

T-12098

T- 12098

NOAA FORM 76-35
(6-80)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

THIS MAP WILL NOT BE FIELD EDITED

<i>Map No.</i> T-12098	<i>Edition No.</i> 1
<i>Job No.</i> PH-7118	
<i>Map Classification</i> FINAL CLASS III	
<i>Type of Survey</i> SHORELINE	
LOCALITY	
<i>State</i> MICHIGAN	
<i>General Locality</i> DETROIT RIVER	
<i>Locality</i> GROSS ILE-SOUTH	
19 71 TO 1978	
REGISTERED 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 Unit, Atlantic Marine Center, Norfolk, VA		SURVEY TP. <u>12098</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III FINAL</u> JOB PH. <u>7118</u>	
OFFICER-IN-CHARGE A. Y. Bryson, CDR		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	
Compilation August 11, 1977 Supplement I September 30, 1977 Supplement II December 06, 1978 Registration Class III May 14, 1984		Memo: Director, Lake Survey April 16, 1971 Control October 04, 1971	
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) _____ International Great Lakes Datum 1955	
3. MAP PROJECTION Lambert Conformal		4. GRID(S) STATE Michigan ZONE South	
5. SCALE 1:15,000		STATE _____ ZONE _____	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY		D. Brant	June 1972
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradomat</u> CHECKED BY		D. Brant H. Eichert	June 1972 August 1977 August 1977
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: <u>Wild B-8</u> SCALE: <u>1:15,000</u> CONTOURS BY		J. Roderick J. Byrd, Neterer, Kravitz N.A. N.A.	March 1979 March 1979
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: <u>Smooth drafted and</u> <u>graphic</u> CONTOURS BY SCALE: <u>1:15,000</u> CHECKED BY HYDRO SUPPORT DATA BY		J. Roderick L. O. Neterer, Jr. N.A. N.A. N.A. N.A.	May 1979 Feb. 1980
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		L. O. Neterer, Jr.	Feb. 1980
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		N.A. N.A.	
7. COMPILATION SECTION REVIEW CLASS III BY		C. Blood	June 1983
8. FINAL REVIEW CLASS III BY		L. O. Neterer, Jr.	July 1984
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		L. O. Neterer, Jr.	"
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		<u>P. Hawkins</u>	<u>Dec. 1984</u>
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		<u>R. S. KORNSPAN</u>	<u>FEB 1985</u>

T-12098
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) (Focal length L=152.21mm) Wild RC-8 "L", "E" (Focal length E=		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED	TIME REFERENCE	
TIDE STAGE REFERENCE 152.71 ☐ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY			ZONE Central MERIDIAN 90th	☒ STANDARD ☐ DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
71 L(C) 4722-4727	May 4, 1971	Not needed	1:30,000	N.A.
71 L(C) 4712-4719	May 4, 1971	"	1:30,000	N.A.
71 L(C) 5103-5107	May 10, 1971	"	1:30,000	N.A.
77 E(C) 1068-1072	May 28, 1977	"	1:20,000	N.A.
77 E(C) 1094	May 28, 1977	"	1:20,000	N.A.
77 E(P) 9632-9635	April 26, 1978	"	1:20,000	N.A.

REMARKS The shoreline datum is the river level at the time of the May 14, 1971 photography. On this date the river level measured at the Gibraltar Gage was 571.96 feet or 3.36 feet above Lake Erie Low Water Datum.

2. SOURCE OF ~~MEAN HIGH-WATER LINE~~ SHORELINE:

The river level on May 4, 1871 was 571.57 feet. The river level on May 10, 1971 571.92 feet. The river level on May 28, 1977 was 571.96 feet. The river level on April 26, 1978 was 572.60 feet. All river levels were measured at the Gibraltar Gage.

Delineation of the shoreline was derived by photo interpretation of the above listed color 1971 compilation/bridging photographs and updated on the American side with the 1972 color photography and on the Canadian side with the 1978 panchromatic photography.

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
T-12097	No survey	No survey	No survey

REMARKS

T-12098

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	NO INFORMATION AVAILABLE	
2. HORIZONTAL CONTROL	RECOVERED BY	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
3. VERTICAL CONTROL	RECOVERED BY	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (<i>Triangulation Stations</i>) BY	
	LOCATED (<i>Field Methods</i>) BY	
	IDENTIFIED BY	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☐ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (*Clarification of details*)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

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*)

NONE

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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	May 1979	Class III manuscript	Aug. 4, 1980	Aug. 4, 1980
Final Review, Class III	July 1984	Final Class III map No field edit performed	NOV 30 1984	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

PAGES NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
7		NOV 30 1984	Aids for navigation.
2		NOV 30 1984	Landmarks for charts.

