

TP-00249

TP-00249

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline Mapping
Job No. CM-7707 Map No. TP-00249
Classification No. III Edition No.1.....

LOCALITY

State Delaware
General Locality Delaware River
Locality Pea Patch Island to New Castle

19⁷⁵ TO 19

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

12 311 (294)

SUMMARY CM-7707
MAPS TP-00246 THRU TP-00256

This summary covers the remaining eleven maps in this project as indicated above. Field edit for these maps was canceled November 16, 1978. They are final reviewed and registered as Class III.

This area was originally scheduled for landmark and aid location under CM-7508. The job was completed in March 1977. All the information obtained for that project was applied to the compiled maps in CM-7707. The forms 76-40 for landmarks and aids is part of each Descriptive Report. However, they are not furnished to charts with this project. Duplicate forms were furnished with job CM-7508 in April 1977.

The purpose of this project is to furnish a base for new hydrographic surveys and nautical chart updating.

The manuscripts were compiled using the Wild B-8 Stereoplotter with 1:20,000 natural color photography taken in 1975.

It was decided to use the New Jersey State Plane Grid as the major grid in this portion of the project except for TP-00249, TP-00251, TP-00253, and TP-00255 which has the Delaware State Plane Grid as the secondary grid.

Final Review was done in the Rockville, Maryland Office in July and August 1979. Neither the bridging nor compilation photography was available at the time of final review.

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY ☒ ORIGINAL ☐ RESURVEY ☐ REVISED	
PHOTOGRAMMETRIC OFFICE Photogrammetry Division Rockville, Maryland		SURVEY TP. <u>00249</u> MAP EDITION NO. <u>1</u> MAP CLASS <u>III</u> JOB <u>PH-CM-7707</u>	
OFFICER-IN-CHARGE Cdr. James Collins		LAST PRECEDING MAP EDITION TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Instructions-AEROTRIANGULATION (CM-7508) 2/4/76 Instructions-OFFICE-CM-7707 - (3/18/77)		Instructions-FIELD (CM-7508) 3/4/75 Instructions-FIELD (CM-7508) Supplement I - 7/11/75	
II. DATUMS			
1. HORIZONTAL: ☒ 1927 NORTH-AMERICAN		OTHER (Specify)	
2. VERTICAL: ☐ MEAN HIGH-WATER ☒ MEAN LOW-WATER ☐ MEAN LOWER LOW-WATER ☐ MEAN SEA LEVEL		OTHER (Specify) National Geodetic Vertical Datum of 1929	
3. MAP PROJECTION Transverse Mercator Projection		4. GRID(S) STATE <u>New Jersey</u> ZONE _____ STATE <u>Delaware</u> ZONE _____	
5. SCALE 1:10,000		STATE <u>Delaware</u> ZONE _____	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	
1. AEROTRIANGULATION METHOD: <u>Analytic</u>		R. Kelly 10/15/76	
LANDMARKS AND AIDS BY		D. Norman 10/15/76	
2. CONTROL AND BRIDGE POINTS METHOD: <u>Coradomat</u>		PLOTTED BY V.E. Connolly 7/18/78	
CHECKED BY NA		7/24/78	
3. STEREOSCOPIC INSTRUMENT COMPILATION		PLANIMETRY BY B. Baldwin 7/24/78	
INSTRUMENT: <u>Wild B-8</u>		CHECKED BY L. Harrod 7/24/78	
SCALE: <u>1:10,000</u>		CONTOURS BY NA	
4. MANUSCRIPT DELINEATION		CHECKED BY NA	
METHOD: <u>Smooth Drafting</u>		PLANIMETRY BY B. Baldwin 7/31/78	
SCALE: <u>1:10,000</u>		CHECKED BY L. Harrod 8/2/78	
HYDRO SUPPORT DATA BY NA		CONTOURS BY NA	
CHECKED BY NA		5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY G. Fromm 10/19/78	
6. APPLICATION OF FIELD EDIT DATA CHECKED BY		Field Edit Canceled 11/16/78	
7. COMPILATION SECTION REVIEW BY		G. Fromm 3/12/79	
8. FINAL REVIEW BY		F.R. Watts 8/7/79	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		G. Fromm 4/9/79	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		F. R. Watts 8/7/79	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		E. L. DAUGHERTY NOV 1979	

COMPILATION SOURCES

TP-00249

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10 and RC-8(E)
Focal lengths=(B) 152.74mm, (E)

TIDE STAGE REFERENCE 152.71mm

- ☒ PREDICTED TIDES
☐ REFERENCE STATION RECORDS
☐ TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY
LEGEND

- (C) COLOR
(P) PANCHROMATIC
(I) INFRARED

TIME REFERENCE

ZONE Eastern ☒ STANDARD
MERIDIAN 75th ☐ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
75E(C) 8753-8754	4/9/75	1237-1243	1:20,000	-1.54 ft. MHW
75E(C) 8736-8740	4/9/75	1218-1223	1:20,000	-1.85 ft. MHW
75B(C) 4747-4750	8/28/75	905-914	1:20,000	+ .78 ft. MLW
75B(C) 4782-4783	8/28/75	922-930	1:20,000	+ .69 ft. MLW

REMARKS

The above photography was ratioed to 1:10,000 scale.

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the mean high water line is the photography listed under
Item I.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

No mean low water line is depicted on this map.

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 TP-00247	EAST TP-00250	SOUTH TP-00251	WEST No Contemporary Survey
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REMARKS

HISTORY OF FIELD OPERATIONS

TP-00249

1. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.S. Tibbetts	1975-1976
2. HORIZONTAL CONTROL	RECOVERED BY R.S. Tibbetts	3/75, 8/75
	ESTABLISHED BY NA	
	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 R.S. Tibbetts	8/12/75
	LOCATED (Field Methods) BY R.S. Tibbetts	7/29/75
	IDENTIFIED BY R.S. Tibbetts	7/75-11/75
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE BY ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	NA
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	NA
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
All field operations were performed under Job CM-7508			

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Refer to 76-40 listings bound with this Descriptive Report

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. 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)

All field records are on file under Job CM-7508

RECORD OF SURVEY USE

TP-00249

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	10/19/78	Class III Map		
Final Review Completed	8/7/79	Field Edit Canceled Class III Map	10/3/79	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

