13145

Original

13145

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. ..... *Office No.* T-13145

LOCALITY

State New Jersey

General locality Barnegat Bay

Locality Toms River

19 67

CHIEF OF PARTY

J.Bull,RADM,Director,Atlantic Marine Center

LIBRARY & ARCHIVES

DATE .....

USCOMM-DC 5087

FORM C&GS-181a
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T- 13145

PROJECT NO. (II):

Job PH-6713

FIELD OFFICE (II):	CHIEF OF PARTY
Ipswich, Massachusetts	J. K. Wilson
PHOTOGRAMMETRIC OFFICE (III):	OFFICER-IN-CHARGE
Atlantic Marine Center, Norfolk, Virginia	J. Bull, RADM, USESSA Director, AMC

INSTRUCTIONS DATED (II) (III):

May 26, 1967 (FIELD)
July 17, 1967 (OFFICE)
Aug. 10, 1967 (SPECIAL)(AMC-12-67)

METHOD OF COMPILATION (III):

Kelsh Stereo-Plotter

MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:10,000	1:6,000 Pantographed to 1:10,000
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
MAY 29, 1968	

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

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

REFERENCE STATION (III):

TOMS RIVER STANDPIPE 1932 ✓

LAT.:	LONG.:	
39° 57' 14.13 (435.8m) ✓	74° 11' 44.60 (1058.7) ✓	☒ ADJUSTED ☐ UNADJUSTED

PLANE COORDINATES (IV):	STATE	ZONE
Y = X =	New Jersey ✓	

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.

USCOMM-DC 36393A-P66

FORM C&GS-181b
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): E. W. Hartford P. B. Walbolt	DATE: June 28, 1967 July 5, 1967
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of Photography April 1967 FIELD INSPECTION - 1967	
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree	DATE May 5, 1967
PROJECTION AND GRIDS CHECKED BY (IV): L. F. Van Scoy	DATE May 10, 1967
CONTROL PLOTTED BY (III): L. Neterer, Jr. A. Shands	DATE Aug. 7, 1967
CONTROL CHECKED BY (III): A. Shands L. Neterer, Jr.	DATE Aug. 8, 1967
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): R. B. Kelly	DATE Aug. 2, 1967
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY L. Neterer, Jr.	DATE Aug. 7, 1967
CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): C. Bishop	DATE Aug. 8, 1967
SCRIBING BY (III): J. Minton	DATE Sept. 11, 1967
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. E. Smith	DATE Aug. 15, 1967

REMARKS:

Some "Field Completion Notes", on ozalid & film prints were submitted by G. M. Ward, during Aug — Oct, 1967. See pages 20 & 21.

FORM C&GS-181c
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):
Wild
~~USC&GS Type~~ "L"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
67L-1746R	April 25, 1967	1157	1:30,000	0.6 ~~0.57'~~ above MLW
67L(c)-1738	"	1144	"	0.6 ~~0.57'~~ " "
67L(c)-1499 thru 1502	April 21, 1967	0952	1:15,000	0.6 ~~0.54'~~ " "
67L(c)-1474 thru 1476	"	0944	1:15,000	0.6 ~~0.54'~~ " "

a PREDICTED TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: SANDY HOOK, N.J.		4.6	5.6
SUBORDINATE STATION: COATES POINT ~~(HIGHWAY BRIDGE)~~	~~0.11~~	~~0.5~~	~~0.6~~
SUBORDINATE STATION: TOMS RIVER (town)	0.13	0.6	0.7

~~WASHINGTON~~ Atlantic Marine Center OFFICE REVIEW BY (IV): Thos. M. Stavely — DATE: April, 1968

PROOF EDIT BY (IV): — DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 1	RECOVERED: 1	IDENTIFIED: 1
NUMBER OF BM(S) SEARCHED FOR (II): none	RECOVERED: none	IDENTIFIED none

