

TP-01126

TP-01126

NOAA FORM 76-35 (3-78) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<h2>DESCRIPTIVE REPORT</h2>	
Map No. TP-01126	Edition No. 1st
Job No. CM-8104	
Map Classification Final	
Type of Survey Shoreline	
LOCALITY	
State New York	
General Locality Niagara River	
Locality Niagara Falls	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 19 80 TO 19 82 </div>	
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 <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division AMC, Norfolk, VA		SURVEY TP. <u>01126</u> MAP EDITION NO. <u>1</u> MAP CLASS <u>Final</u> JOB # <u>CM-8104</u>	
OFFICER-IN-CHARGE Max Ethridge		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation August 12, 1981 Compilation January 15, 1982 Letter (Registration)		Photo ID Control August 25, 1981	
II. DATUMS			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify) International Great Lakes Datum (1955)	
3. MAP PROJECTION Transverse Mercator		4. GRID(S) STATE <u>New York</u> ZONE <u>West</u>	
5. SCALE 1:20,000		STATE _____ ZONE _____	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY		<u>B. Thornton</u>	<u>Sept 1981</u>
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Corodimat</u> CHECKED BY		<u>"</u> <u>D. Norman</u>	<u>"</u> <u>"</u>
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: <u>Wild B-8</u> SCALE: <u>1:20,000</u> CONTOURS BY		<u>P. L. Evans</u> <u>R. Kravitz</u> <u>NA</u> <u>NA</u>	<u>March 1982</u> <u>"</u>
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: <u>Smooth Drafted</u> CONTOURS BY SCALE: <u>1:20,000</u> CHECKED BY HYDRO SUPPORT DATA BY		<u>P. L. Evans</u> <u>E. Mauldin</u> <u>NA</u> <u>NA</u> <u>P. L. Evans</u> <u>E. Mauldin</u>	<u>April 1982</u> <u>May 1982</u> <u>March 1982</u> <u>April 1982</u>
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		<u>E. Mauldin</u>	
6. APPLICATION OF FIELD EDIT DATA BY		<u>H. Lucas</u>	<u>June 1983</u>
7. COMPILATION SECTION REVIEW BY		<u>R. Kelly</u>	<u>"</u>
8. FINAL REVIEW BY		<u>H. Lucas</u>	<u>July 1983</u>
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		<u>H. Lucas</u>	<u>July 1983</u>
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		<u>R. T. Korman</u>	<u>May 1984</u>

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

COMPILATION SOURCES

TP-01126

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8(E) Focal Length=152-71 mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
80 E (C) 6400-6405	9/27/80	09:04	1:30,000	NA	
80 E (C) 6393-6395	9/27/80	08:50	1:30,000		

REMARKS The Shoreline Datum is the sloping river surface at the time of photography. Based on I.G.L.D. (1955) the river level at the Ashland Avenue Gage, New York, was +323.33 feet and the American Falls Gage, New York, was +558.84 feet. The plane of

2. SOURCE OF MEAN HIGH-WATER LINE: reference for elevations below the falls at Niagara Falls is

WATER LEVEL DATUM: is 323.33 feet and above is 558.84 feet.

The interface of the water surface and the land features is the shoreline, and here showing features along shoreline as piers, seawalls, etc., using office interpretation of color photographs, at the time and date in Item 1, to compile the contents of this map.

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

Not applicable

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
TP-00498*	TP-001127	None	None

REMARKS

This map is from project CM-8000, at 1:20,000 scale.