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

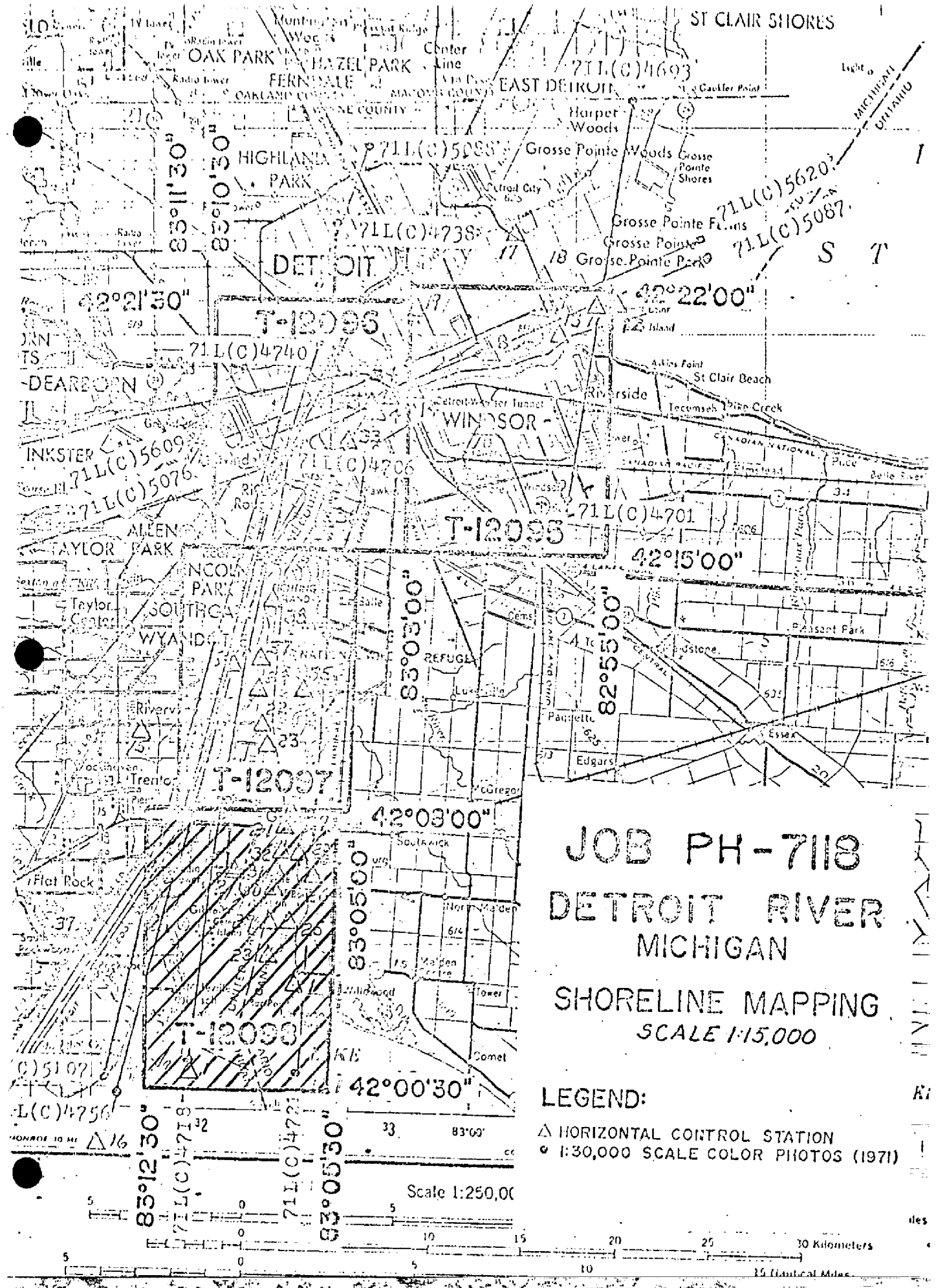
III. FEDERAL RECORDS CENTER DATA

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



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12098

This 1:15,000 scale shoreline map is one of four maps that makeup project PH-7118, Detroit River, Michigan.

This project encompasses the Detroit River from the south entrance at Lake Erie, latitude $42^{\circ}00'30''$ to the north entrance at Lake St. Clair, latitude $42^{\circ}22'00''$.

Correspondence from the Chief, Photogrammetry Branch dated May 14, 1984, called for the four maps to be registered as Class III Final maps.

Information concerning field work prior to compilation was not available.

Photographic coverage was provided in May 1971 for aerotriangulation using color film with the "L" camera (focal length 152.21 mm) at 1:30,000 scale. The same photography was used for compilation. Additional photography was taken in May 1977 and April 1978 to update compilation using the original control. The 1977 photography was used to update the American side of the river and the 1978 photography was used to update the Canadian side of the river. The 1977 photography was taken with color film using the "E" camera (focal length 152.71 mm) at 1:20,000 scale. The 1978 photography was taken with panchromatic film using the "E" camera at 1:20,000 scale.

Analytic aerotriangulation was performed at the Washington Science Center in April 1971.

Compilation was performed at the Atlantic Marine Center from office interpretation of the 1971, 1977 and 1978 photography in February 1980. The problem with the lower left corner of this map, referred to in the Project Instructions, was solved during compilation without the need of any additional photography.

Final Review was performed at the Atlantic Marine Center in July 1984. This map is to be registered as a Final Class III map.

This Descriptive Report is comprised of all information pertinent to the construction of this map.

The original base manuscript and all relevant data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