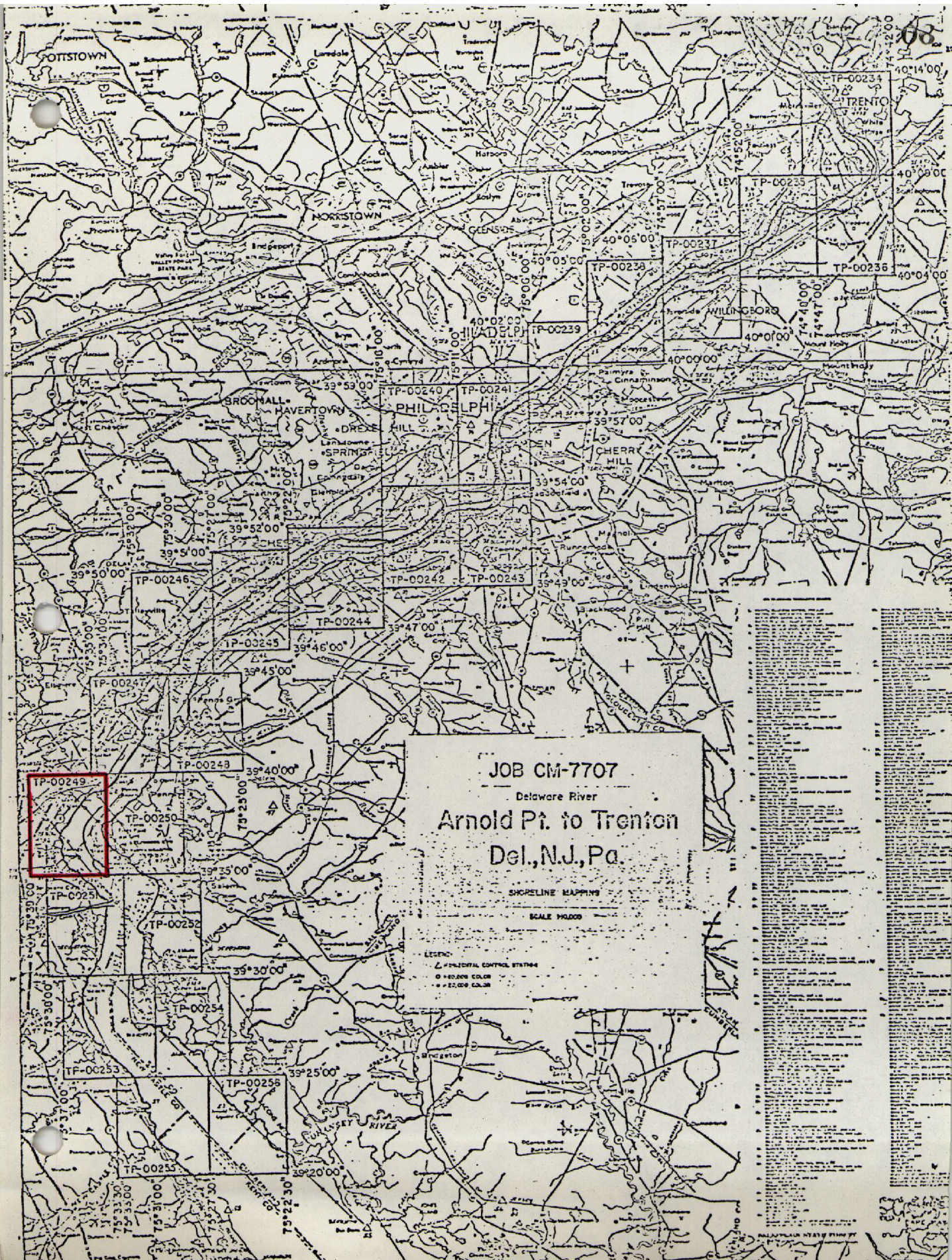
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☐ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 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: _____

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

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



JOB CM-7707

Delaware River

Arnold Pt. to Trenton
Del., N.J., Pa.

SHORELINE MAPPING

SCALE 1:50,000

LEGEND:
△ PRINCIPAL CONTROL STATION
○ 1:50,000 COLOR
● 1:25,000 COLOR

FIELD INSPECTION

There was no field inspection performed under Job CM-7707. Field work prior to compilation was accomplished under Job CM-7508. This field work consisted of the recovery and identification of horizontal control and the locating or photoidentifying of landmarks, non-floating aids, and supplement objects.

Photogrammetric Plot Report
Delaware River
Arnold Point to Trenton, Delaware, New Jersey
Job CM-78057508
October 15, 1976

21. Area Covered

This report covers Delaware River from Arnold Point to Trenton, Delaware, New Jersey.

22. Method

Nineteen strips of photography were bridged by analytic aerotriangulation methods and adjusted to ground on the New Jersey State Plane Coordinate System. Four strips of 1:60,000 photography were bridged to establish control for the bridging of 1:20,000 photography. Fifteen strips of 1:20,000 were bridged to determine positions of field identified landmarks, aids to navigation, and supplemental objects. This data was processed on 76-40 forms. Overlay sheets of these positions were plotted on the Coradomat using the same scale of published nautical charts, 12311 (C&GS 294), 12312 (C&GS 295), 12313 (C&GS 280) and inset, 12314 (C&GS 296), and 12277 (C&GS 570) eastern half only, west to longitude 38'.

Overlay sheets, 76-40 forms, and output cards of the 76-40 program were forwarded to the Special Projects Section for final preparation, which on ~~completion~~ ^{completion} will be routed to the Marine Chart Division.

23. Adequacy of Control

The horizontal control provided was adequate except for Navy, 1925 paneled station which did not hold in the adjustment. No apparent reason was determined and the station was dropped from the adjustment.

24. Supplemental Data

Local shoreline and U.S. Geological Survey quadrangles were used to provide elevations for vertical adjustments of bridges.

25. Photography

RC-8 and RC-10 color positives were adequate as to coverage, overlay, and definition.