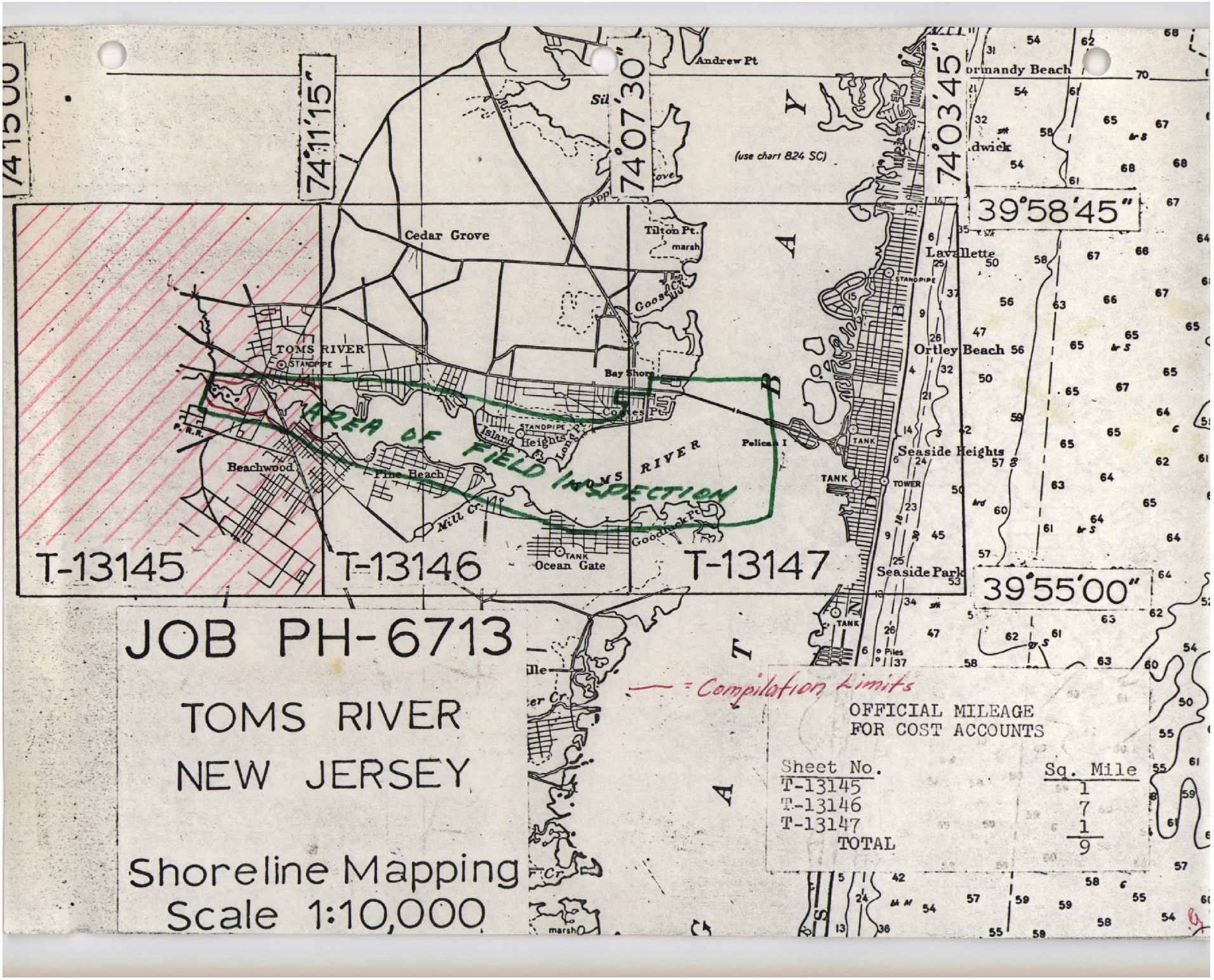
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): none

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): none

REMARKS:

T-13145

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete pending Field Edit	August 1967	Superseded
Corrections made from Hydro Party	November 1967	Superseded
FINAL REVIEW	April 1968	


74°11'15"
74°07'30"
74°03'45"
39°58'45"
39°55'00"
Andrew Pt
Normandy Beach
(use chart 824 SC)
Cedar Grove
Tilton Pt.
marsh
Goose Cr.
Lavallette
STANDPIPE
TOMS RIVER
STANDPIPE
Bay Shore
Ortley Beach
Coates Pt.
AREA OF FIELD INSPECTION
Island Heights
Long Pt.
Pelican I
TOMS RIVER
Seaside Heights
TANK
TOWER
Beachwood
Pine Beach
Mill Cr.
Goodluck Pt.
TANK
Ocean Gate
Seaside Park
TANK
6 Piles
T-13145
T-13146
T-13147
JOB PH-6713
TOMS RIVER
NEW JERSEY
Shoreline Mapping
Scale 1:10,000
= Compilation Limits
OFFICIAL MILEAGE
FOR COST ACCOUNTS
Sheet No.
Sq. Mile
T-13145 1
T-13146 7
T-13147 1
TOTAL 9
marsh

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-13145

Shoreline manuscript T-13145 is one of three 1:10,000 scale maps in Ph-6713, Toms River, New Jersey. The sketch on page 5 of this report shows the position of this manuscript in the project.

Ph-6713 is a stereo-instrument project in advance of hydrographic surveys of the area. Compilation was by Kelsh Plotter using the same 1:30,000 diapositives of the April 25, 1967 infra-red photography that were used in the stereoplanigraph bridge. A ratio black and white print of the April 25, 1967 1:30,000 scale color photograph 67-L(c)-1737 was used for reference in compilation, and was processed and furnished for hydrographic support. It is noted that the center of only the processed photograph 67-L-1637 appears on the map manuscript. Color ratio prints of the April 21, 1967, 1:15,000 scale photographs 67-L(c)-1475 and 1476 were also furnished the compiler, and were very useful in final review.

