Point is in ruins.
3. A wreck lying in the east side of Pea Patch Island Dike and just north of the Gap Light does not appear on T-8774 (no field inspection data)

4. Adequacy of Results and Future Surveys.

This shoreline map meets the Bureau requirements of accuracy and adequacy for use as a base for hydrographic surveys and nautical chart construction.
Reviewed by:

Lena T. Stevens
Lena T. Stevens

Approved by:

A. V. Griffith
Chief, Review Section R. & H.
Division of Photogrammetry

H. C. Mendenhall
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Div. of Photogrammetry

W. M. Scaife
Chief, Div. of Coastal Surveys

mg

Azimuth of Navigational Ranges
(copied from Desc. Rpt. T-8751)

Three-point sextant fixes to determine the azimuth of navigational ranges were obtained by George F. Varnadoe and James E. Hundley on 16-17 Sept. 1948 and are as follows:

At points on New Castle Range:

1. Δ Fort Mott Monument, 1933	76°57'00"
(S) 0 Light on Point, N.W. of Monument	-- -- --
0 New Castle F. & R. Range Light	46 43 30
2. Δ Fort Mott Monument, 1933	71 18 00
(N) 0 Light on Point, N.W. of Monument	-- -- --
0 New Castle F. & R. Range Light	62 10 00

At points on Bulkhead Bar Range:

1. Δ Fort Mott Monument, 1933	71°20'00"
(S) 0 Light on point, N.W. of Mon.	-- -- --
0 Rear Range Light (New Castle Range)	63°18'30"
2. Δ Fort Mott Monument, 1933	67°33'00"
(N) 0 Light on Point, N.W. of Mon.	-- -- --
0 Rear Range Light (New Castle Rng.)	83 31 30

*deleted from
manuscript*

NAUTICAL CHARTS BRANCH

SURVEY NO. E-8774

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

GEOGRAPHIC NAMES

Survey No.

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K
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