HISTORY OF FIELD OPERATIONS

TP-01126

I. ☒ FIELD INSPECTION OPERATION (Premarking) → See summary

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J.E. Dunford	Sept. 1981
2. HORIZONTAL CONTROL	RECOVERED BY C. Middleton	Sept 1981
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY C. Middleton	Sept. 1981
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED None		2. VERTICAL CONTROL IDENTIFIED None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details) None			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) Niagara River Photo I.D. Control folder Grand Island - Buffalo Descriptions Terminal Printouts TSN 149-20002 (office copy)			

HISTORY OF FIELD OPERATIONS

TP-01126

1. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Lt. N. Perugini	June 1982
2. HORIZONTAL CONTROL	RECOVERED BY J. Dunford & C. Middleton	"
	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 J. Dunford & C. Middleton	June 1982
	LOCATED (Field Methods) BY "	"
	IDENTIFIED BY "	"
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input type="checkbox"/> NO INVESTIGATION	BY NA
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY C. Middleton & J. Dunford	"
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

NA

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

NOS 9-27-80 EC 6395, 6400, 6402, 6404 and 6426

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

2 range lights located by sextant fix. Lights are not listed in USCG list.
Lights are privately maintained.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
80 EC 6395	Welland River Front Entrance light		
80 EC 6395	Welland River Rear Entrance light		
80 EC 6402	Flagpole (LDMK)		
80 EC 6495	Observation Tower (LDMK)		

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

N/A

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

CSI Forms (NOAA Form 76-53)

Field Edit Report

Field Edit Film Sheet

Field Notebook - Compilations and supplemental data

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

RECORD OF SURVEY USE

TP-01126

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Final Review Map	June 1983	Field Edited Map	Sept 20, 83	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER pages	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
3	# 861	Sept 20, 83	NOAA Forms 76-40

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 76-40 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: MARCH 1984

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 <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

NOAA FORM 76-36D

JOINS JOB CM-8000

TP-01126

43°10'00"

TUSCARORA

INDIAN
RESERVATION

LIMIT OF COMPIATION II

NIAGARA FALLS

NIAGARA FALLS

78°52'00"

43°05'00"

GRAND
ISLAND

NORTH TONAWANDA

TONAWANDA

42°56'18.6"

42°55'00"

TP-01127

THIS AREA COVERED
BY JOB CM-7610

WATER LEVEL GAGE SITES

CM - 8104

NIAGARA RIVER
LEWISTON TO BUFFALO
NEW YORK
SHORELINE MAPPING
SCALE 1:20,000

1. Ashland Ave., Niagara Falls, N.Y.
2. American Falls " " "
3. Niagara Intake " " "
4. Ontario Street, Buffalo, N.Y.

REV. 11-3-81 D.B.

Rev. 5/26/81

Summary to Accompany Descriptive Report

TP-01126

This 1:20,000 scale shoreline map is one to two maps of job CM-8104, Niagara River to Buffalo, New York.

The inclusion effecting TP-01126 starts north along the Niagara River at the cities of Lewiston, N.Y.-Queenston, Canada and south to the cities of Niagara Falls, New York-Chippawa, Canada. These cities are on opposite shores, i.e., Canadian Shore and United States shore.

Field work prior to compilation was accomplished in September 1981 and involved the identification of Horizontal Control by photoidentification method to meet the aerotriangulation requirements.

Photographic coverage was taken in September 1980 for aerotriangulation using the Wild RC-8 EC camera with color film at 1:30,000 scale. The same photography was used for compilation.

Bridging was completed by analytic aerotriangulation and plotting the manuscript projection and control points were done on the cordimat flatbed plotter at the Washington Science Center in September 1981.

Compilation was fulfilled at the Atlantic Marine Center from office interpretation of the 1980 color photography in April 1982. Copies of a Class III map was made available for field edit.

Referring to the Class III map, the original memorandum instructions from the Chief of the Photogrammetry Branch, dated May 13, 1982, required this map to be registered as a Class III map. However, the aforementioned memorandum instructions were superseded and a field edit was done for this map by a field survey party from the Atlantic Marine Center, in July 1982. All of the requirements set forth by the National Ocean Service were performed to conclude this field edit.

The field edit notations, clarifications, corrections, and the like were used or applied to the original map manuscript. The completion of this map and its final review was done in July and August 1983 at Rockville, Md.

PROJECT REPORT

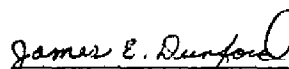
CM-8104, NIAGARA RIVER
LEWISTON TO BUFFALO, NY

The Project was completed according to the instructions by OA/C3 - Roger F. Lanier, dated 8/25/81.