Field work preceding compilation consisted of control identification on 1:30,000 color transparencies, (flight 67-L(c)-1733 through 1738), during June 1967; and field inspection was done in June and July 1967 on 1:15,000 scale contact color prints 67-L(c)-1476, 1477, and 1497.

In accordance with AMENDED INSTRUCTIONS - SPECIAL PROJECT AMC-12-67 of August 18, 1967, see pages 20 and 21 of this report, field edit was not done. The hydrographer did fully answer the compiler's questions on the ozalid and cronaflex "Field Information Prints" during August and September 1967.

The compilation manuscript was a vinylite sheet 3 minutes and 45 seconds in latitude and longitude. The smooth manuscript was on cronaflex for registry and record after final review.

Final review was done in April 1968 at the Atlantic Marine Center.

FIELD INSPECTION REPORT
JOB PH-6713
MAPS T-13145, T-13146, T-13147

This report is submitted for three maps, since there are no areas requireing special treatment.

2. AREAL FIELD INSPECTION

The area lies along the North and South shores of Toms River, extending to the East across Barnegat Bay to Ortley Beach and Seaside Heights, and to the West to the Garden State Parkway.

The area of field inspection is the immediate shore line of Toms River from the mouth westward to the Garden State Parkway (Instrustions dated 26 May ~~1966~~).1967

This area is extensively developed, and is accessible by truck.

Field inspection is complete; no part being ommitted or left for field edit.

Photographic quality is very good. Photographs were taken in April 1967.

Photographs used for field inspection are listed below Maps:

T-13145	T-13146	T-13147
67-L-1476	67-L-1477	67-L-1492
	1494	1493
	1495	
	1496	
	1497	

3. HORIZONTAL CONTROL

Horizontal control recovery has been completed in accordance with project instructions.

The identification of horizontal control was accomplished during period June 22, 1967, through June 28, 1967.

The control was identified on color transparencies of 1:30,000 scale.

4. VERTICAL CONTROL

None.

5. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage is composed of small streams, and drains with a very few swamp and marsh areas.

6. WOODLAND COVER

Woodland cover was classed in accordance with the Topographic Manual.

7. SHORELINE AND ALONGSHORE FEATURES

The high-water ard apparent shoreline have been indicated on the photographs by symbol.

The field inspection was accomplished by visual inspection from skiff.

The high-water line is clearly visible on the photographs by bulkheads and the change in color tone on the sand beaches, which is from a redish color to a white color, and is shown by the inspector in several places on the photographs.

Special attention is invited to a small area just West of Island Heights; this shore line has been filled for a new beach since photography. Measurements were taken at this area to the high-water line, and are shown on Photograph 67-L-1496.

8. OFFSHORE FEATURES

This phase was checked, and adequate field inspection noteswere made on the photographs.

9. LANDMARKS AND AIDS

Non-floating aids to navigation were verified as to existence and correct number. These aids are identified on photograph 67-L-1492, and located in Map T-13147.

There are six private aids in Toms River; these are single pile structures about 10 feet above the water with a light at the top, and are maintained by the state. The channel is also marked by bouys. These and the lights are seasonal (Junel to September 1). Five aids are identified on Photographs 67-L-1476, 1477, and 1494. One was located by sextant fix, and submitted on form 274.

All landmark buildings recommended for charting are circled on the photographs.

Two landmark bluffs are noted on photographs 67-L-1496 and 1497.

Nautical landmarks outside the field inspection area were visualy inspected, and are to be carried forward. Forms 567 are submitted for one deletion, and four (4) to be charted. There were no Nautical Landmarks in the area of field inspection.

10. BOUNDARIES, MONUMENTS AND LINES

Inapplicable.

11. OTHER CONTROL

None.

12. OTHER INTERIOR FEATURES

Three submerged cable shore ends were identified on the photographs: Two on photo 67-L-1476, and one on photo 67-L-1493.

13. GEOGRAPHIC NAMES

None.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

None.

7 July 1967
Submitted by:

E. W. Hartford

E. W. Hartford
Chief, sub-unit, Photo Party 62

PHOTOGRAMMETRIC PLOT REPORT
Job PH-6713
Toms River, New Jersey

August 2, 1967

21. Area Covered

The area covered extends along Toms River from the city of Toms River, New Jersey, to the city of Seaside Heights, New Jersey. Included in the area are T-sheets, T-13145 thru T-13147, all at 1:10,000 scale.

22. Method

One strip of infrared photography (67-L-1746R thru 1751R) was bridged on the C-8 stereoplanigraph to provide passpoints for B-8 compilation and ratio points for low-altitude, color photography. Five horizontal control stations were used in the IBM bridge adjustment with the companion points and one other station used as checks.

23. Adequacy of Control

The horizontal control provided complied with job instructions and was adequate in quality and quantity. All control held within National Map Accuracy Standards with the exception of ISLAND HEIGHTS STANDPIPE, 1932 "SS". This point was identified on color photography and could not be clearly identified on the infrared photography.

