

TP-00240

TP-00240

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-00240
Classification No. III Edition No. L

LOCALITY

State New Jersey - Pennsylvania
General Locality Delaware River
Locality Schuylkill River

19 75 TO 19 76

REGISTRY IN ARCHIVES

DATE

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 Coastal Mapping Division, Rockville, Md.		SURVEY TP. <u>00240</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB <u>XX CM-7707</u>	
OFFICER-IN-CHARGE Commander 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	
Instruction - 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 Traverse Mercator Projection		4. GRID(S) STATE New Jersey ZONE	
5. SCALE 1:10,000		STATE Pennsylvania ZONE South	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	
DATE			
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY		R. Kelly 10/15/76 D. Norman 10/15/76	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		H. Jones 7/1/77 NA	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		B. Baldwin 5/6/78 L. Harrod 5/6/78	
INSTRUMENT: WILD B-8 SCALE: 1:10,000		NA NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY		B. Baldwin 6/9/78 L. Harrod 6/9/78	
METHOD: Smooth Drafting SCALE: 1:10,000		NA NA NA NA	
HYDRO SUPPORT DATA BY CHECKED BY		NA NA	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		G. Fromm 7/21/78 NA	
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		NA	
7. COMPILATION SECTION REVIEW BY		G. Fromm 9/14/78	
8. FINAL REVIEW BY		J. Phillips 9/18/78	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		NA	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		NA	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		K.T. Cate 11/78	

TP-00240

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) WILD RC-10(B) Camera
Focal length = 152.74 mmTYPES OF PHOTOGRAPHY
LEGEND

TIME REFERENCE

TIDE STAGE REFERENCE

☒ PREDICTED TIDES☐ REFERENCE STATION RECORDS☐ TIDE CONTROLLED PHOTOGRAPHY

(C) COLOR

(P) PANCHROMATIC

(I) INFRARED

ZONE

Eastern

☒ STANDARD

MERIDIAN

75th

☐ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
75B(C) 4819 - 4820	8/28/75	956-1006	1:20,000	+ 1.49 ft. MLW
75B(C) 4843 - 4846	8/28/75	1019-1023	1:20,000	+ 1.52 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:

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

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No Contemporary Survey	TP-00241	TP-00242	No Contemporary Survey

REMARKS

TP-00240

HISTORY OF FIELD OPERATIONS

I. ☒ 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	Feb. 1976
	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	Feb. 1976
	LOCATED (Field Methods) BY R. S. Tibbetts	Feb. 1976
	IDENTIFIED BY R. S. Tibbetts	Feb. 1976
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	BY 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)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

Refer to 76-40 listing 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

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

TP-00240

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	7/21/78	Class III map		
Final compilation completed	9/14/78	Field Edit canceled		
Final review complete prior to registration	9/18/78	Class III 1st. Edition	9-21-78	10-12-78