Three Horizontal Control Stations were photoidentified in the areas indicated on the control requirement diagram. Two substitute stations for Station No. 1, WURLITZER 1972, were positioned by 3rd order traverse. Three substitute stations were positioned by 3rd order traverse for Station No. 2, EDGEWATER 2 1981. This station was established by 3rd order traverse and will be submitted to the NGS Control Network. Two substitute stations were positioned by 3rd order traverse for Station No. 3, TAURIELLO 1972.

Field work (including driving time to and from Norfolk) was accomplished during the period Sept. 18 through Sept. 27, 1981.

All records and data sent to OA/CAM513.


James E. Dunford

Photogrammetric Plot Report

Niagara River, New York

CM-8104

September 1981

21. Area Covered

The area covered by this project is Niagara River from Lewiston to Buffalo, New York. The project area is covered by two 1:20,000 scale sheets; TP-001126 and TP-001127.

22. Method

Six strips of 1:30,000 scale photography were bridged by analytic aerotriangulation methods. Horizontal control consisted primarily of office identified intersected stations. Several field identified stations were located to strengthen bridging adjustments. Ratio points were determined for compilation.

The Transverse Mercator, New York West coordinate system was used to adjust the bridging strips.

The manuscripts will be plotted using the same coordinate system.

23. Adequacy of Control

All control checked well within map accuracy standards and is more than sufficient for its intended use.

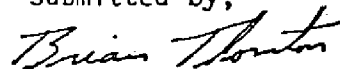
24. Supplemental Data

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

25. Photography

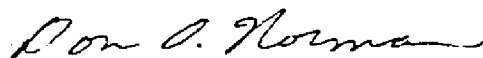
The coverage, overlap, and quality of the 1980 EC photographs were adequate for the job.