24. Supplemental Data

Local USGS quads and sea level datum were used to rough control elevation during bridging operations.

25. Photography

The infrared photography used for bridging was adequate in coverage, overlap and definition.

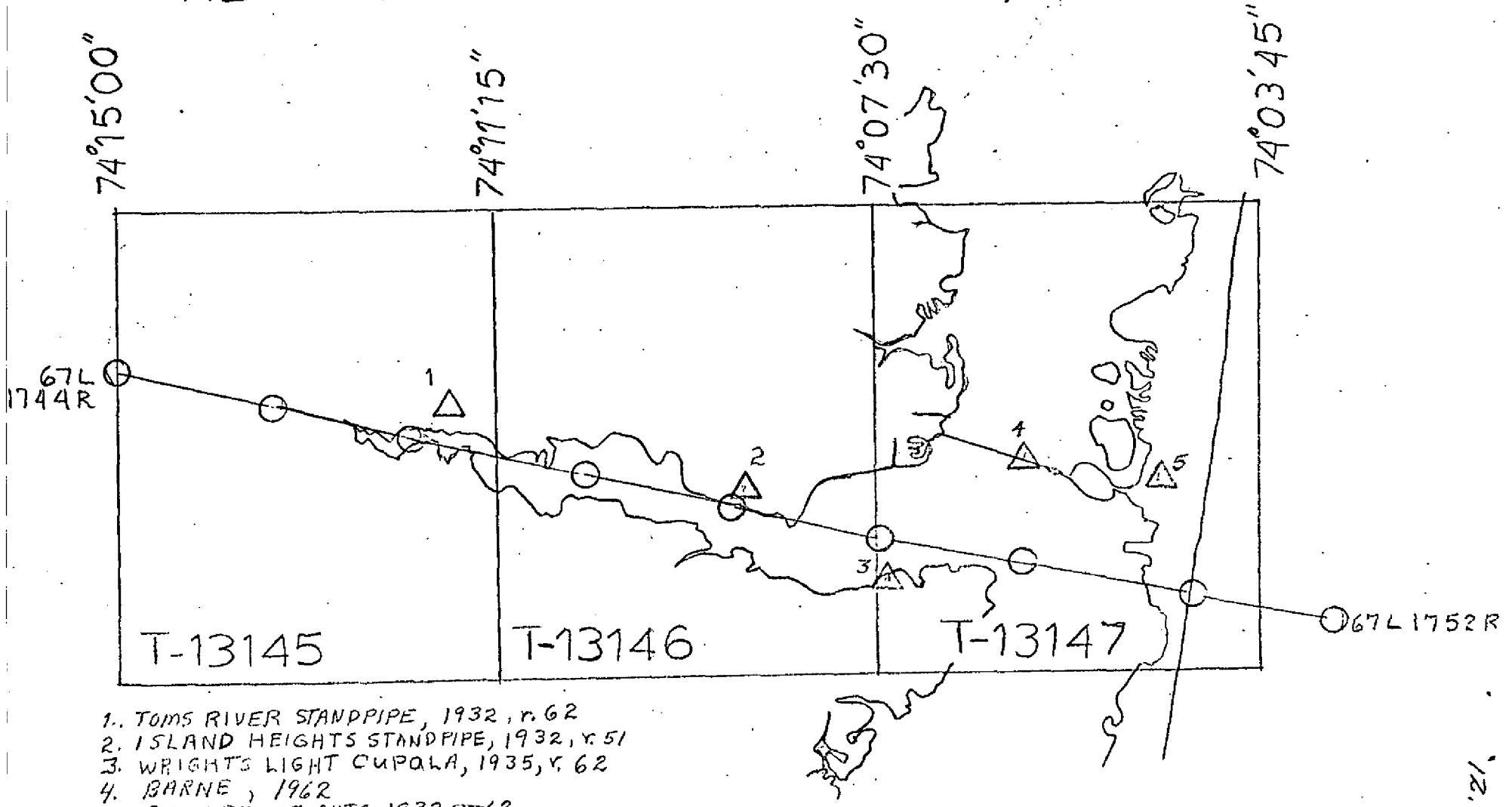
Submitted by:
Robert B. Kelly
Robert B. Kelly

Approved by:
John D. Perrow, Jr.
John D. Perrow, Jr.

JOB PH-6713

TOMS RIVER
NEW JERSEY

Shoreline Mapping
Scale 1:10,000



1. TOMS RIVER STANDPIPE, 1932, r. 62
2. ISLAND HEIGHTS STANDPIPE, 1932, r. 51
3. WRIGHTS LIGHT CUPOLA, 1935, r. 62
4. BARNE, 1962
5. SEASIDE HEIGHTS 1932, r. 62

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE — COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT — CONTROL RECORD

MAP T-13145 PROJECT NO. PH-6713 SCALE OF MAP 1:10,000 SCALE FACTOR None

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)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
TOMS RIVER	G.P. Vol. 1 pg.398	N.A.	39° 57' 14.13"	435.8	(1414.7)					
STANDPIPE 1932		1927	74° 11' 44.60"	1058.7	(365.5)					

1 FT. = .3048006 METER

COMPUTED BY: A. C. Rauck, Jr. DATE August 8, 1967

CHECKED BY: C. H. Bishop DATE August 10, 1967

COMM-DC-57843

COMPILATION REPORT
T-13145
Job PH-6713

31. DELINEATION:

The Kelsh Plotter was used.