Submitted by:

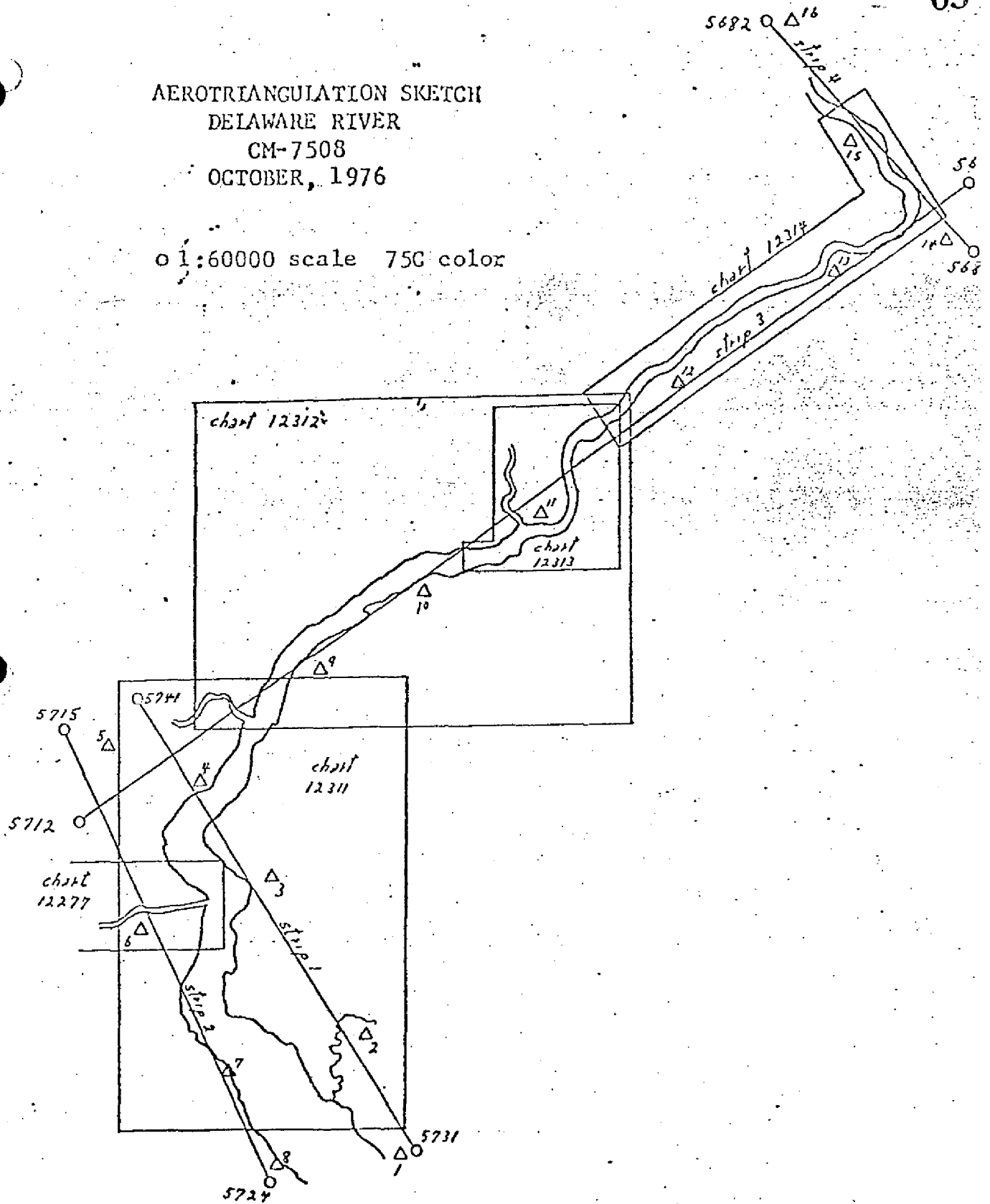
Robert B. Kelly
R. B. Kelly

Approved and Forwarded:

John D. Perrow Jr.
J. D. Perrow, Jr.

AEROTRIANGULATION SKETCH
DELAWARE RIVER
CM-7508
OCTOBER, 1976

01:60000 scale 75C color



fit to control
(feet)

strip 1

1 WELLS, 1975	(0.5, 0.3)
2 WILLIS, 1933	(0.6, 0.5)
3 SALEM, 1933	(0.9, 1.5)
4 NEW CASTLE BELLANCA AIRPORT SQUAT W.T., 1933	(0.2, 4.5)
5 CHRIS 2, 1962	(0.8, 2.8)

strip 2

5 CHRIS 2, 1962	(0.1, 0.3)
6 CARROW, 1933	(0.0, 0.8)
7 DELAWARE (USE) 1932	(0.3, 1.0)
8 BOMBAY (USE) 1933	(0.2, 0.5)

strip 3

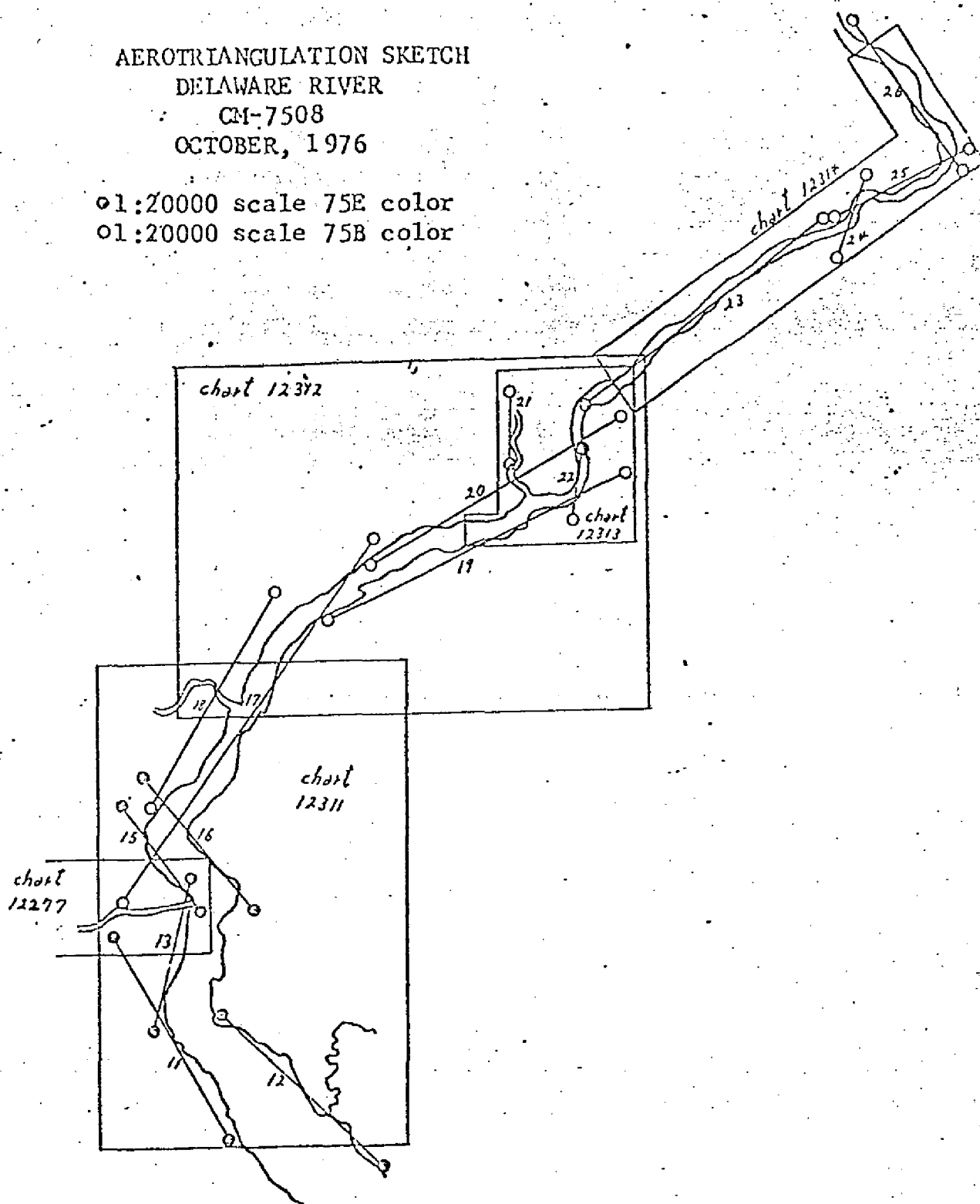
14 FAIRVIEW, 1933	(0.3, 0.9)
13 STAND RM1, 1933	(0.2, 0.8)
12 PALMYRA RIVERTON-PALMYRA WATER CO. STANDPIPE, 1933	(1.7, 1.8)
11 PHILA NAVY YARD POWER PLANT WATER TANK, 1933	(1.5, 1.4)
10 GIBBSTOWN MUNICIPAL WATER TANK, 1933	(1.3, 0.9)
9 DEPOT, 1933	(2.2, 0.3)
5 CHRIS 2, 1962	(0.6, 0.2)