Submitted by,

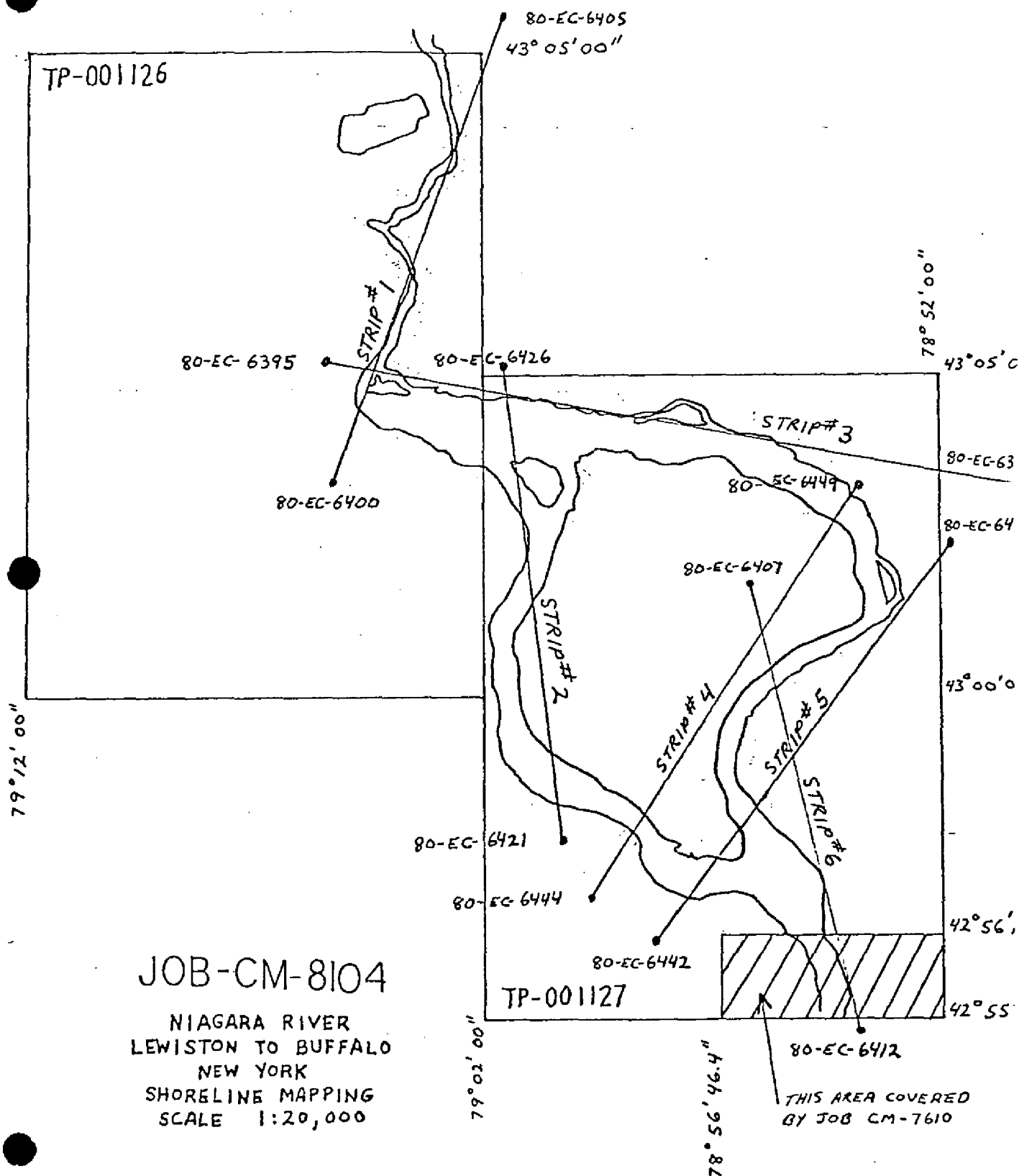


Brian F. Thornton

Approved and Forwarded:



Don Norman
Chief, Aerotriangulation Section



DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETTIC DATUM		GEOGRAPHIC POSITION		REMARKS
				STATE	ZONE	ϕ LATITUDE	λ LONGITUDE	
TP-001126		CM-8:104		NA 1927				
	CHIPPEWA, ENGLISH CHURCH SPIRE, CANADA, 1941	PC P. 40		STATE New York ZONE West				VIS 80 E(C) 6395 Sept. 27, 1980
	MT. CARMEL COLLEGE, CROSS, N.F., ONTARIO, 1941	PC P. 40						Not identifiable on photography
	CONVENT, CROSS, N.F., ONTARIO, 1941	PC P. 40						Not identifiable on photography
	NIAGARA FALLS, SKYLON TOWER, 1972	Quad 430792 Sta. 1012						VIS 80 E(C) 6402 27 Sept. 80
	GENERAL BROCK HOTEL, FLAGPOLE, N.F., CANADA, 1941	PC P. 40						Not identifiable on photography
	HOLY TRINITY CHURCH, CROSS, N.F., NEW YORK, 1941	PC P. 40						VIS 80 E(C) 6395 27 Sept. 80
	ST. PATRICKS CHURCH, SPIRE, N.F., CANADA, 1941	PC P. 39						VIS 80 E(C) 6402 27 Sept. 80
COMPUTED BY				COMPUTATION CHECKED BY				DATE
LISTED BY	P. L. Evans		DATE	LISTING CHECKED BY	W. Connally			DATE 8 Feb. 82
HAND PLOTTING BY			DATE	HAND PLOTTING CHECKED BY				DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-01126	JOB NO. CM-8104	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETTIC DATUM		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY Coastal Mapping Division AMC, Norfolk, VA	REMARKS
					NA 1927	COORDINATES IN FEET STATE New York ZONE West	ϕ LATITUDE λ LONGITUDE			
FIRST CONGREGATIONAL CHURCH, SPIRE, N.F., NEW YORK, 1941	PC p. 40					X= 374,170.06	ϕ	VIS	80 E(C) 6395 27 Sept. 80	
						Y= 1,132,357.34	λ			
SACRED HEART CHURCH, SPIRE, N.F., NEW YORK, 1941	PC p. 40					X= 375,704.50	ϕ	VIS	80 E(C) 6395 27 Sept. 80	
						Y= 1,131,924.48	λ			
WHIRLPOOL AUTOCAR, SOUTH END OF CABLE, CANADA, 1941	PC p. 40					X= 370,324.41	ϕ	VIS	80 E(C) 6303 27 Sept. 80	
						Y= 1,136,428.45	λ			
WHIRLPOOL AUTOCAR, NORTH END OF CABLE, CANADA, 1941	PC p. 39					X= 370,427.43	ϕ	VIS	80 E(C) 6303 27 Sept. 80	
						Y= 1,138,182.27	λ			
NIAGARA UNIVERSITY, CROSS, NEW YORK, 1941	PC p. 39					X= 378,188.03	ϕ	VIS	80 E(C) 6402 27 Sept. 80	
						Y= 1,143,859.03	λ			
BROCK MONUMENT (USLS), 1875	PC p. 27					X= 374,610.85	ϕ	VIS	80 E(C) 6404 27 Sept. 80	
						Y= 1,151,749.97	λ			
						X=	ϕ			
						Y=	λ			
						X=	ϕ			
						Y=	λ			
						X=	ϕ			
						Y=	λ			
						X=	ϕ			
						Y=	λ			
COMPUTED BY						COMPUTATION CHECKED BY			DATE	
LISTED BY	P. L. Evans					LISTING CHECKED BY	W. Connally		DATE	
HAND PLOTTING BY						HAND PLOTTING CHECKED BY			DATE	