Photography and field inspection were adequate.

32. CONTROL:

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage was delineated from office interpretation of the photographs with the aid of field inspection.

35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline inspection was adequate.

No low water line was shown.

36. OFFSHORE DETAILS:

No statement.

37. LANDMARKS AND AIDS:

Form 567 for two Landmarks and three Aids have been submitted to the Washington Office under date of November 6, 1967.

38. CONTROL FOR FUTURE SURVEYS:

Refer to Item 49.

39. JUNCTIONS:

There are no contemporary surveys to the north, south, or west. Junction is in agreement with T-13146 to the east.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Quadrangle TOMS RIVER, N.J. scale, 1:24,000, dated 1953.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Nautical Chart No. 824-SC, scale 1:40,000, 5th edition, dated January 1967.

Items to be applied to nautical charts immediately:

None

Items to be carried forward:

None

Approved and Forwarded

J. Bull, RADM, USESSA
Director, Atlantic Marine Center

Submitted by

R. E. Smith
Cartographer

16

6-14-67

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6713 (Toms River, N. J.)

T-13145

- Beachwood
- Cedar Point
- * ~~Davenport Branch~~
- * ~~Jakes Branch~~
- Kilpatrick Point - fpt
- * ~~South Toms River~~
- * ~~Sunken Branch~~
- Toms River (river)
- Toms River (town)
- * ~~Wrangle Brook~~

* Feature is beyond compilation limits

J.J.S.

Approved by:

A. Joseph Wraight

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett

Frank W. Pickett
Cartographic Technician

T-13145

49. NOTES FOR THE HYDROGRAPHER

The following are the descriptions and list of Photo-hydro stations. These are office selections.

4501 - North east corner of Bkld.
4502 - West end of Boat house gable
4503 - T intersection of pier

There are no recoverable topographic stations.

Locate TOMS RIVER LIGHTS 13, and G 19. Submit Form 567 for TOMS RIVER LIGHTS 7, 13, and G 19.

Give heights and submit Form 567 for TANK and TOMS RIVER STANDPIPE, 1932 at latitude 39° 57' 14", longitude 74° 11' 44".

FORM C&GS-1002
(9-66)

U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-~~10863~~ 13195

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
RES	RES	RES	RES

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
RES	RES	RES

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
X	X	Bridge (W.O.)	Kelsh

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
RES	X	X	RES

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
RES	RES	RES	RES

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
RES	RES	X

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
X	X	X	X

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
RES	RES	RES	X

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
X	X

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
RES	RES	RES

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
X	RES	RES	RES

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
R. E. Smith R. E. Smith	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	SUPERVISOR
R. E. Smith R. E. Smith	Albert C. Rauck Jr. A. C. Rauck, Jr.

43. REMARKS

Hydro. Party corrections were made from Field Information Ozalid and cronaflex copy of sheet.

FORM C&GS-567
(5-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

~~NONFLOATING AIDS~~ OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DELETED~~ } STRIKE OUT TWO

Atlantic Marine Center November 6, 1967

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by R. E. Smith

for J. Bull, RADM, USESSA
Director, AMC
Chief of Party

STATE	NEW JERSEY		POSITION									
			LATITUDE*		LONGITUDE*							
CHARTING NAME	DESCRIPTION	SIGNAL NAME	° ′	″ D.M. METERS	° ′	″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	TOMS RIVER												
	Beachwood Municipal Waterworks			18.74		31.13	N.A.	Photo.		x			824 SC
TANK	Poultryman's Service Co. steel		39 56	578	74 11	739	1927	T-13145	8/30/67		x		1216
	ht. = 118 (148)												
	Poultyman's Service Co.			57.49		0.80	"	"		x			824 SC
ELEVATOR	steel ht. = 75 (85)		39 56	1773	74 12	19	"	"	8/30/67		x		1216

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

FORM C&GS-567
(5-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DELETED~~
} STRIKE OUT TWO

Atlantic Marine Center, November 6, 1967

I recommend that the following objects which have ~~have not~~ been inspected from seaward to determine their value as landmarks be charted on ~~(chart from)~~ the charts indicated.