T-12098

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

PHOTOGRAMMETRIC PLOT REPORT
Detroit River

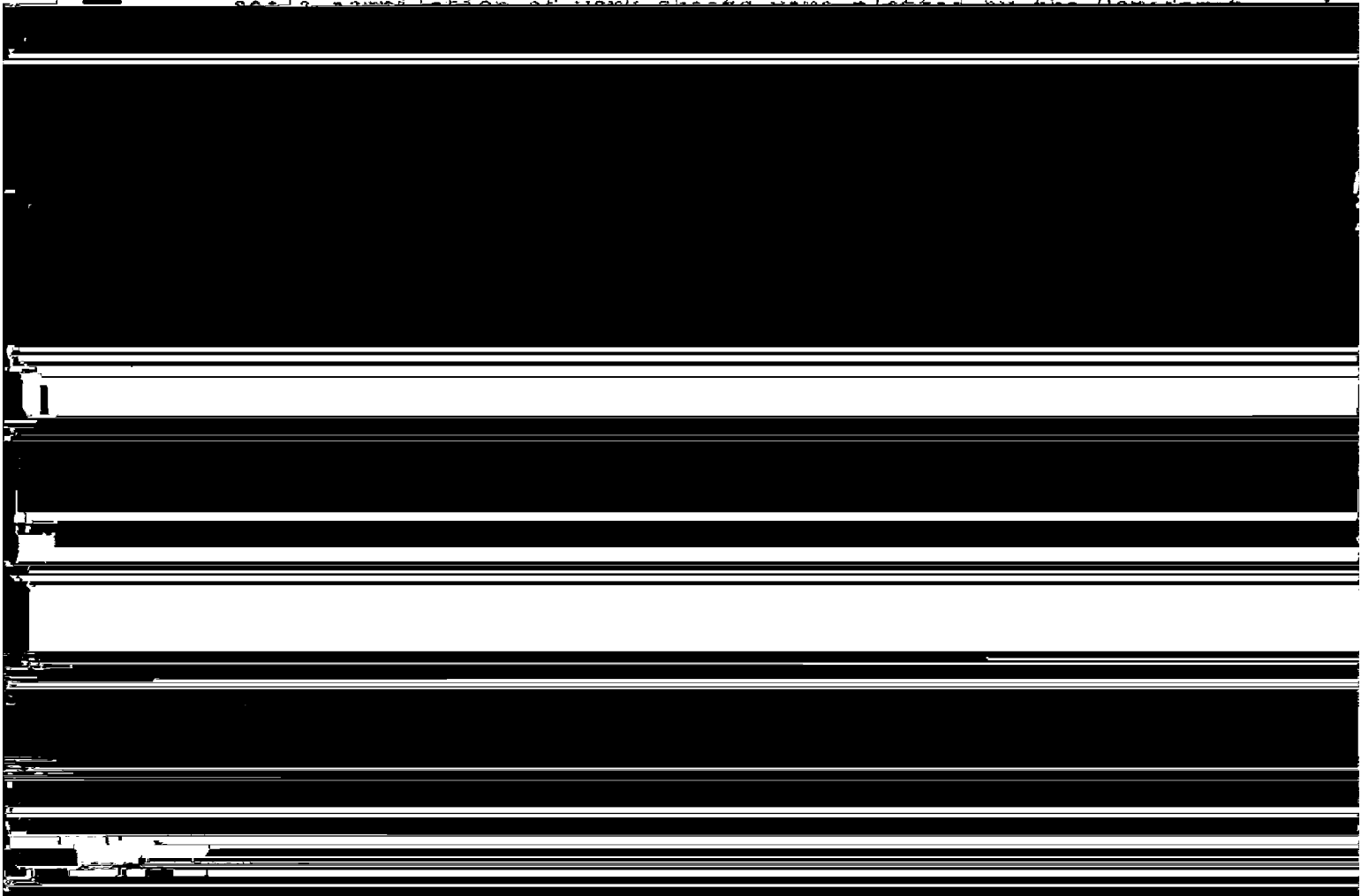
June 1972

21. Area Covered

This report covers an area of the Detroit River south from latitude $42^{\circ} 22'$ to latitude $42^{\circ} 00'$. This job was bridged for the Lake Survey Center and will be compiled direct on the Kelsh Plotter at a scale of 1:6,000.

22. Method

Four (4) strips of photographs (strips 1 thru 4) were bridged using analytical aerotriangulation methods. All Strips except strip 4 were adjusted to either premarked control stations or to control stations identified direct. A tie point (common image point) from strip 3 was used as a terminal control station in strip 4. This was necessary because the target for GRASSY was not visible on the photography. Ties were made between all strips. The accompanying sketch shows the location of the strips of photographs and the horizontal control stations used in the bridging. Data for the 1:6,000 scale compilation of work sheets were plotted by the Canadian



2

25. Photography

The following RC-8 photography was used in bridging:

1:30,000 scale

Strip 1 - 71-L(C)-5611 thru 5618
Strip 2 - 71-L(C)-4722 thru 4735
Strip 3 - 71-L(C)-4707 thru 4715
Strip 4 - 71-L(C)-5097 thru 5109

The photography was dark in the corners. This was not only troublesome during the bridging operation but may cause difficulty during compilation.

Respectfully submitted:

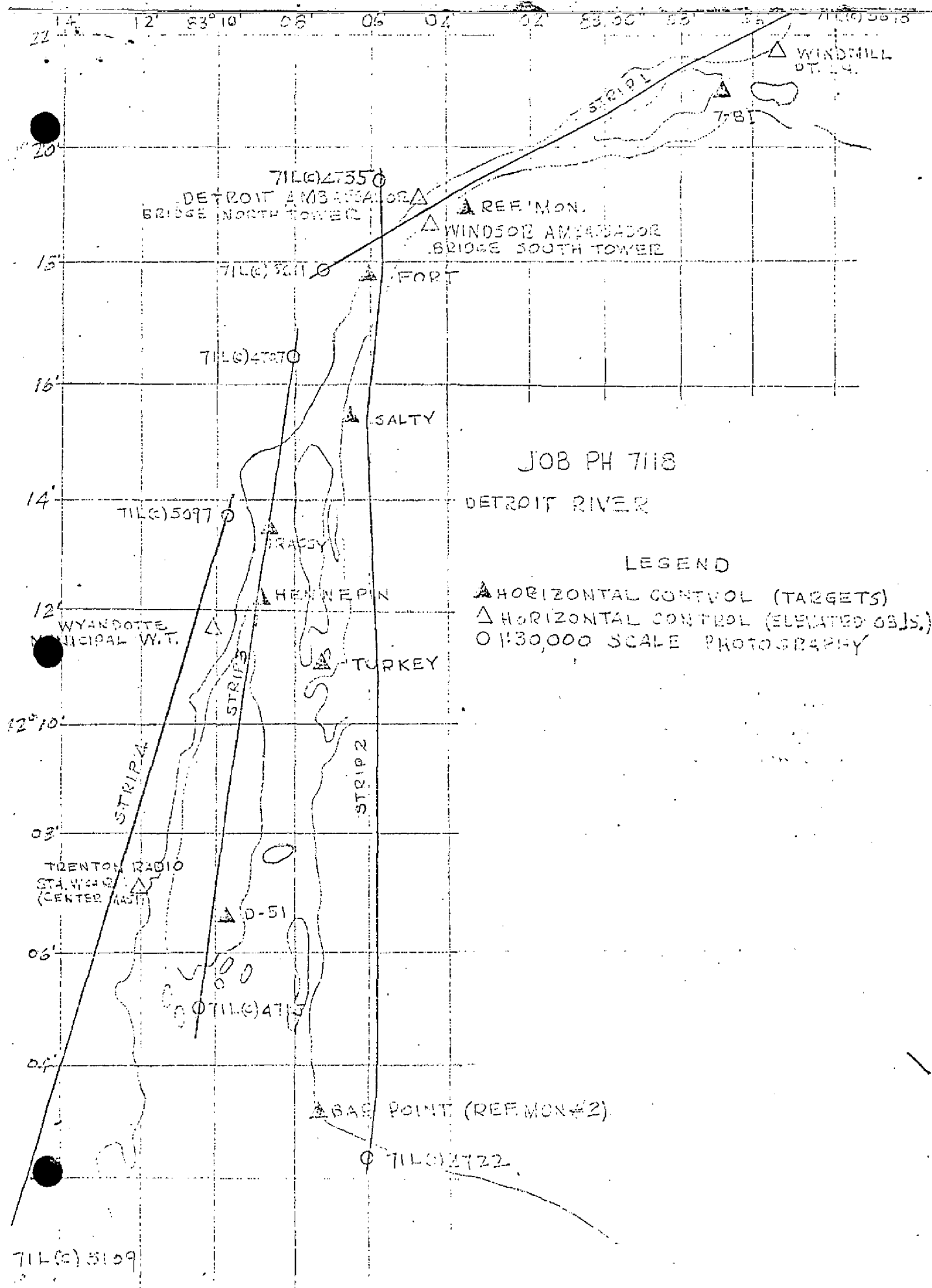


Donald M. Brant

Approved and forwarded:



Henry P. Eichert, Chief
Aerotriangulation Section



NOAA FORM 76-41
(6-75)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.		JOB NO.		GEODEIC DATUM		ORIGINATING ACTIVITY	
T-12098		PH-7118		N.A. 1927		Coastal Mapping Unit, AMC	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE		GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE		REMARKS
TRENTON RADIO STATION, WCAR, CENTER MAST, 1957	420832 1084	02100	X= 2,308,122.26 Y= 244,636.33		ϕ 42°06'38.461" λ 83°11'52.247"		
D-51, 1957	420832 1133	14100	X= 2,319,746.62 Y= 223,736.19		ϕ 42°06'38.461" λ 83°11'52.247"		
REFERENCE MONUMENT NO. 2, (I.B.C.)	L.S.	23100	X= 2,330,604.399 Y= 240,621.574		ϕ 42°06'38.461" λ 83°11'52.247"		
BAR POINT (USLS), 1910	420832 1003		X= 2,330,537.40 Y= 204,642.37		ϕ 42°06'38.461" λ 83°11'52.247"		
POINT MOUILLEE(USE), 1957	420832 1017		X= 2,313,121.68 Y= 189,660.14		ϕ 42°06'38.461" λ 83°11'52.247"		
DETROIT RIVER LIGHT NO. 24, 1942	IBC 12	26124	X= 42°07'17.228" Y= 83°07'28.320"		ϕ 42°07'17.228" λ 83°07'28.320"		
DETROIT RIVER LIGHT NO. 21, 1942	IBC 12	26121	X= 42°06'49.959" Y= 83°07'38.518"		ϕ 42°06'49.959" λ 83°07'38.518"		
DETROIT RIVER LIGHT NO. 19, 1942	IBC 12		X= 42°06'21.214" Y= 83°07'42.934"		ϕ 42°06'21.214" λ 83°07'42.934"		
AMHERSTBURG CHURCH SPIRE, 1942	IBC 11	25112	X= 42°06'10.670" Y= 83°06'14.593"		ϕ 42°06'10.670" λ 83°06'14.593"		
BOIS BLANC LIGHTHOUSE, 1942	IBC 11	25114	X= 42°05'12.920" Y= 83°07'10.509"		ϕ 42°05'12.920" λ 83°07'10.509"		
COMPUTED BY F. Margiotta		DATE 8/23/77	COMPUTATION CHECKED BY A. C. Rauck, Jr.			DATE 9/15/77	
LISTED BY A. C. Rauck, Jr.		DATE 8/23/77	LISTING CHECKED BY F. Margiotta			DATE 8/23/77	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY			DATE	

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

COMPILATION REPORT
T-12098

31 - DELINEATION

Delineation was accomplished using the B-8 stereoplotting instrument and graphic compilation methods. The map is based on office interpretation of the May 1971, 1:30,000 scale bridging/compilation color photographs. Supplemental photographs, flown in May 1977 and April 1978, were used to graphically update the American and Canadian sides, respectively, based on the original 1971 control. All photographs used to compile the map are listed on form 76-36B. The photography was adequate. The Pointe Mouillee area was adequately compiled using another strip of May 1971 photography. The additional bridging mentioned in the Project Instructions was not necessary. The times of photography were not needed because the river levels are recorded as a daily mean, since there is no actual tide.

32 - CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report dated June 1972.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

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

35 - SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore details were compiled from office interpretation of the compilation photographs with the supplemental photographs used to update the map as described in Item #31. The shoreline compiled was the visible line of contact between land features and the water surface at the time of photography.

36 - OFFSHORE DETAILS

No unusual problems.