COMPILATION REPORT

TP-01126
CM-810431. DELINEATION

All map detail was compiled from photo interpretation of the 1:30,000 scale 1980 color photographs. The photography was adequate. The Wild B-8 stereoplotting instrument was used.

32. CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report, dated September 1981.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are not applicable to this project. Drainage was compiled from office interpretation of the aerial photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The eastern side of the Niagara River below the falls was heavily shadowed causing some difficulty in compiling the water-land interface. The shoreline and alongshore detail were compiled from office interpretation of the photographs. Refer to 76-36B, Item 2 for definition of shoreline.

36. OFFSHORE DETAILS

Offshore details were compiled from office interpretation of the photographs. No unusual problems were encountered.

37. LANDMARKS AND AIDS

Appropriate copies of 76-40 forms are bound with this report.

38. CONTROL FOR FUTURE SURVEYS

None

TP-001126
CM-8104

39. JUNCTIONS

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

40. HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with U.S. Geological quadrangles: Niagara Falls, Ontario-New York, dated 1965, scale 1:24,000; Lewiston, Ontario-New York, dated 1965, scale 1:24,000.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with nautical charts: #14816, 20th edition, dated September 19, 1981, scale 1:30,000; #14832, 28th edition, dated June 13, 1981, scale 1:30,000.

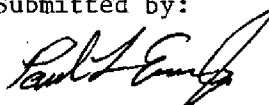
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:



P. L. Evans
Cartographic Technician

Date: March 31, 1982

Approved:



James L. Byrd, Jr.
Chief, Coastal Mapping Section

FIELD EDIT REPORT

TP-01126

CM-8104

51. METHODS

Field edit was performed as prescribed by the National Ocean Survey Standard Field Edit Instructions.

Field edit operations were performed from a skiff, by truck and afoot. Safe navigation is prohibitive over a majority of the waters within the limits of this sheet. In the unsafe areas field edit was performed from observation towers and various vantage points along the shoreline.

All questions addressed to the Field Editor were answered and one question directed to the Hydrographer was answered because the hydrography in this area was performed in 1980 and is not scheduled to be resurveyed within the next 5 years. The rocks in the questioned area were located by intersection for a graphic plot.

There were two range lights discovered during field edit that are uncharted and not listed in the light list. The lights were located by sextant fix (resection).

All clarifying annotations, additions, deletions, changes, etc. are given on field edit ozalid or cross-referenced to the appropriate photo, CSI card, etc.

NOAA Form 75-82A has been initiated for all horizontal control stations listed on this sheet. The original 75-82A's have been retained for entry into NGS Data Base.