The positions given have been checked after listing by R. E. Smith

R. E. Smith

for J. Bull, RADM, USESSA
Director, AMC
Chief of Party

STATE: NEW JERSEY

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	″ D.M. METERS	POSITION LONGITUDE* ° ′	″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	TOMS RIVER												
				56.19		42.97	N.A.	Photo.		x			824 SC
LIGHT 19	Privt. Maintd.		39 56	1733	74 11	1020	1927	T-13145	8/30/67		x		1216
				55.64		22.12	N.A.	"		x			824 SC
LIGHT 13	" "		39 56	1716	74 11	525	1927	"	8/30/67		x		1216
				42.51		16.60	N.A.	"		x			824 SC
LIGHT 7	" "		39 56	1311	74 11	394	1927	"	8/30/67		x		1216

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. *Revisions shall show both the old and new positions.* The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

USCOMM-DC 36482-P66

'61

FORM 1[illegible] (4-27)

TIDE COMPUTATION

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PROJECT NO. Ph-6713 TOMS RIVER

M.H.W. = 0.45'

COLOR

Time and date of exposure APRIL 21, 1967 9:44 9:52

~~Date of field inspection~~

Reference station SANDY HOOK, N.J.

Subordinate station COATES POINT (HIGHWAY BRIDGE)

Mean range = 0.5'
M.T.L. = 0.2'
Ratio of ranges
H.W. = 0.11
L.W. = 0.11

	Time h. m.
High tide	9:13
Low tide	15:40
Duration of rise or fall	6:27

	Height feet	Height x Ratio of ranges
High tide	4.9	X 0.11 = .539
Low tide	− 0.4	X 0.11 = −.044
Range of tide		0.583

	Time h. m.
High tide at Ref. Sta.	04 54
Time difference	+ 4 19
Corrected time at Subordinate station	9:13

	Time h. m.
Low tide at Ref. Sta.	11 12
Time difference	+ 4 28
Corrected time at Subordinate station	15:40

	h. m.		feet		feet	Photo. No.
Time H. T. or Required time Interval	9:13 9:44 0:31	Ht. H. T. or Tabular correction Stage of tide above MLW	0.539 0.01 0.539	Feature bares Stage of tide above MLW Feature above MLW		67L(C) 1474 THRU 67L(C) 1486
Time H. T. or Required time Interval	9:13 9:52 0:39	Ht. H. T. or Tabular correction Stage of tide above MLW	0.539 0.0 0.539	Feature bares Stage of tide above MLW Feature above MLW		67L(C) 1488 THRU 67L(C) 1502
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		

COMM-DC-57848

Computed by A.C. RAUCK JR 8/7/67 Checked by CHP 9/7/67

FORM 1
(4-27-5

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

TIDE COMPUTATION

PROJECT NO. Ph-6713 TOMS RIVER

Time and date of exposure APRIL 25, 1967 ✓ 11:57 INFRARED ✓ 11:44 COLOR ✓ Reference station SANDY HOOK, N.J.

~~Date of field inspection~~ Subordinate station COATES POINT (HIGHWAY BRIDGE)

M.H.W. = 0.45'
Mean range = 0.5'
M.T.L. = 0.2'
Ratio of ranges
H.W. = 0.11
L.W. = 0.11

	Time h. m.
High tide	12:31 ✓
Low tide	6:~~5~~40 ✓
Duration of rise or fall	5:~~1~~ ✓

	Height feet	Height x Ratio of ranges
High tide	5.2'	X 0.11 = .572
Low tide	−1.2'	X 0.11 = −.132
Range of tide		0.704

	Time h. m.
High tide at Ref. Sta.	08 12 ✓
Time difference	+4 19 ✓
Corrected time at Subordinate station	12:31 ✓

	Time h. m.
Low tide at Ref. Sta.	02 12 ✓
Time difference	+4 28 ✓
Corrected time at Subordinate station	6:40 ✓

	h. m.		feet		feet	Photo. No.
Time H. T. or ~~L. T.~~ Required time Interval	12:31 ✓ 11:57 0:34 ✓	Ht. H. T. or ~~L. T.~~ Tabular correction Stage of tide above MLW	0.572' 0.0 0.572'	Feature bares Stage of tide above MLW Feature above MLW		67L 1744R THRU 67L 1752R
Time H. T. or L. T. Required time Interval	12:31 ✓ 11:44 0:47 ✓	Ht. H. T. or ~~L. T.~~ Tabular correction Stage of tide above MLW	0.572' 0.0 0.572'	Feature bares Stage of tide above MLW Feature above MLW		67L(c) 1733 THRU 67L(c) 1739
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	-	Feature bares Stage of tide above MLW Feature above MLW		

COMM-DC-57848

Computed by A.C. RAUCK JR. 8/7/67 Checked by CHB 8/7/67

FORM CD-121 (11-63) (PRES. BY A.O. 206-10)

UNITED STATES GOVERNMENT

Memorandum

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

in lieu of Field Edit Report

TO : Director
Atlantic Marine Center

DATE: 30 October 1967

In reply refer to:

ATTN : Chief, Photogrammetric Processing Branch

FROM : Officer-In-Charge
Hydrographic Field Party 745

SUBJECT: SP-AMC-12-67 - Investigation of Chart Deficiencies, Coast of New Jersey --- Additional Field Information for Compilation Ph-6713 - Vicinity of Toms River

5 next page

Pursuant to Ammended Instructions for SP-AMC-12-67 dated 18 August 1967, additional field information was obtained for compilation of sheets T-13145, -6, & -7 during the period August - October 1967. The majority of the work being done on 30 & 31 August 1967.