strip 4

16 GOAT HILL, 1876	(0.0, 0.0)
15 YARDLEY MUNICIPAL STANDPIPE, 1933	(0.0, 0.0)
14 FAIRVIEW, 1933	(0.0, 0.0)

AEROTRIANGULATION SKETCH
DELAWARE RIVER
CM-7508
OCTOBER, 1976

01:20000 scale 75E color
01:20000 scale 75B color



INDEX TO 1:20,000 PHOTOGRAPHS
DELAWARE RIVER
CM-7508

STRIP 11A 75E(C) 8679-8681
" 11B 75E(C) 8684-8686
" 11C 75E(C) 8689-8691

STRIP 12A 75E(C) 8713-8715
" 12B 75E(C) 8719-8721
" 12C 75E(C) 8722-8725

STRIP 13 75E(C) 8777-8784

STRIP 15 75E(C) 8735-8741

STRIP 16A 75E(C) 8746-8748
" 16B 75E(C) 8753-8755

STRIP 17A 75B(C) 4742-4745
" 17B 75B(C) 4746-4763

STRIP 18 75B(C) 4772-4784

STRIP 19A 75B(C) 4792-4795
" 19B 75B(C) 4797-4809

STRIP 20A 75B(C) 4812-4814
" 20B 75B(C) 4818-4830

STRIP 21 75B(C) 4843-4846

STRIP 22 75B(C) 4879-4882

STRIP 23 75B(C) 4894-4907

STRIP 24A 75B(C) 4942-4944
" 24B 75B(C) 4946-4948

STRIP 25 75B(C) 4911-4920

STRIP 26 75B(C) 4925-4937

Photogrammetric Plot Report
Delaware River
Arnold Pt. to Trenton, New Jersey
CM-7707
November 17, 1977

13

Project CM-7707 is a continuation of CM-7508. Briefly, in CM-7508, positions of landmarks, aids to navigation, and supplemental objects were determined by photogrammetric methods. In CM-7707, shoreline maps are to be compiled. The photography and control are the same for both projects. Additional photos were bridged for CM-7707 to give complete shoreline coverage.

21. Area Covered

The area covered is the Delaware River from Arnold Point, near the mouth of the Cohansey River to Trenton, New Jersey. This area is covered by 23 1:10,000 scale sheets. They are numbered TP-00234 thru TP-00256.

22. Method

Twenty strips of photography were bridged by analytic aerotriangulation methods and adjusted to ground on the New Jersey State Plane Coordinate system. Four strips of 1:60,000 scale photography were bridged to control sixteen strips of 1:20,000 scale photography. (see attached aerotriangulation sketch for photos).

23. Adequacy of Control

The horizontal control was adequate. However, the panel for Navy, 1925 would not fit in the adjustment. No reason could be determined and the station was dropped from the adjustment.

24. Supplemental Data

USGS topographic quadrangles were used to provide vertical control requirements for strip adjustments.

25. Photography

The photography was adequate.