52. ADEQUACY OF COMPILATION

Compilation of this manuscript was good. Only minor corrections to the compiled shoreline were necessary.

53. MAP ACCURACY

Pending application of field edit it is believed that this map will be both complete and accurate. See Photogrammetric Plot Report for accuracy of horizontal control.

54. RECOMMENDATIONS

For future field edit projects it is recommended that the

Field Editor be supplied with all of the photographs so that adequate stereo coverage will be available.

55. EXAMINATION OF PROOF COPY

Not required.

Submitted 7/12/82

Approved 7/12/82

C. Middleton
Clifton Middleton

REVIEW REPORT
SHORELINE

TP-01126

61. GENERAL STATEMENT

See Summary included with this Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not Applicable

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S. Geological Survey Quadrangles: Niagara Falls, Ontario-New York, dated 1965, scale 1:24,000 and Lewiston, Ontario-New York, dated 1965, scale 1:24,000.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Contemporary hydrographic survey H-9889 at scale 1:10,000 was being processed by the Verification Branch at Atlantic Marine Center. Therefore, no comparison was made.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS Marine Chart 14816, Scale 1:30,000, 29th Edition, dated September 1981

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

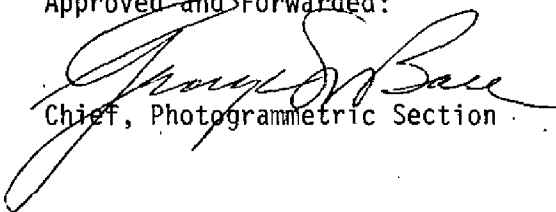
67. LANDMARKS AND AIDS

Additional compilation activity became inevitable after the Field Party located three uncharted fixed aids. They are; the Niagara Mohawk front and rear lights, privately maintained, plotted from latitude and longitude positions ascertained by sextant fixes, and the lighted (green) cable tower at the entrance to the Welland River, south of Two Towers, identified on photographs by the Field Edit Party.

Submitted by,


Henri Lucas

Approved and Forwarded:


Chief, Photogrammetric Section


Chief, Photogrammetry Branch

6-1-1982

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8104 (Niagara Falls, N.Y.)

TP-01126

American Falls

Chippawa

Conrail (RR)

Devils Hole

Dufferin Island

Goat Island

Horseshoe Falls

Lyons Creek

New York

Niagara Falls (N.Y.)

Niagara Falls (Ont.)

Niagara Falls

Niagara Glen

Niagara River

Ontario

Prospect Point

Queenston

Terrapin Point

The Whirlpool

Three Sisters Islands

Welland River

Whirlpool Point

Approved by:

Charles E. Harrington

Charles E. Harrington
Chief Geographer, OA/C3x5

Dissemination of Project Material

CM-8104

National Archives/Federal Record Center

Box (contents)

Bridging Photographs

Field Folios Containing:

Plane Coordinate Plotted Control Printouts

Photoidentified Control W/Ground Points

Field Report

Grand Island-Buffalo Terminal Description Printouts

Field Notes W/C.S.I. Cards

Indexes

Correspondence:

Form 76-41

Form 76-53

Form 76-82A

Letters:

Instructions

Replys

Bureau Archives:

Registered Copy of Each Map

Descriptive Report of Each Map

Reproduction Division

8x Reduction Negative of Each Map

Office of Staff Geographer

Geographic Names Standard

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	P. EVANS HENRI LUCAS
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	HENRI LUCAS
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64.)	
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd) B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION									
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED										REPORTING UNIT (If field party, ship or office) COASTAL SURVEYING UNIT AMC NORFOLK, VA									
STATE NEW YORK										LOCALITY NIAGARA FALLS									
DATE 1982										DATE 1982									
The following objects HAVE <input checked="" type="checkbox"/> HAVE NOT <input type="checkbox"/> been inspected from seaward to determine their value as landmarks.										DATUM 1927 NA									
OPR PROJECT NO. CM8104										SURVEY NUMBER TP-01126									
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)	LATITUDE		LONGITUDE		POSITION		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED									
		D.M. Meters	D.P. Meters	D.M. Meters	D.P. Meters	OFFICE	FIELD	OFFICE	FIELD										
TOWER	NIAGARA TOWER (15 NOW MAPLE LEAF VILLAGE TOWER)	43	05	30.02	79	04	21.12	BOEC 6395	V-VIS	14816									
TOWER	LIGHTED (RED) CABLE TOWER AT ENTRANCE TO WELAND RIVER NORTH OF TOWER	43	03	44.72	79	02	38.74	9-27-80	"	14816									
TOWER	(GREEN) CABLE TOWER AT ENTRANCE TO WELAND RIVER SOUTH OF TOWER	43	03	43.35	79	02	39.50	"	"	14816									
TOWER		43	04	03.03	79	03	20.03	BOEC 6395	V-VIS	14816									
STANDPIPE		43	04	14.00	79	04	44.18	9-27-80	V-VIS	14816									
TOWER	PANASONIC CENTER TOWER	43	04	44.35	79	04	56.44	"	V-VIS	14816									
SPIKE		43	05	05.02	79	03	27.89	"	V-VIS	14816									
TOWER	(NIAGARA FALLS SKYLON TOWER 1972)	43	05	06.28	79	04	47.561	"	TRIANG REC V-VIS	14816									
TOWER	RADIO TOWER	43	08	46.37	79	02	54.11	"	"	14816									
TOWER		43	03	58.63	79	03	11.48	6395	"	14816									

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	P. EVANS
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	HEIDI LUCAS
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd) B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
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Replaces C&GS Form 567.

NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

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

ORIGINATING ACTIVITY

- ☐ HYDROGRAPHIC PARTY
☐ GEODETIC PARTY
☐ PHOTO FIELD PARTY
☐ COMPILATION ACTIVITY
☒ FINAL REVIEWER
☐ QUALITY CONTROL & REVIEW GRP.
☐ COAST PILOT BRANCH

(See reverse for responsible personnel)

DATE

19 JUL 83

LOCALITY

NIAGARA RIVER

STATE

NEW YORK

REPORTING UNIT
(If field party, ship or office)PHOTOGRAMMETRY BRANCH
ROCKVILLE MDThe following objects HAVE ☒ BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.

OPR PROJECT NO.

JOB NUMBER

SURVEY NUMBER

DATUM

CM-8104

TP-001126

1987 NA

POSITION

LATITUDE
° / ' " D.M. MetersLONGITUDE
° / ' " D.P. Meters

DESCRIPTION

(Record reason for deletion of landmark or aid to navigation.
Show triangulation station names, where applicable, in parentheses.)CHARTING
NAME

TANK

(GORGE VIEW PARK WATER TANK
NEW YORK 1941) TANK REMOVED

43 09 15.987 79 02 15.311

F-V
6-23-8214816
14806
14822
14820

TOWER

SPIRAL RIDE OBSERVATION
TOWER (RECOMMEND DELETION
BY FIELD PARTY)

43 05 27.9 79 04 30.00

V-VIS
6-23-82

"

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	CLETON MIDDLETON
POSITIONS DETERMINED AND/OR VERIFIED	CLETON MIDDLETON
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	HEBER, LUCAS
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64.)	
OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd) B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
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RESPONSIBLE PERSONNEL		ORIGINATOR	
TYPE OF ACTION	NAME		
OBJECTS INSPECTED FROM SEAWARD	CLIFTON MIDDLETON	<input checked="" type="checkbox"/> PHOTO FIELD PARTY	<input type="checkbox"/> HYDROGRAPHIC PARTY
	CLIFTON MIDDLETON	<input type="checkbox"/> GEODETIC PARTY	<input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	HEBER LUCAS	FIELD ACTIVITY REPRESENTATIVE	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	HEBER LUCAS	<input checked="" type="checkbox"/> REVIEWER	<input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'			
(Consult Photogrammetric Instructions No. 64.)			
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75		FIELD (Cont'd) B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982	
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