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
2			LDMKS
1			Deleted

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

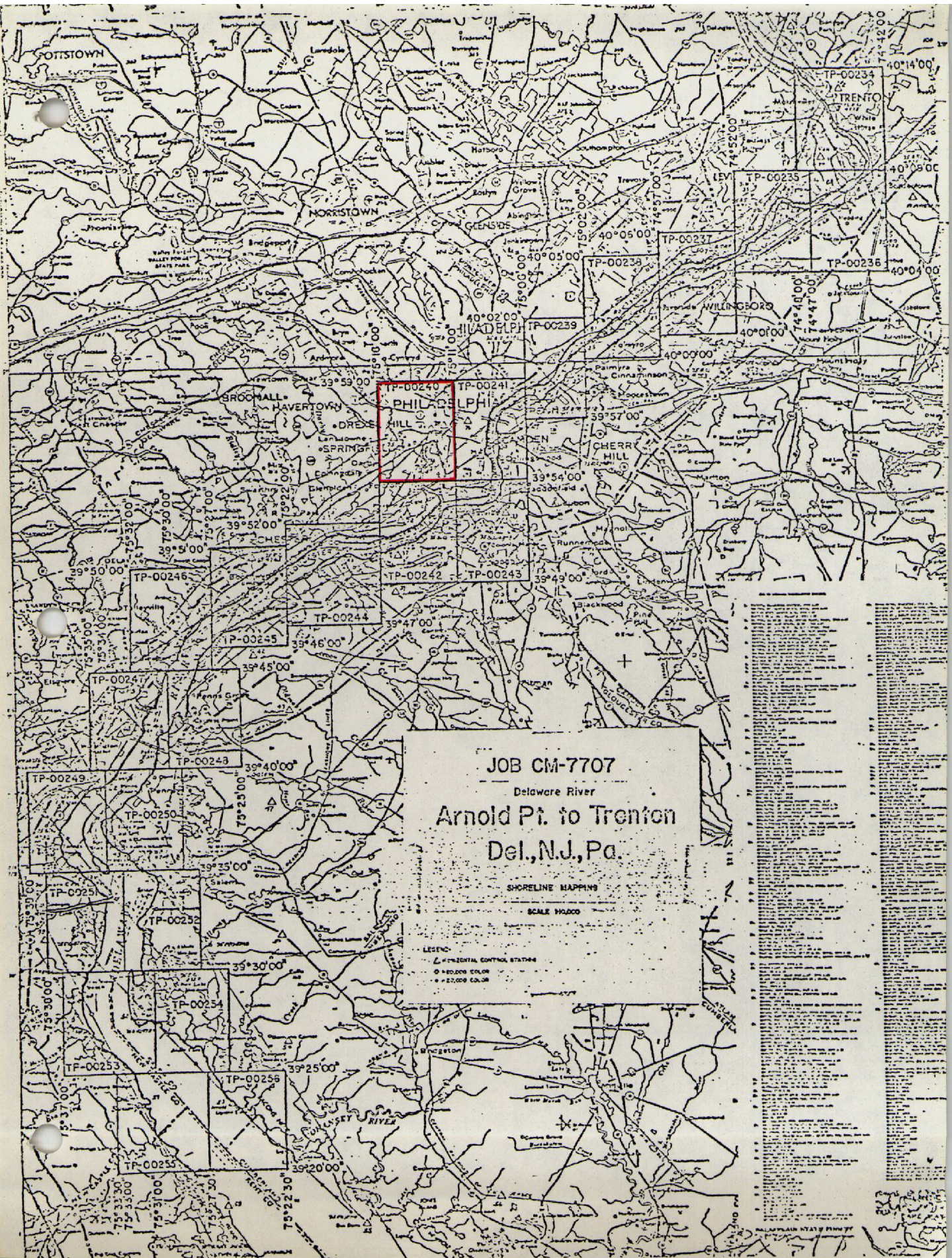
III. FEDERAL RECORDS CENTER DATA

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



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:

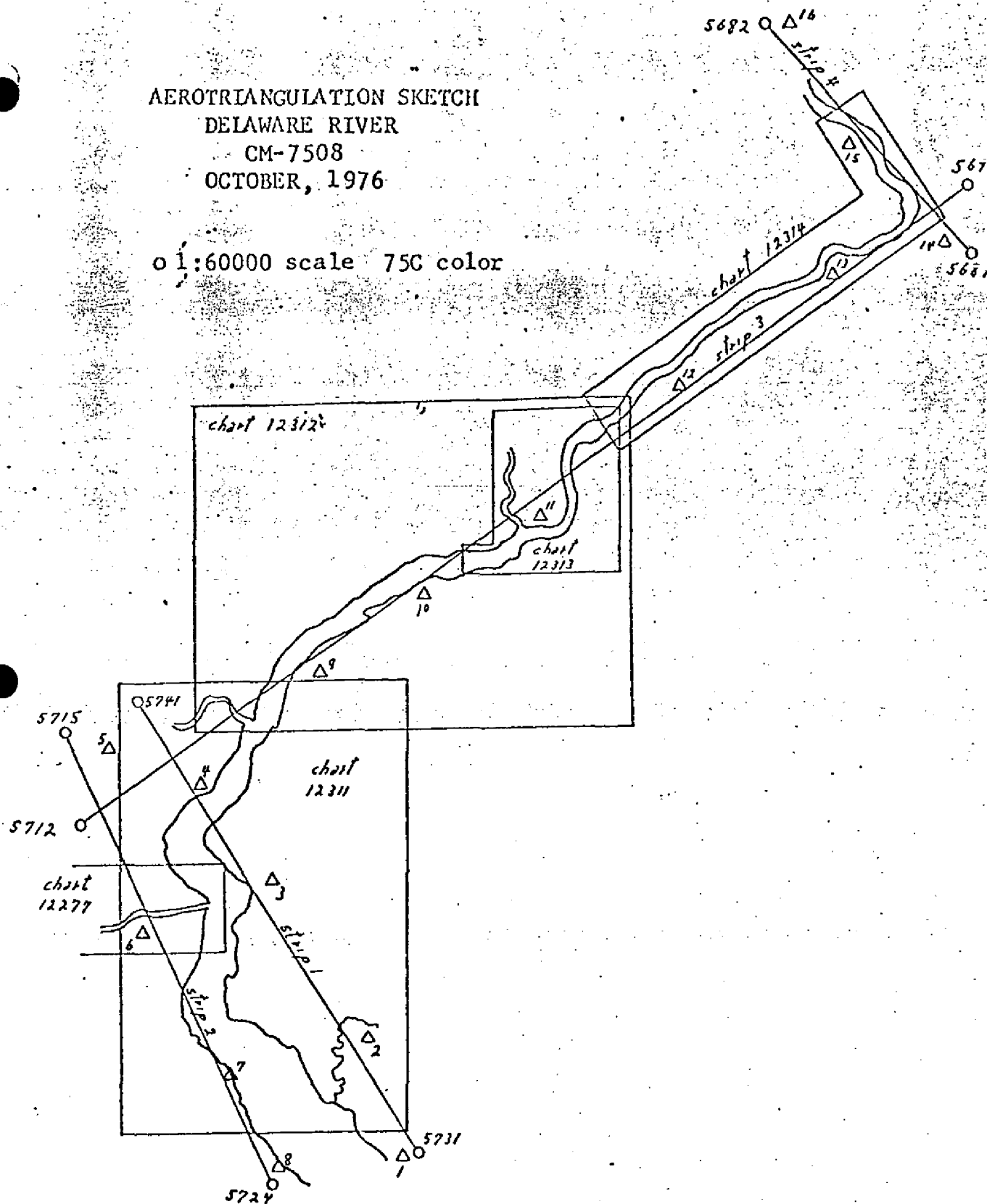
Robert B. Kelly
R. B. Kelly

Approved and Forwarded:

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

AEROTRIANGULATION SKETCH
DELAWARE RIVER
CM-7508
OCTOBER, 1976

o 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 BELLIANCA 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