Sextant positions with check angles using triangulation or photo points were obtained for all aids not compiled in the project area. All aids and landmarks on T-13147 were additionally checked by a planetable cut from BARNE, 1962. A two-position theodelite cut was obtained as a check for the Ocean Gate Water Tank which was located by the party with two photo cuts on T-13146.

A few of the more important details remaining to be compiled were noted, however a thorough edit was in no way undertaken.

5 see Summary (page c)

Gerald M. Ward
LT - USESSA

Enclosures
As per Form 413

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY
Atlantic Marine Center
439 West York Street
Norfolk, Virginia 23510

18 August 1967

Officer in Charge
Hydrographic Field Party 745

AMENDED INSTRUCTIONS -- SPECIAL PROJECT AMC-12-67 -- INVESTIGATIONS OF CHART DEFICIENCIES -- COAST OF NEW JERSEY

1. A photogrammetrist will not be assigned to provide photo-hydro support for hydrography in Toms River.

2. Office identified points have been picked to supplement existing pass points, land marks and triangulation. Each office identified point has been numbered and a description of each point will be furnished.

3. Field edit of the Toms River manuscripts will not be required. Notes to the hydrographer listing additional information required for compilation will be furnished.

4. A strong sextant fix with check angle will be acceptable for location of the fixed aids in lieu of location by triangulation.

5. Forward field notes and Form 567s for the Toms River manuscripts to Chief, Photogrammetric Processing Branch, Atlantic Marine Center.

6. Receipt of these ammended instructions shall be acknowledged.

J. Bull
Director
Atlantic Marine Center

REVIEW REPORT T-13145
SHORELINE
April 1968

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid Comparison Print (page 24 of this report), which shows the differences noted in Items 62, and 65, is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

T-9827 North half; 1:10,000; Oct. 1952 Kelsh; Field Edit June 1953; Final Review May 1955.

The T-9827 differences are on the Comparison Print in blue.

This survey is generally in good agreement with T-9827; the only major differences are obviously from construction. Some minor changes are also noted in the Comparison Print. The Comparison Print notes the differing height and elevation for Toms River Standpipe: 105' (135') on T-13145, and 100' (128') on T-9827 n/2. T-9827 n/2 gave no height and/or elevation for the tank both maps show near latitude 39° 56.3', longitude 74° 11.52'.

T-9827 shows a geographic name, Kilpatrick Pt., that does not appear on the geographic name list or Name Standard quadrangle submitted for T-13145, and is therefore not on this map. The name is used for the same feature, latitude 39° 57.0', longitude 74° 11.7', on nautical chart 824SC, see Item 65 of this report. *

T-13145 supersedes the previous registered surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

TOMS RIVER, N.J.: U.S.G.S. quadrangle; 1:24,000; 1953

This quadrangle is a reduction of U.S.C.&.G.S. topographic survey T-9827 North and South halves, used for Item 62. The same differences therefore exist, excepting the quadrangle does not use the name Kilpatrick Pt. and does not show a height and/or elevation for Toms River Standpipe.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A "Chart Investigation Smooth Sheet" for Special Project AMC-12-67,

* NAME APPROVED AND ADDED TO MAP — SEE Geographic Names List SGB

(see pages 20 and 21 of this report), is being prepared by hydrographic party 745 for transmittal to Washington in May 1968. This smooth sheet will use prints of the final reviewed manuscript T-13145 as the source of shoreline information.

65. COMPARISON WITH NAUTICAL CHARTS:

Chart 824 SC; 1:40,000; 6th Edition, Jan. 1968, corrected through Notice to Mariners #52 of Dec. 30, 1967.

The chart differences with T-13145 are on the Comparison Print in red.

Light 19 has apparently been moved about 100 meters northeast of the chart position.

The point at latitude 39° 57.0', longitude 74° 11.7' has been changed by construction.

There is a difference in the pier and shoreline near latitude 39° 56.65' and Longitude 74° 11.35'.

The chart delineation of the pond west of longitude 74° 12.1" should be revised from T-13145.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with the project instructions, Bureau requirements, and meets the National Standards of Map Accuracy. No accuracy tests were run in the field.