37 - LANDMARKS AND AIDS

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

39 - JUNCTIONS

See the attached form 76-36B, item 5 of the Descriptive Report concerning junctions.

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Report dated June 1972.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey Quadrangles: Rockwood, Michigan-Ontario, scale 1:24,000, 1967, photorevised 1973; and Wyandotte, Michigan-Ontario, scale 1:24,000, 1967, photorevised 1973.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Survey chart: 14853, scale 1:15,000, 7th edition, dated April 17, 1976.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

Joanne Roderrick
Joanne Roderrick
Cartographer
May 11, 1979

Approved,

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

REVIEW REPORT
SHORELINE
T-12098

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.G.S. Quadrangles: Rockwood, Michigan-Ontario, dated 1967, photorevised 1973, scale 1:24,000; and Wyandotte, Michigan-Ontario, dated 1967, photorevised 1973, scale 1:24,000.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There is no contemporary hydrographic survey within the limits of this map.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS Charts: 14848, 45th edition, scale 1:30,000, dated August 21, 1982; 14853, 8th edition, scale 1:15,000, dated April 14, 1979; 14854, 9th edition, scale 1:15,000, dated October 15, 1983; and 14846, 7th edition, scale 1:15,000, dated April 10, 1982.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by,

Lowell O. Neterer, Jr.
Lowell O. Neterer, Jr.
Final Reviewer

Approved for forwarding,

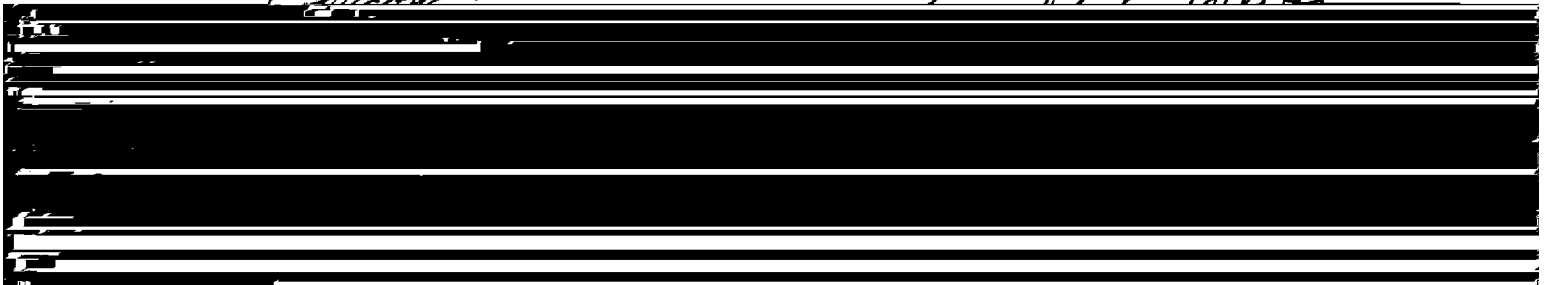
Billy H. Barnes

Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,

Thomas F. Farnham

Clark B. Benda



May 16, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7118 (Detroit River, Michigan)

TP-12098

Amherstburg ✓
Amherstburg Channel ✓
Bar Point ✓
Bois Blanc Island ✓
Brownstown Creek ✓
Calf Island ✓
Celeron Island ✓
Cherry Island (locality) ✓
Conrail (RR) ✓
Detroit River ✓
East Lead ✓
Edmond Island ✓
Elba Island ✓
Fox Island ✓
Frank and Poet Drain ✓
Frenchman Creek ✓
Gibraltar ✓
Gibraltar Bay ✓
Grosse Ile ✓
Grosse Ile Municipal Airport ✓
Hall Island ✓
Hickory Island ✓

Hole-in-the-Wall ✓
Horse Island ✓
Huron River ✓
Lake Erie ✓
Livingston Channel ✓
Maple Beach (locality) ✓
Meso Island ✓
Milleville Beach (locality) ✓
Millman Island ✓
Mouillee Marsh ✓
Pointe Mouillee ✓
Powder House Island ✓
Round Island ✓
Silver Creek ✓
Stony Island ✓
Sturgeon Bar ✓
Sugar Island ✓
Sunset Beach (locality) ✓
Swan Island ✓
Thorofare Canal ✓
Vermer Channel ✓
West Lead ✓

Approved by:

Charles E. Harrington

Charles E. Harrington
Chief Geographer
Nautical Charting Division

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NON-FLOATING AIDS OR LANDMARKS FOR CHARTS										ORIGINATING ACTIVITY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☐ COMPILATION ACTIVITY ☒ FINAL REVIEWER ☐ QUALITY CONTROL & REVIEW GRP. ☐ COAST PILOT BRANCH <i>(See reverse for responsible personnel)</i>			
CHARTING NAME		REPORTING UNIT <i>(Field Party, Ship or Office)</i> Coastal Mapping Unit, AMC, Norfolk, VA		STATE Michigan		LOCALITY Detroit River		DATE Oct. 1977		METHOD AND DATE OF LOCATION <i>(See instructions on reverse side)</i>										CHARTS AFFECTED			
OPR PROJECT NO.		JOB NUMBER		SURVEY NUMBER		DATUM		POSITION		LATITUDE		LONGITUDE		OFFICE		FIELD							
NA		PH-7118		T-12098		N.A. 1927		N.A. 1927		D.M. Meters		D.M. Meters		77 E(C) 1072 May 28, 1977		14848							
DESCRIPTION <i>(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)</i>		42 06		42 06		42 06		42 06		42 06		42 06		42 06		42 06							
R. MAST	North Westerly	40.77	83 11	58.72	1349	58.72	1349	77 E(C) 1072 May 28, 1977	14848														
R. MAST	North Center	40.68	83 11	53.23	1200	53.23	1200	"	"														
R. MAST	North Easterly	40.51	83 11	45.66	1049	45.66	1049	"	"														
R. MAST	West Center	38.63	83 11	58.89	1353	58.89	1353	"	"														
R. MAST	Center (Trenton Radio Station WCAR, Center Mast, 1957)	38.461	83 11	52.247		52.247		"	"														
R. MAST	East Center	38.44	83 11	45.75	1051	45.75	1051	"	"														
R. MAST	South Westerly	36.49	83 11	58.89	1353	58.89	1353	"	"														
R. MAST	South Center	36.40	83 11	52.23	1200	52.23	1200	"	"														
R. MAST	South Easterly	36.23	83 11	45.74	1051	45.74	1051	"	"														

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	FIELD ACTIVITY REPRESENTATIVE OFFICE ACTIVITY REPRESENTATIVE ☐ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
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) 8. 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 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 *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	III. 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.