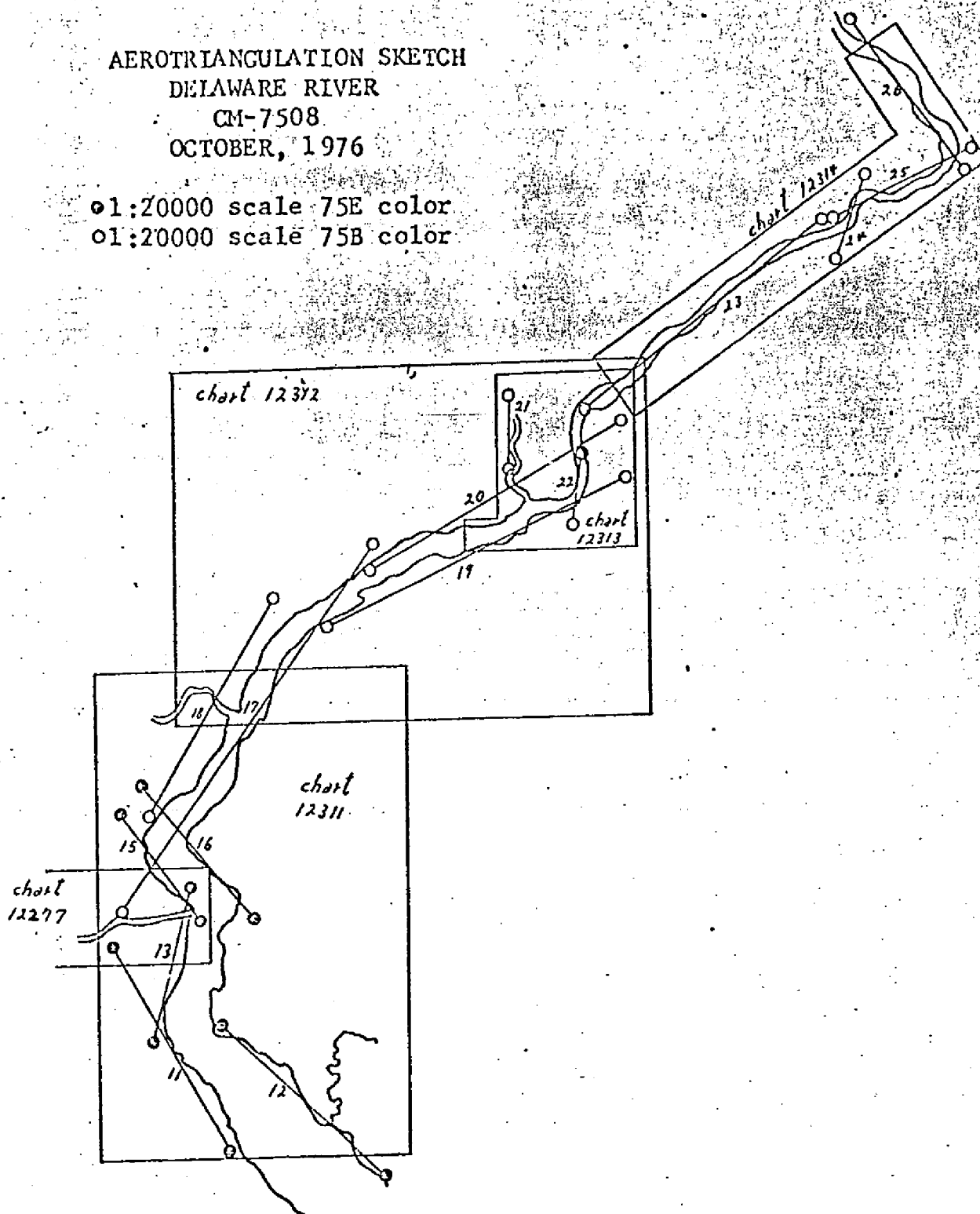
14 FAIRVIEW, 1933	(0.3, 0.9)
13 STAND RM1, 1933	(0.2, 0.8)
12 PALMYRA RIVERTON-PALMYRA WATER CO. STANDPIPE, 1933	(1.7, 1.8)
11 PHILA NAVY YARD POWER PLANT WATER TANK, 1933	(1.5, 1.4)
10 GIBBSTOWN MUNICIPAL WATER TANK, 1933	(1.3, 0.9)
9 DEPOT, 1933	(2.2, 0.3)
5 CHRIS 2, 1962	(0.6, 0.2)