Reviewed by:

M. M. Slavney

M. M. Slavney

Approved by:

J. Bull, RADM, USESSA
Director, Atlantic Marine Center

Approved by:

Chief, Photogrammetric Branch

Chief, Photogrammetry Division

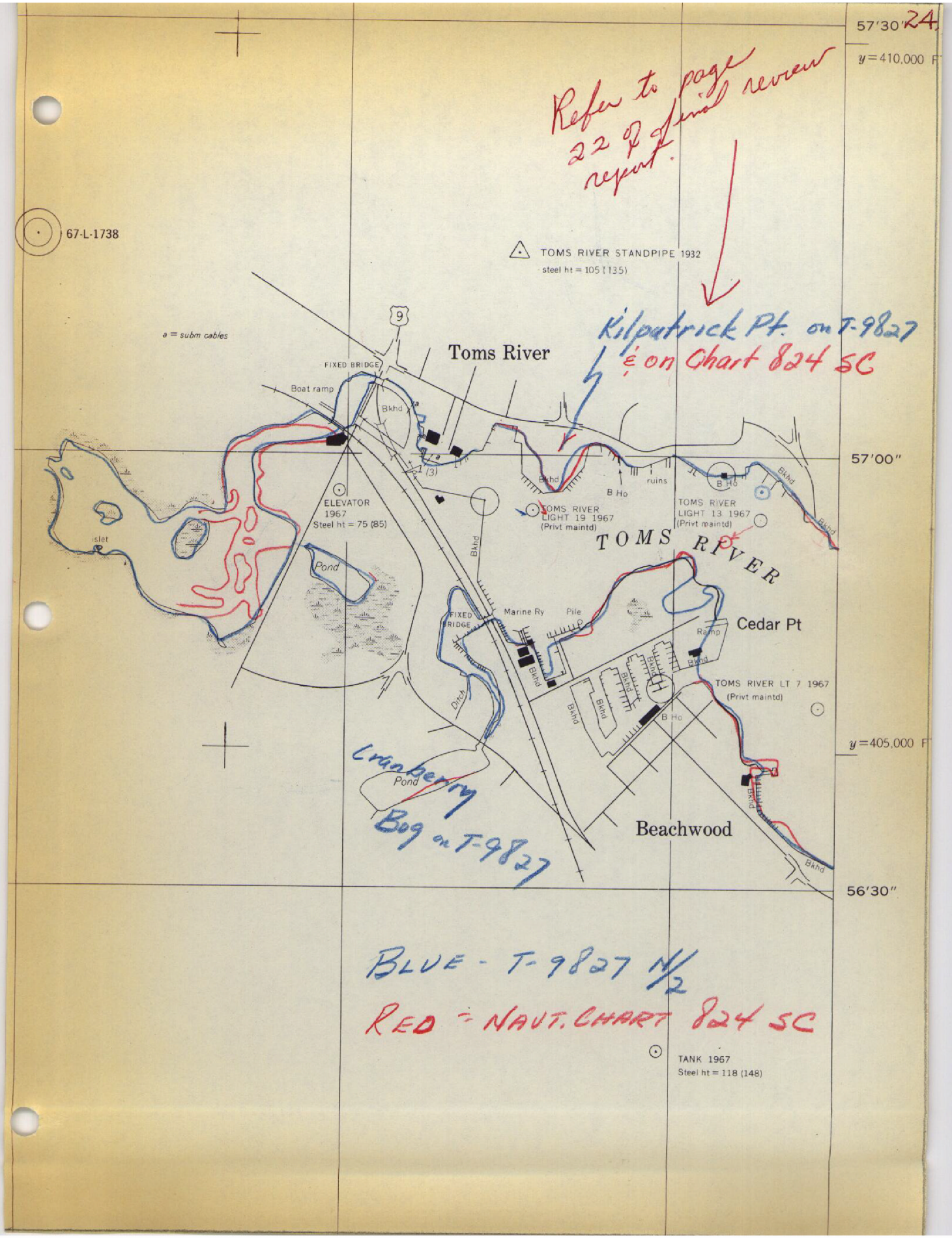
JUN 27 1968

Chief, Nautical Chart Division

NOTES TO VERIFIER
T-13145, Job Ph-6713

"CHART INVESTIGATION SMOOTH SHEET for Special Project AMC-12-67"

Should be in agreement, see Item 64 page 22 of this Descriptive Report.


57'30"
24
y=410,000 FT
Refer to page 22 of final review report.
67-L-1738
TOMS RIVER STANDPIPE 1932
steel ht = 105 (135)
a = subm cables
9
Toms River
Kilpatrick Pt. on T-9827 & on Chart 824 SC
FIXED BRIDGE
Boat ramp
Bkhd
(3)
ELEVATOR
1967
Steel ht = 75 (85)
islet
Pond
B Ho
ruins
TOMS RIVER
LIGHT 19 1967
(Privt maintd)
TOMS RIVER
LIGHT 13 1967
(Privt maintd)
TOMS RIVER
FIXED BRIDGE
Marine Ry
Pile
Ramp
Cedar Pt
TOMS RIVER LT 7 1967
(Privt maintd)
Ditch
Cranberry Pond
Cranberry Bog on T-9827
Beachwood
57'00"
y=405,000 FT
56'30"
BLUE - T-9827 N/2
RED = NAUT. CHART 824 SC
TANK 1967
Steel ht = 118 (148)