NOAA FORM 76-40 (6-74) Replaces C&GS Form 567.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY											
☒ TO BE CHARTED ☐ TO BE REVISED ☐ TO BE DELETED				REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Unit, AMC, Norfolk, VA				LOCALITY Detroit River				DATE Oct. 1977							
The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.				STATE Michigan				SURVEY NUMBER PH-7118				DATUM N.A. 1927							
OPR PROJECT NO. N.A.				JOB NUMBER T-12098				CHARTING NAME (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)				METHOD AND DATE OF LOCATION (See instructions on reverse side)				CHARTS AFFECTED			
								LATITUDE ° / ' "				LONGITUDE ° / ' "							
				D.M. Meters				D.P. Meters											
*TR	(Bois Blanc Lighthouse, 1942)			42 05	12.920	83 07	10.509	78 E(C) 9634 April 26, 1978	14848 14853										
*TANK	Calvert of Canada Ltd.			42 06	50.88 1570	83 06	30.82 708	78 E(P) 9633 April 26, 1978	14848										
CHY	North of Five			42 07	23.98 740	83 10	53.45 1228	77 E(C) 1072 May 28, 1977	14848 14853										
CHY	South of Five			42 07	22.07 681	83 10	53.20 1222	"	"										
TANK				42 06	58.47 1804	83 11	18.33 421	"	"										
ELEV ATOR				42 06	19.28 595	83 11	55.17 1267	77 E(C) 1071 May 28, 1977	14848										
STACK				42 07	18.50 571	83 10	50.93 1170	77 E(C) 1072 May 28, 1977	14848 14853										
STACK				42 07	20.90 645	83 10	52.41 1204	77 E(C) 1072 May 28, 1977	14848 14853										
* STACK				42 07	15.75 486	83 06	26.03 598	78 E(P) 9633 April 26, 1978	14848										
*These landmarks are on the Canadian side of the river.																			

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	
ACTIVITIES	

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 entry of method date of field photograph used to identify and locate the object. EXAMPLE: P-8-V 8-12-75 74L(C)
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 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 When a landmark or triangulation station is used, enter the date of the photograph used to identify and locate the object. EXAMPLE: Triang. 8-12-75 III. POSITION VERIFIED Enter 'V-Vis.' and date of field work. EXAMPLE: V-Vis. 8-12-75 **PHOTOGAMMETRIC FIELD Positions are determined by field observations entirely upon ground survey methods.

NOAA FORM 76-40 (8-74)				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY			
Replaces C&GS Form 567.				NONFLOATING AIDS TO NAVIGATION FOR CHARTS				☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☒ COMPILATION ACTIVITY ☐ FINAL REVIEWER ☐ QUALITY CONTROL & REVIEW GRP. ☐ COAST PILOT BRANCH (See reverse for responsible personnel)			
REPORTING UNIT (Field Party, Ship or Office)		STATE		LOCALITY		DATE					
Coastal Mapping Unit, AMC, Norfolk, VA <td colspan="2">Michigan <td colspan="2">Detroit River <td colspan="2">Oct. 1977 <td colspan="4"></td> </td></td></td>		Michigan <td colspan="2">Detroit River <td colspan="2">Oct. 1977 <td colspan="4"></td> </td></td>		Detroit River <td colspan="2">Oct. 1977 <td colspan="4"></td> </td>		Oct. 1977 <td colspan="4"></td>					
OPR PROJECT NO.		JOB NUMBER		SURVEY NUMBER		DATUM		METHOD AND DATE OF LOCATION (See instructions on reverse side)			
N.A.		PH-7118		T-12098		N.A. 1927					
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)		POSITION		LONGITUDE		OFFICE		CHARTS AFFECTED	
				LATITUDE		D.P. Meters					
				° /		° /					
				D.M. Meters		D.P. Meters					
**LIGHT	Fort Malden Range Front Light	42 06	50.82	83 06	43.22	77 E(P) 9633 April 26, 1978	14848 14853				
**LIGHT	Fort Malden Range Rear Light	42 06	47.25	83 06	41.65	"	"				
**LIGHT	Amherstburg Reach Range Front Light 65D	42 06	47.09	83 07	5.00	"	"				
**LIGHT	Amherstburg Reach Range Rear Light	42 06	58.27	83 07	6.14	"	"				
**LIGHT	Limekiln Crossing Reach Channel Light 73D	42 07	16.27	83 07	2.00	"	"				
**LIGHT	Ballards Reef Channel Light 75D	42 07	25.96	83 07	3.79	"	"				
**LIGHT	Limekiln Crossing Reach Channel Range Front Light	42 07	40.45	83 06	56.99	"	"				
**LIGHT	Limekiln Crossing Reach Channel Range Rear Light	42 07	52.60	83 06	56.17	"	"				
**LIGHT	Livingstone Channel Light 13	42 04	17.53	83 07	59.05	"	"				
			541		1357						