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

o 1:20000 scale 75E color
o 1:20000 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) 4879-4886

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

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,

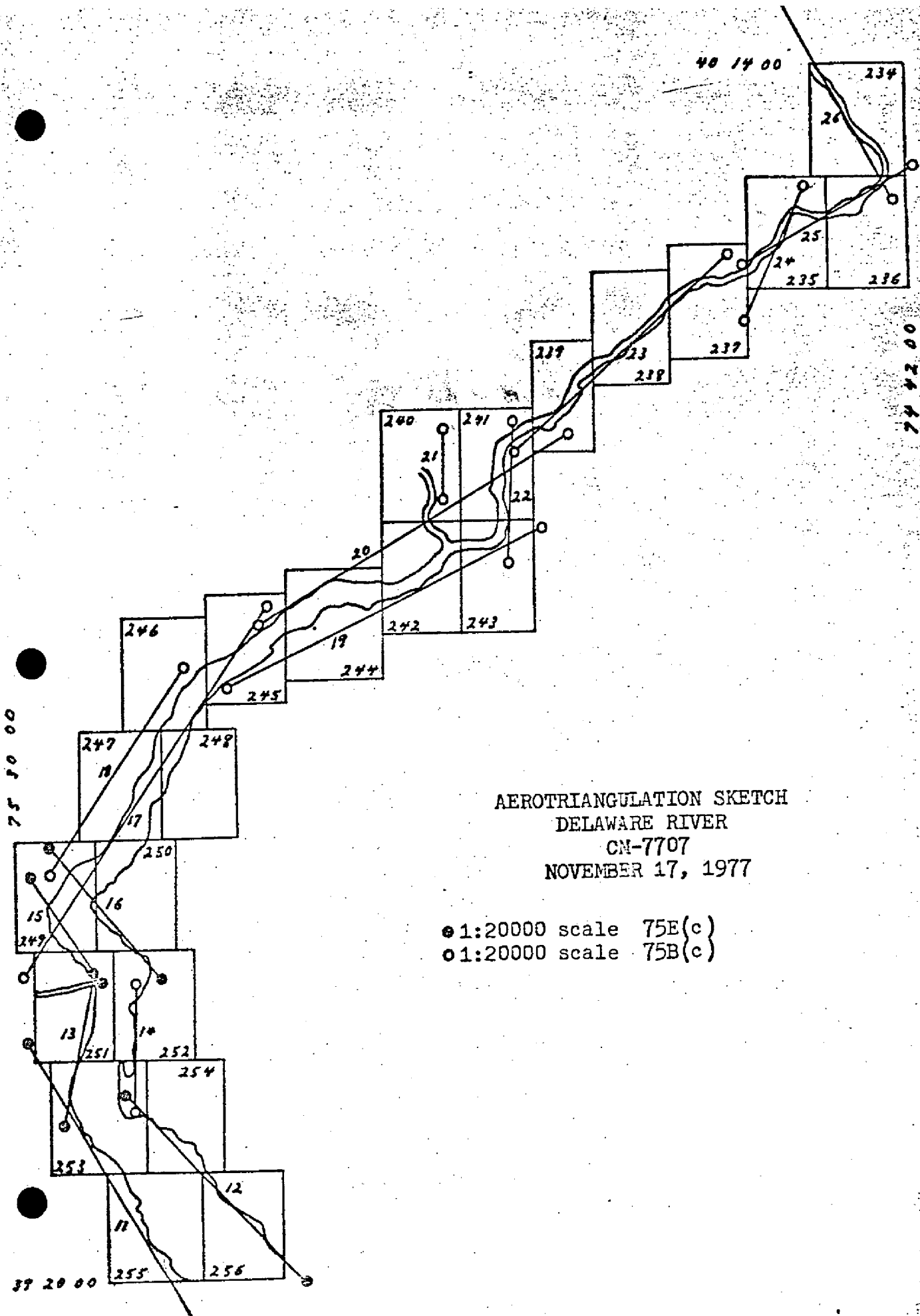
Don O. Norman

Don O. Norman

Approved and forwarded:

John D. Perrow, Jr.

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



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)	4879-48826
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

Compilation Report

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 photoidentifying 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 - None34. Contours and Drainage

All drainage is from office interpretation of the color photography.

35. Shoreline and Alongshore Details

The mean high and mean low water lines were compiled by office interpretation of the color photography.

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 listings prepared for the date and method of locations 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 quadrangle(s):

Philadelphia, PA - NJ, 1:24,000, 1967 Edition photo revised 1973.

No significant differences were noted.

47. Comparison with Nautical Charts

A comparison was made with the following charts:

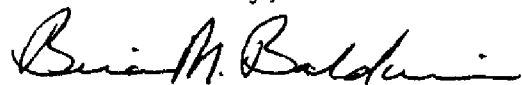
12313 (formerly C&GS 280), 1:15,000 scale, 30th Edition dated 9/3/77.

12312 (formerly C&GS 295), 1:40,000 scale, 33th Edition dated 6/9/77.

Items to be Applied to Nautical Charts Immediately - None

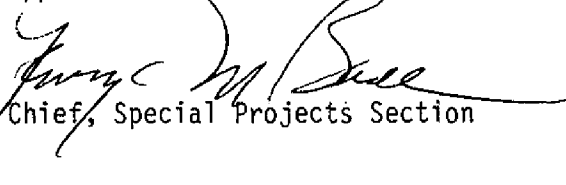
Items to be Carried Forward - None

Submitted by,



Brian Baldwin

Approved and Forwarded:



Chief, Special Projects Section

Final Review Report
CM-7707
Shoreline Survey TP-00240

61. General Statement

This map is registered as Class III since field edit was canceled in July 1978...

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 12312, Scale 1:40,000, 33rd Edition, pub. July 1977

Chart 12313, Scale 1:15,000, 30th Edition, pub. Sept. 3, 1977

One landmark is shown on the chart that was plotted from information obtained from Job CM-7508. The position was furnished the Coast Guard for re-positioning buoys. It was not inspected from seaward to determine value as a landmark, and it is not shown on this map or listed on the 76-40 form. *GR?*

66. Adequacy of Results and Future Surveys

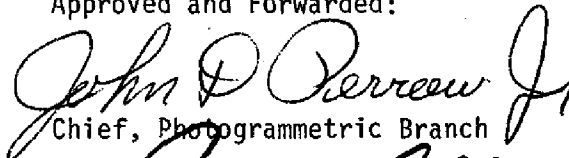
This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by,

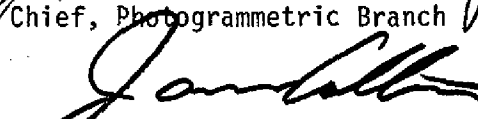


J. B. Phillips

Approved and Forwarded:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

September 11, 1978

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-00240

Conrail (RR)