Submitted by,

Don O. Norman

Don O. Norman

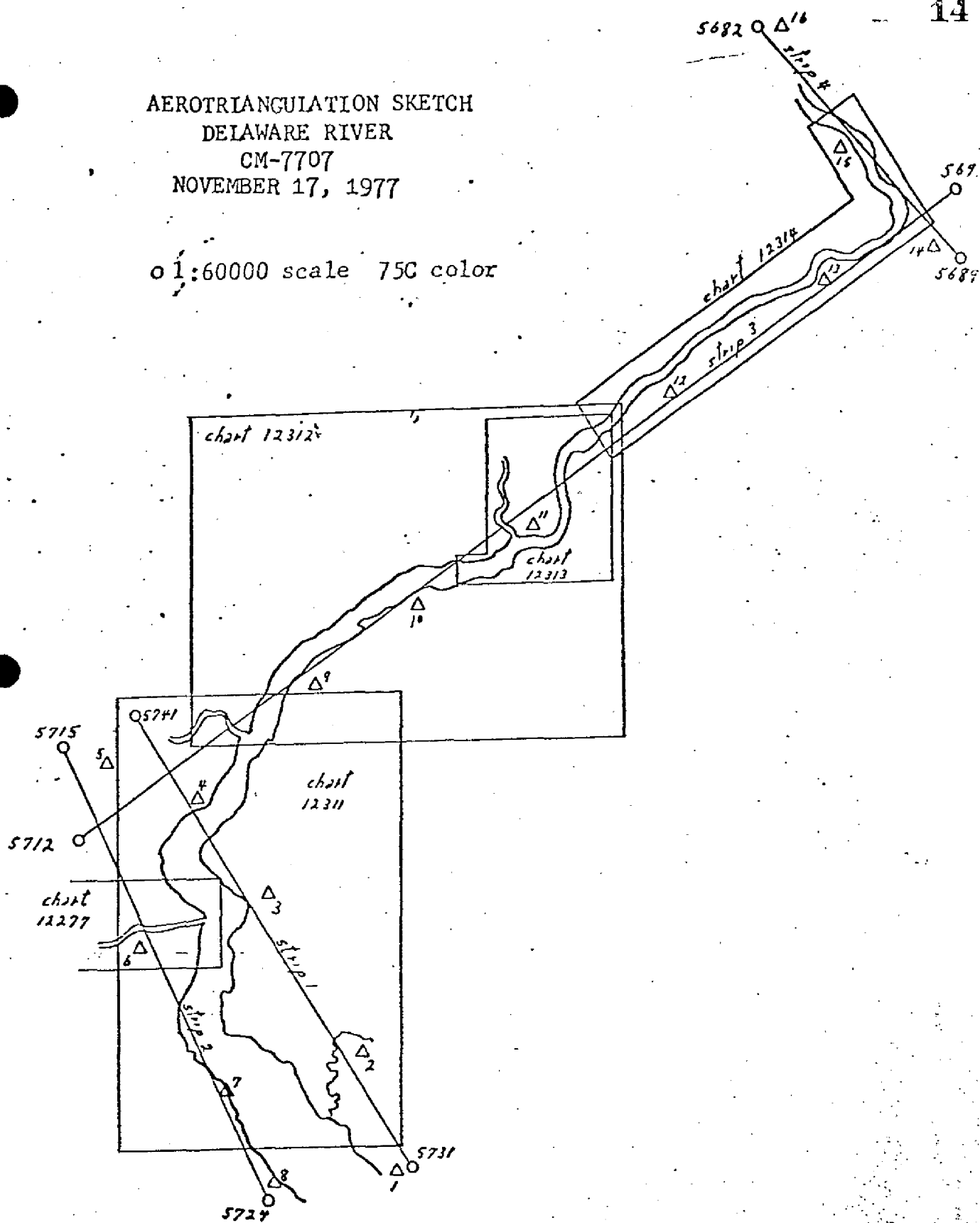
Approved and forwarded:

John D. Perrow, Jr.

John D. Perrow, Jr., Chief,
Aerotriangulation Section

AEROTRIANGULATION SKETCH
 DELAWARE RIVER
 CM-7707
 NOVEMBER 17, 1977

1:60000 scale 75C color



fit to control
(feet)

strip 1

1 WELLS, 1975	(0.5, 0.3)
2 WILLIS, 1933	(0.6, 0.5)
3 SALEM, 1933	(0.9, 1.5)
4 NEW CASTLE BELLANCA AIRPORT SQUAT W.T., 1933	(0.2, 4.5)
5 CHRIS 2, 1962	(0.8, 2.8)

strip 2

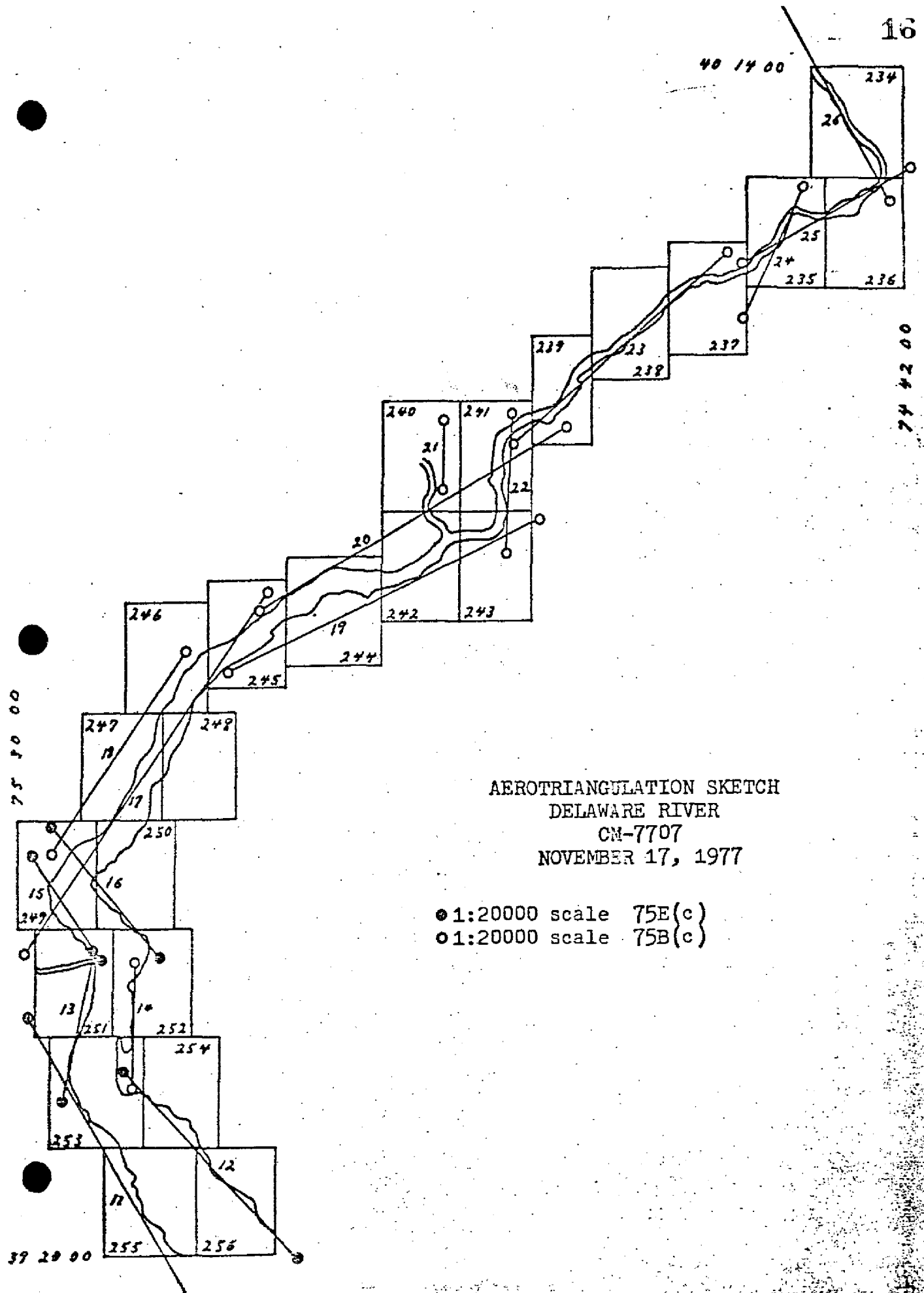
5 CHRIS 2, 1962	(0.1, 0.3)
6 CARROW, 1933	(0.0, 0.8)
7 DELAWARE (USE) 1932	(0.3, 1.0)
8 BOMBAY (USE) 1933	(0.2, 0.5)