TYPE OF ACTION	
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	
ACTIVITIES	INSTRUMENTS
OFFICE 1. OFFICE IDENTIFIED AND LOCATED Enter the number and date (including day, and year) of the photograph identify and locate the subject EXAMPLE: 75E(C)6042 8-12-75	
FIELD 1. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbol F - Field P - Photogrammetry L - Located Vis - Visual V - Verified 1 - Triangulation 5 - Field 2 - Traverse 6 - Theodolite 3 - Intersection 7 - Planimeter 4 - Resection 8 - Sextant A. Field positions* require entire location and date of field EXAMPLE: F-2-6-L 8-12-75	
*FIELD POSITIONS are determined by entire location and date of field positions based entirely upon ground	

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION									
NONFLOATING AIDS OR FOR CHARTS										ORIGINATING ACTIVITY									
TO BE CHARTED ☐ TO BE REVISED ☐ TO BE DELETED		REPORTING UNIT (If not Party, Ship or Office) Coastal Mapping Unit, AMC, Norfolk, VA		STATE Michigan		LOCALITY Detroit River		DATE Oct. 1977		☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☒ COMPILATION ACTIVITY ☐ FINAL REVIEWER ☐ QUALITY CONTROL & REVIEW GRP. ☐ COAST PILOT BRANCH (See reverse for responsible personnel)									
OPR PROJECT NO. N.A. 1927		JOB NUMBER PH-7118		SURVEY NUMBER T-12098		DATUM N.A. 1927		METHOD AND DATE OF LOCATION (See instructions on reverse side)											
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)	LATITUDE		LONGITUDE		OFFICE	FIELD	CHARTS AFFECTED											
		° / ' "	° / ' "																
**LIGHT	Detroit River Pier Light 24D	42 02	24.21 747	83 08	4.17 96	NOT IDENTIFIABLE		14848											
**LIGHT	Bar Point Pier Light 29D	42 04	13.51 417	83 07	25.84 594	78 E(P) 9635 April 26, 1978		14848 14853											
**LIGHT	Bar Point Range Front Light 49D	42 04	37.47 1156	83 07	18.14 417	78 E(P) 9634 April 26, 1978		14848 14853											
**LIGHT	Bar Point Range Rear Light	42 04	43.11 1330	83 07	15.14 348	"		"											
**LIGHT	Hackett Reach Light 51D	42 04	12.70 392	83 07	3.95 91	"		"											
**LIGHT	Hackett Reach Light 53D	42 05	48.23 1488	83 06	48.35 1111	"		"											
**LIGHT	Hackett Reach Range Front Light	42 05	57.30 1768	83 06	45.08 1036	"		"											
**LIGHT	Hackett Reach Range Rear Light	42 05	1.36 42	83 07	3.13 72	"		"											
**LIGHT	Amherstburg Reach Light 61D	42 06				"		"											

RESPONSIBLE	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	
ACTIVITIES	

INSTRUCTIONS FOR ENTRIES UNDER
(Consult Photogrammetrist)

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
1. NEW POSITION DETERMINED OR VERIFIED
 Enter the applicable data by symbols as follows:
 F - Field P - Photogrammetric
 L - Located Vis - Visually
 V - Verified
 1 - Triangulation 5 - Field Identified
 2 - Traverse 6 - Theodolite
 3 - Intersection 7 - Planetable
 4 - Resection 8 - Sextant

A. Field positions* require entry of method of location and date of field work.
 EXAMPLE: F-2-6-1
 8-12-75

*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				NONFLOATING AIDS OR LANDMARKS FOR CHARTS				ORIGINATING ACTIVITY					
☒ TO BE CHARTED ☐ TO BE REVISED ☐ TO BE DELETED		REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Unit, AMC, Norfolk, VA		STATE	LOCALITY	DATE					☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☒ COMPILATION ACTIVITY ☐ FINAL REVIEWER ☐ QUALITY CONTROL & REVIEW GRP. ☐ COAST PILOT BRANCH (See reverse for responsible personnel)				
OPR PROJECT NO.		JOB NUMBER		SURVEY NUMBER		DATUM		METHOD AND DATE OF LOCATION (See instructions on reverse side)				CHARTS AFFECTED			
NA		PH-7118		T-12098		N.A. 1927									
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station name, where applicable, in parentheses.)		LATITUDE		LONGITUDE		OFFICE				FIELD			
				° / ' " D.M. Meters		° / ' " D.P. Meters									
**LIGHT	Livingstone Channel Light 14	42 04	16.98 524	83 07	52.18 1199	78 E(P) 9634 April 26, 1978	14848 14853								
**LIGHT	Livingstone Channel Light 15	42 05	08.72 269	83 07	52.22 1200	"	"								
**LIGHT	Livingstone Channel Light 16	42 05	08.23 254	83 07	45.34 1042	"	"								
**LIGHT	Livingstone Channel Light 17	42 05	58.25 1797	83 07	45.77 1052	78 E(P) 9633 April 26, 1978	"								
**LIGHT	Livingstone Channel Light 18	42 05	57.78 1783	83 07	38.70 889	"	"								
**LIGHT	Livingstone Channel Light 19 (Detroit River Light No. 19, 1942)	42 06	21.214	83 07	42.934	"	"								
**LIGHT	Livingstone Channel Light 20	42 06	25.33 781	83 07	35.07 806	"	"								
LIGHT	Livingstone Channel Light 21 (Detroit River Light No. 21, 1942)	42 06	49.959	83 07	38.518	"	"								
**LIGHT	Livingstone Channel Light 22	42 06	49.50 1527	83 07	32.03 736	"	"								