Gibson Point

Harkness Point

Lemon Hill

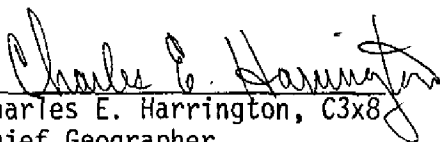
Philadelphia

Point Breeze

Schuylkill River

Yankee Point

Approved by:


Charles E. Harrington, C3x8
Chief Geographer

TERMINAL
VERSION
20/76

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

76-40
LISTING

* SVY TP-00240 * * RPT UNIT CMD ROCKVILLE, MD. * PAGE 1 OF 3 *

* JOB	CM-7707	* LANDMARKS FOR CHARTS	* STATE	PENNSYLVANIA	* ORIGINATING ACTIVITY*
* PRJ	DEL. RIVER*	TO BE DELETED	* LOCALITY	DELAWARE RIVER	* COMPILATION
* DTM	NA 1927		* DATE	08/03/77	

* THE FOLLOWING OBJECTS HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *

* * *	* DESCRIPTION	* POSITION	* CODES*	* METHOD AND DATE	* *
* CHARTING*	RECORD REASON FOR DELETION	* LATITUDE	C-C	OF LOCATION	* CHARTS *
* NAME *	PUT TRIANGULATION NAMES IN ()	* LONGITUDE	SEQ	OFFICE * FIELD	* AFFECTED*

* TOWER	* REMOVED	* 39	* 57	* 18.00	* 555.2	* NOT	* 12313
* *	* *	* 75	* 12	* 00.00	* 0.0	* DGTZD*	* 2/13/76 *

* TOWER	* REMOVED	* 39	* 57	* 18.00	* 555.2	* NOT	* 12313
* *	* *	* 75	* 12	* 06.00	* 142.4	* 06TZD*	* 2/13/76

[illegible]

THE ABOVE POSITIONS OF PREVIOUS CHARTED LANDMARKS
ARE APPROXIMATE.

[illegible]

.....

TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
----------------	--------------------------------	------------

* * * * *

* * * * *	PHOTO FIELD PARTY 62	* * * * *
* * * * *	OBJECTS INSPECTED FROM SEAWARD	* * * * *

* * * * *

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* * POSITIONS DETERMINED
* * AND/OR VERIFIED BY
* * FIELD AND OFFICE
* *
* * R. YIBBETTS R. WELLS
* * D. NORMAN G. FROMM
* *
* * FIELD REPRESENTATIVE
* * OFFICE COMPILER
* *
* * DIGITIZER
* *

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[illegible]

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

* SVY TP-00240 *
* JOB CM-7707 *
* PRJ DEL. RIVER *
* DTM NA 1927 *
* LANDMARKS FOR CHARTS
* TO BE CHARTED
* DATE 08/03/77 *
* RPT UNIT CMD ROCKVILLE, MD. *
* STATE PENNSYLVANIA *
* LOCALITY DELAWARE RIVER *
* ORIGINATING ACTIVITY *
* COMPILATION *
* THE FOLLOWING OBJECTS HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *
* DESCRIPTION * POSITION * METHOD AND DATE *
* CHARTING* RECORD REASON FOR DELETION * LATITUDE DM C-C * OF LOCATION * CHARTS *
* NAME * PUT TRIANGULATION NAMES IN () * LONGITUDE DP SEQ * OFFICE * FIELD * AFFECTED *

* STACK * PHILA ELECTRIC CO LARGEST * 39 56 31.39 968.1 NOT * P-5 * 12312 *
* (J's H-4442) * STACK * 75 11 17.09 405.7 DGTZD * 2/13/76 * 12313 *
* 758C4844 *
* STACK * GULF NORTH STACK * 39 54 32.60 1005.4 NOT * P-5 * 12312 *
* 75 12 46.88 1113.5 DGTZD * 2/12/76 * 12313 *
* 758C4820 *
* STACK * PHILA GULF REFINING CO STACK * 39 54 09.58 295.5 NOT * P-5 * 12312 *
* 75 12 44.58 1059.0 DGTZD * 2/12/76 * 12313 *
* 758C4820 *
* * * * *
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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 * D. NORMAN G. FROMM * OFFICE COMPILER
* FIELD AND OFFICE * NOT DIGITIZED * DIGITIZER
* ACTIVITIES * L. HARROD * DATA PROCESSER