strip 3

14 FAIRVIEW, 1933	(0.3, 0.9)
13 STAND RML, 1933	(0.2, 0.8)
12 PALMYRA RIVERTON-PALMYRA WATER CO. STANDPIPE, 1933	(1.7, 1.8)
11 PHILA NAVY YARD POWER PLANT WATER TANK, 1933	(1.5, 1.4)
10 GIBBSTOWN MUNICIPAL WATER TANK, 1933	(1.3, 0.9)
9 DEPOT, 1933	(2.2, 0.3)
5 CHRIS 2, 1962	(0.6, 0.2)

strip 4

16 COAT HILL, 1876	(0.0, 0.0)
15 YARDLEY MUNICIPAL STANDPIPE, 1933	(0.0, 0.0)
14 FAIRVIEW, 1933	(0.0, 0.0)



INDEX TO 1:20,000 PHOTOGRAPHS
DELAWARE RIVER
CM-7707

STRIP 11	75E(C)	8674-8691
STRIP 12A	75E(C)	8713-8721
STRIP 12B	75E(C)	8722-8725
STRIP 13	75E(C)	8777-8784
STRIP 14	75B(C)	4730-4736
STRIP 15	75E(C)	8735-8741
STRIP 16A	75E(C)	8746-8751
STRIP 16B	75E(C)	8753-8755
STRIP 17A	75B(C)	4742-4745
STRIP 17B	75B(C)	4746-4763
STRIP 18	75B(C)	4772-4784
STRIP 19A	75B(C)	4792-4795
STRIP 19B	75B(C)	4797-4809
STRIP 20A	75B(C)	4812-4814
STRIP 20B	75B(C)	4818-4830
STRIP 21	75B(C)	4843-4846
STRIP 22	75B(C)	4879-4882
STRIP 23	75B(C)	4894-4907
STRIP 24A	75E(C)	4942-4944
STRIP 24B	75B(C)	4946-4948
STRIP 25	75B(C)	4911-4920
STRIP 26	75B(C)	4925-4937

Compilation Report
TP-00249

Field and Aerotriangulation work used to complete this map was performed under Job CM-7508 (Del. River). Field operations consisted of aerial photography, premarking of control, and the location or photo-identifying of landmarks and aids. During bridging operations positions were determined for the field identified objects and those located by photogrammetric field methods. A duplicate copy of the Photogrammetric Plot Report for Job CM-7508 is bound with this Descriptive Report. Field records and reports are on file in the National Archives under CM-7508.

31. Delineation

This map was compiled on the Wild B-8 stereoplotter using 1:20,000 scale natural color photography taken in 1975.

32. Control

Refer to the Photogrammetric Plot Reports bound with this Descriptive Report.

The identification, density, and placement of horizontal and vertical control was adequate.

33. Supplemental Data - None

34. Contours and Drainage

All drainage is from office interpretation of the color photography. No contours are shown.

35. Shoreline and Alongshore Details

The mean high water line was compiled by office interpretation of the color photography. No mean low water line was compiled for this map.

Alongshore and foreshore features were delineated by office interpretation of the same photography.

There was no preliminary field inspection of the shoreline.

36. Offshore Detail

No unusual problems were encountered in compiling details offshore.

37. Landmarks and Aids

Positions of landmarks and nonfloating aids were determined under

Job CM-7508. Refer to the Photogrammetric Plot Report (CM-7508) submitted with this Descriptive Report.

Landmarks were Field inspected to determine their values.

Refer to the 76-40 listing prepared for the date and method of location of each object.

38. Control for Future Surveys

No Form 524 was submitted.

39. Junctions

Refer to Form 76-36B, Item 5. of the Descriptive Report.

40. Horizontal and Vertical Accuracy - No comment

41. thru 45. Inapplicable

46. Comparison with Existing Maps

A comparison was made with the following USGS quadrangles:

Wilmington South, Del-NJ., 1:24,000 scale, 1967 Edition

Delaware City, Del-NJ., 1:24,000 scale, 1948 Edition photorevised 1970

St. Georges, Del., 1:24,000 scale, 1953 Edition

No significant differences were noted.

47. Comparison with Nautical Charts

A comparison was made with the following chart:

12311 (formerly C&GS 294), 1:40,000 scale 26th Edition dated 7/30/77

Items to be Applied to Nautical Charts Immediately - None

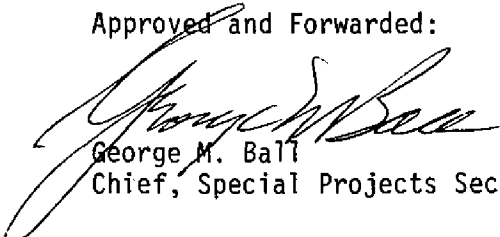
Items to be Carried Forward - None

Submitted by,



B. Baldwin

Approved and Forwarded:



George M. Ball

Chief, Special Projects Section

Final Review Report
CM-7707
Shoreline Survey TP-00249

61. General Statement

Field edit was canceled November 1978 consequently this map is registered as Class III. All landmarks and aids were located in the field for Job CM-7508 which covers this same area. The compilation for that project was canceled December 1975, and all landmarks and aid information has been applied to this project.

The forms 76-40 are not furnished to charts with this job. Duplicate forms were furnished April 1977, with Job CM-7508.

62. thru 64. Inapplicable

65. Comparison with Nautical Charts

This map was compared with the following:

Chart 12311, Pub. July 1977, 26th Edition - 1:40,000 scale

66. Adequacy of Results and Future Surveys

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

Submitted by,

F. R. Watts

F. R. Watts

Approved and Forwarded: ^{Ad}

John D. Perrow Jr.
Chief, Photogrammetric Branch

James L. ...
Chief, Photogrammetry Division

September 11, 1978

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7707 (Delaware River, Del., Pa., N.J.)