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	FIELD ACTIVITY REPRESENTATIVE OFFICE ACTIVITY REPRESENTATIVE ☐ REVIEWER ☐ 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
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 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	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				ORIGINATING ACTIVITY	
NONFLOATING AIDS OR LANDMARKS FOR CHARTS		LOCALITY		DATE		☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☒ COMPILATION ACTIVITY ☐ FINAL REVIEWER ☐ QUALITY CONTROL & REVIEW GRP. ☐ COAST PILOT BRANCH (See reverse for responsible personnel)	
REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Unit, AMC, Norfolk, VA		STATE Michigan		Detroit River		Oct. 1977	
The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.		SURVEY NUMBER T-12098		DATUM N.A. 1927			
OPR PROJECT NO. NA		JOB NUMBER TH-7118		POSITION		METHOD AND DATE OF LOCATION (See instructions on reverse side)	
DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)		LATITUDE ° / ' / D.M. Meters		LONGITUDE ° / ' / D.P. Meters		CHARTS AFFECTED	
LIGHT	Livingstone Channel Light 23	42 07	17.70 546	83 07	34.74 798	78 E(P) 9633 April 26, 1978	14848 14853
LIGHT	Livingstone Channel Light 24 (Detroit River Light No. 24, 1942)	42 07	17.228	83 07	28.320	"	"
LIGHT	Livingstone Channel Light 25	42 07	45.37 1400	83 07	31.22 717	"	"
LIGHT	Livingstone Channel Light 26	42 07	44.95 1387	83 07	24.68 567	"	"
LIGHT	Elba-Mar Boat Club Front Light					NOT IDENTIFIABLE	"
LIGHT	Elba-Mar Boat Club Rear Light					NOT IDENTIFIABLE	"
LIGHT	Gibraltar North Channel Range Front Light					"	"
LIGHT	Gibraltar North Channel Range Rear Light					"	"
LIGHT	Ford Yacht Club East Basin Range Front Light					"	"
LIGHT	Ford Yacht Club East Basin Range Rear Range					"	"

TYPE OF ACTION
OBJECTS INSPECTED FROM SEAWARD
POSITIONS DETERMINED AND/OR VER
FORMS ORIGINATED BY QUALITY CON AND REVIEW GROUP AND FINAL REVI ACTIVITIES
OFFICE 1. OFFICE IDENTIFIED Enter the number day, and year) of identify and loca EXAMPLE: 75E(C)6 8-12-75
FIELD 1. NEW POSITION DETER Enter the applica F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection
A. Field positions location and de EXAMPLE: F-2- 8-12-
*FIELD POSITIONS are c vations based entire

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY			
NONFLOATING AIDS ON CHARTS FOR CHARTS.				LOCALITY				DATE			
REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Unit, AMC, Norfolk, VA				STATE Michigan				Detroit River			
TO BE CHARTED ☒ TO BE REVISED ☐ TO BE DELETED				HAVE ☐ HAVE NOT ☒				The following objects have been inspected from seaward to determine their value as landmarks.			
OPR PROJECT NO.		JOB NUMBER		SURVEY NUMBER		DATUM		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED	
NA		PH-7118		T-12098		N.A. 1927					
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)		LATITUDE ° / ' " D.M. Meters		LONGITUDE ° / ' " D.P. Meters		OFFICE		FIELD	
LIGHT	Ford Yacht Club West Basin Range Rear Light								NOT IDENTIFIABLE		14848 14853
LIGHT	Ford Yacht Club West Basin Range North Light								"		"
LIGHT	Gibraltar South Harbor Channel Light 1								"		"
LIGHT	Gibraltar South Harbor Channel Light 2								"		"
LIGHT	Gibraltar South Harbor Channel Range Rear Light								"		"
LIGHT	Gibraltar South Harbor Channel Range Front Light								"		"
LIGHT	Gibraltar South Harbor Channel Light 3								"		"
LIGHT	Gibraltar South Harbor Channel Light 4								"		"
LIGHT	Gibraltar South Harbor Channel Light 5								"		"
LIGHT	Gibraltar Middle Channel North Light								"		"

TYPE OF A	
OBJECTS INSPECTED FR	
POSITIONS DETERMINED	
FORMS ORIGINATED BY C AND REVIEW GROUP AND ACTIVITIES	
OFFICE 1. OFFICE ID Enter the day, and identify EXAMPLE:	
FIELD 1. NEW POSIT Enter the F - Field L - Locat V - Verif 1 - Trian 2 - Trave 3 - Inter 4 - Resec A. Field locati EXAMPL	
*FIELD POSITTI vations base	

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION									
NONFLOATING AIDS ON LAND FOR CHARTS										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)									
TO BE CHARTED ☐ TO BE REVISED ☒ TO BE DELETED		REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Unit; AMC, Norfolk, VA		STATE Michigan		LOCALITY Detroit River		DATE Oct. 1977											
OPR PROJECT NO.		JOB NUMBER PH-7118		SURVEY NUMBER T-12098		DATUM N.A. 1927		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED									
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)		LATITUDE ° / ' " D.M. Meters		LONGITUDE ° / ' " D.P. Meters		OFFICE		FIELD									
LIGHT		Gibraltar South Harbor Channel Light 6						NOT IDENTIFIABLE		14848 14853									
LIGHT		Gibraltar South Harbor Channel Light 7								"									
LIGHT		Gibraltar South Harbor Channel Light 8								"									
LIGHT		Gibraltar Middle Channel South Light								"									
		**These lights are on the Canadian side of the river.																	
LIGHT		Gibraltar North Channel Light 1								"									
*LIGHT		Gibraltar North Channel Light 2								"									
LIGHT		Grosse Ile Yacht Club Harbor South Entrance Light								"									
LIGHT		Grosse Ile Yacht Club Harbor North Entrance Light								"									

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	
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	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.	

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	OFFICE ACTIVITY REPRESENTATIVE
ACTIVITIES	☐ REVIEWER ☐ 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
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.	