TP-00249

Army Creek

Cedar Creek

Deemers Beach

Delaware River

Fort Delaware

Gambles Gut

Hamburg Cove

Killcohook National Wildlife Refuge

Pea Patch Island

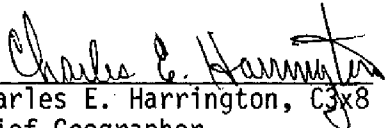
Penns Neck

Red Lion Creek

Reybold Cove

Tom Creek

Approved by:


Charles E. Harrington, C3x8
Chief Geographer

SVY	TP-00249	* RPT UNIT	CMD ROCKVILLE, MD.	* PAGE	2 OF 5	
JOB	CM-7707	* STATE	DELAWARE-NEW JERSEY			
PRJ	DEL. RIVER	* LOCALITY	DELAWARE RIVER	* ORIGINATING	ACTIVITY	
DTM	NA 1927	* DATE	07/24/78	* COMPILATION		
THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS						
CHARTING	RECORD REASON FOR DELETION	DESCRIPTION	POSITION	CMD	METHOD AND DATE	CHARTS
NAME	PUT TRIANGULATION NAMES IN ()	LATITUDE	DM	ALTEK	OF LOCATION	
		LONGITUDE	DP	DGTZD	OFFICE	FIELD
						AFFECTED
MAIN CHANNEL						
MARKER	PEA PATCH ISLAND SPECIAL	39 36 14.22	438.5	NOT	P-5	12311
PPA	WARNING MARKER	75 35 04.72	112.6	DGTZD	7/28/75	
MARKER	PEA PATCH ISLAND SPECIAL	39 36 32.21	993.4	NOT	P-5	12311
PPB	WARNING MARKER	75 35 13.89	331.4	DGTZD	7/28/75	
MARKER	PEA PATCH ISLAND SPECIAL	39 36 38.74	1194.8	NOT	P-5	12311
PPC	WARNING MARKER	75 35 15.55	370.9	DGTZD	7/28/75	
MARKER	PEA PATCH ISLAND DIKE	39 36 51.75	1596.0	NOT	P-5	12311
PPD	WARNING MARKER	75 35 18.85	449.6	DGTZD	7/28/75	
MARKER	PEA PATCH ISLAND SPECIAL	39 37 11.49	354.4	NOT	P-5	12311
PPD	WARNING MARKER	75 35 19.09	455.3	DGTZD	11/18/75	
FRONT	BULKHEAD BAR RANGE	39 39 18.73	577.6	NOT	P-5	12311
LIGHT		75 34 23.47	559.5	DGTZD	11/13/75	
FRONT	BULKHEAD BAR RANGE	39 39 38.97	1201.9	NOT	P-5	12311
LIGHT		75 34 19.72	470.1	DGTZD	11/13/75	
FRONT	BULKHEAD BAR RANGE	39 37 37.34	1151.6	NOT	P-5	12311
LIGHT		75 35 10.62	253.3	DGTZD	7/29/75	
MARKER	PEA PATCH ISLAND SPECIAL	39 37 49.12	1514.9	NOT	P-5	12311
PPF	WARNING MARKER	75 35 04.06	96.8	DGTZD	7/28/75	
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TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
POSITIONS DETERMINED	R. TIBBETTS	R. WELLS
AND/OR VERIFIED BY	D. NORMAN	G. FROMM
FIELD AND OFFICE	NOT DIGITIZED	
ACTIVITIES	G. FROMM	
		FIELD REPRESENTATIVE
		OFFICE COMPILER
		DIGITIZER
		DATA PROCESSOR

* SVY	TP-00249	*	NONFLOATING AIDS FOR CHARTS	* RPT UNIT	CMD ROCKVILLE, MD.	* PAGE 3 OF 5
* JOB	CM-7707	*		* STATE	DELAWARE-NEW JERSEY	*
* PRJ	DEL. RIVER*	*	TO BE REVISED	* LOCALITY	DELAWARE RIVER	*ORIGINATING ACTIVITY*
* DTM	NA 1927	*		* DATE	07/24/78	* COMPILATION *

* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

[illegible][illegible]

* * MARKER	*	PEA PATCH ISLAND DIKE
* *	*	
* *	**	39 38 31.09 958.8 NOT *
* *	**	75 34 19.16 456.9 DGTZ*
* *	**	P-5 *
* *	**	7/28/75 *
* *	**	12311 *

[illegible]

* LIGHT	*	PEA PATCH ISLAND DIKE	*	39	38	41.81	1289.4	NOT	*	F-3-6-L	*	12311	*
* E	*		*	75	34	06.76	161.2	DGT2D*	*	7/29/75	*		*

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FIELD INSPECTION.

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* AND/OR VERIFIED BY *
D • NORMAN G. FROMM
C • NORMAN G. FROMM

FEDERAL BUREAU OF INVESTIGATION
OFFICE COMPILER *

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**
** ACTIVITIES
**
** G. FROMM
** DATA PROCESSER
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76-40 PHOTOGRAMMETRIC BRANCH
LISTING COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

DATAAB
VERSION
770818

* SVY TP-00249 * LANDMARKS FOR CHARTS * RPT UNIT CMD ROCKVILLE, MD. * PAGE 5 OF 5 *
* JOB CM-7707 * TO BE REVISED * STATE DELAWARE-NEW JERSEY *
* PRJ DEL. RIVER * * LOCALITY DELAWARE RIVER * ORIGINATING ACTIVITY *
* DTM NA 1927 * DATE 07/24/78 * COMPILATION *
* THE FOLLOWING OBJECTS HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *
* * * * *
* CHARTING* RECORD REASON FOR DELETION * POSITION CMD * METHOD AND DATE * CHARTS *
* NAME * PUT TRIANGULATION NAMES IN () * LATITUDE DM ALTEK* OF LOCATION * FIELD * AFFECTED *
* * * * *

* RADIO * STATE POLICE R ANTENNA * 39 39 26.52 817.9 NOT * P-5 * 12311 *
* TOWER * PAINTED ALTERNATE R AND W * 75 36 41.74 995.1 DGTZD* * 11/14/75 *
* * * * *
* STACK * AMOCO CHEM CORP STACK PAINTED * 39 38 59.06 1821.4 NOT * P-5 * 12311 *
* * ALTERNATE RED AND WHITE * 75 35 49.35 1176.6 DGTZD* * 7/15/75 *
* * * * *
* TANK * (NEW CASTLE DEL RAYON CO TALL * 39 38 47.48 1464.3 NOT * TRIANG REC* 12311 *
* * BLK WATER TANK 1933) WHITE * 75 35 35.11 837.1 DGTZD* * 7/15/75 *
* * * * *
* TOWER * (HAMBURG USE 1932) SEXTANT TWR * 39 37 40.39 1245.6 NOT * TRIANG REC* 12311 *
* * * 75 36 27.85 664.2 DGTZD* * 8/12/75 *
* * * * *
* STACK * DELMARVA POWER CO STACK * 39 35 36.16 1115.2 NOT * F-3-6-L * 12311 *
* * PAINTED RED AND WHITE * 75 38 04.06 96.9 DGTZD* * 11/12/75 * 12277 *
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* TYPE OF ACTION * NAMES OF RESPONSIBLE PERSONNEL * ORIGINATOR *
* * * * *
* OBJECTS INSPECTED FROM SEAWARD * PHOTO FIELD PARTY 62 * PHOTO FIELD PARTY *
* * * * *
* POSITIONS DETERMINED * R. TIBBETTS R. WELLS * FIELD REPRESENTATIVE *
* AND/OR VERIFIED BY * O. NORMAN G. FROMM * OFFICE COMPILER *
* FIELD AND OFFICE * NOT DIGITIZED * DIGITIZER *
* ACTIVITIES * G. FROMM * DATA PROCESSER *
* * * * *

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

DATA TAB
VERSION
770818

LISTING

* SVY	TP-00249	*	NONFLOATING AIDS FOR CHARTS	* RPT UNIT	CMD ROCKVILLE, MD.	* PAGE 1 OF 5	*
* JOB	CM-7707	*	TO BE REVISED	* STATE	DELAWARE-NEW JERSEY		*
* PRJ	DEL. RIVER*			* LOCALITY	DELAWARE RIVER	* ORIGINATING ACTIVITY*	
* DTM	NA 1927	*		* DATE	07/24/78	* COMPILATION	*

* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *

**	DESCRIPTION	* POSITION	CMD *	METHOD AND DATE	*
**CHARTING*	RECORD REASON FOR DELETION	* LATITUDE	ALTEK*	OF LOCATION	* CHARTS *
** NAME *	PUT TRIANGULATION NAMES IN ()	* LONGITUDE	DGTZD*	OFFICE * FIELD	*AFFECTED*

*
*

*
*
MAIN CHANNEL
*
*

* * FRONT	* NEW CASTLE RANGE	* 39 38 32.21	993.4	NOT *	* P-5	* 12311 *
* * LIGHT	* *	* 75 35 44.80	1068.2	DGTZD*	* 7/17/75	* *

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NO.	NAME	AGE	SEX	DATE	TIME	REMARKS
12311	NORTH	39	36	05.66	174.6	NOT * P-5
12311	LIGHT	75	36	12.76	304.4	DGTZD* 11/13/75

* SOUTH	* HAMBURG COVE	TRESTLE	* 39	36	04.52	139.4	NOT	* P-5	* 12311
* LIGHT	* *		* 75	36	12.72	303.5	067ZD*	* 11/13/75	* *

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* * *	TYPE OF ACTION	* * *	NAMES OF RESPONSIBLE PERSONNEL	* * *	ORIGINATOR	* * *
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* * POSITIONS DETERMINED * *
* * AND/OR VERIFIED BY * *
* * FIELD AND OFFICE * *
* * ACTIVITIES * *
* *
R. TIBBETTS R. WELLS * * FIELD REPRESENTATIVE * *
D. NORMAN G. FROMM * * OFFICE COMPILER * *
NOT DIGITIZED * * DIGITIZER * *
G. FROMM * * DATA PROCESSER * *

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CM-7707

Delaware River

TP-Sheets 00246 thru 00256

NATIONAL ARCHIVES

18 76-41 Forms

Bridging Printouts

List of triangulation stations reported on NOAA Forms 76-96

List of USGS Quad Coverage

" " Chart Coverage

Tide Data

11 Sets (1 set for each map) 76-40 Forms

2 Project Diagrams with flight lines indicated

Compilation Report

Index to 1:60,000 Photos

Delaware River

CM-7707

NATIONAL ARCHIVES

Strip 1	75C(C) 5729-5743
Strip 2	75C(C) 5715-5724
Strip 3	750(C) 5691-5713
Strip 4	75C(C) 5682-5689

INDEX TO 1:20,000 PHOTOGRAPHS
DELAWARE RIVER
CM-7707

NATIONAL ARCHIVES

STRIP 11	75E(C)	8674-8691
STRIP 12A	75E(C)	8713-8721
STRIP 12B	75E(C)	8722-8725
STRIP 13	75E(C)	8777-8784
STRIP 14	75B(C)	4730-4736
STRIP 15	75E(C)	8735-8741
STRIP 16A	75E(C)	8746-8751
STRIP 16B	75E(C)	8753-8755
STRIP 17A	75B(C)	4742-4745
STRIP 17B	75B(C)	4746-4763
STRIP 18	75B(C)	4772-4784
STRIP 19A	75B(C)	4792-4795
STRIP 19B	75B(C)	4797-4809
STRIP 20A	75B(C)	4812-4814
STRIP 20B	75B(C)	4818-4830
STRIP 21	75B(C)	4843-4846
STRIP 22	75B(C)	4879-4887 ⁶
STRIP 23	75B(C)	4894-4907
STRIP 24A	75B(C)	4942-4944
STRIP 24B	75B(C)	4946-4948
STRIP 25	75B(C)	4911-4920
STRIP 26	75B(C)	4925-4937

CM-7508

Delaware River

NAT'L ARCHIVES

82 76-40 Forms

1 Control Diagram

6 Charts (Field annotated) 12304, 12311, 12277, 12312, 12313,
and 12314

Computer printouts

16 C&GS 738 Forms

19 C&GS 155 Forms

1 Photogrammetric Plot Report

12 76-36C Forms

15 76-72 Forms

410 76-53 Forms

21 76-41 Forms

104 76-40 (Field Copy)

1 Bridging Printout

227 76-96 Forms

Field Inspection Photos:

75E(C) 8755

75E(C) 8672-8691

75E(C) 8710-8729

75E(C) 8774-8785

75B(C) 4729-4738

75E(C) 8730-8742

75E(C) 8743-8754

75B(C) 4739-4763

75B(C) 4764-4786

75B(C) 4787-4811

75B(C) 4812-4838

75B(C) 4839-4849

75B(C) 4878-4888

75B(C) 4894-4910

75B(C) 4911-4921

75B(C) 4922-4937

