

T-12095

T-12095

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-12095	<i>Edition No.</i> 1
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<i>Job No.</i> PH-7118

<i>Map Classification</i> CLASS III FINAL
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<i>Type of Survey</i> SHORELINE

LOCALITY

<i>State</i> MICHIGAN

<i>General Locality</i> DETROIT RIVER
--

<i>Locality</i> BELLE ISLE

--

19 ₇₁ TO 19 ₇₇

REGISTERED IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

- ORIGINAL
- RESURVEY
- REVISED

SURVEY TP12095

MAP EDITION NO. (1)
MAP CLASS III Final
JOB PH-7118

PHOTOGRAMMETRIC OFFICE

Coastal Mapping Unit, Atlantic Marine Center
Norfolk, VA

OFFICER-IN-CHARGE

A. Y. Bryson

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

- ORIGINAL
- RESURVEY
- REVISED

JOB PH-
MAP CLASS
SURVEY DATES:
19 TO 19

I. INSTRUCTIONS DATED

I. OFFICE

2. FIELD

Compilation August 11, 1977
Supplement I September 30, 1977
Supplement II December 6, 1978
Registration Class III May 14, 1984

Memo: Director Lake Survey April 16, 1971
Control October 4, 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 ZONE
Michigan South

5. SCALE

1:15,000

STATE ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY	D. Brant	June 1972
	H. Eichert	June 1972
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: CHECKED BY	D. Brant	Aug 1977
	H. Eichert	Aug 1977
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	F. Margiotta	Nov 1977
INSTRUMENT: Wild B-8	L. Neterer, J. Byrd	Nov. 1977
SCALE: 1:15,000	N.A.	--
	N.A.	--
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY	J. Roderick	May 1979
METHOD: Smooth drafted and graphic	L. Neterer	Sept 1979
SCALE: 1:15,000	N.A.	--
	N.A.	--
	N.A.	--
	N.A.	--
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	L. Neterer	Sept 1979
	N.A.	--
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	N.A.	--
	N.A.	--
7. COMPILATION SECTION REVIEW Class III BY	C. Blood	May 1983
8. FINAL REVIEW Class III BY	L. O. Neterer, Jr	June 1984
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	L. O. Neterer, Jr	"
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	P. Hawkins	Dec. 1984
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	R. S. KORNSPAN	FEB 1985

T-12095
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild R.C.-8 focal length L=152.21mm "L", "E" focal length E=152.71mm		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED	TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY			ZONE Central MERIDIAN 90th	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
* 71 L(c) 5613-5618	May 14, 1971	Not needed	1:30,000	N.A.
77 E(c) 1132-1143	May 28, 1977		1:20,000	

* 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 Windmill Point Gage was 574.45 feet or 2.75 feet above the Lake St. Clair Low Water Datum.

2. SOURCE OF MEAN HIGH-WATER LINE:
The river level on May 28, 1977 measured at the Windmill Point Gage, was 574.18 feet. The shoreline on both sides of the river was compiled by photo interpretation of the above listed 1971 color compilation/bridging photography. The American side of the river was updated using 1977 color photography.

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

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 survey	No survey	No survey	T-12096

REMARKS

T-12095
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	June 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

NUMBER (pages)	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
2		NOV 30 1984	Aids for navigation.
3		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 <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT
T-12095

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, Photogrammetric Division dated May 14, 1984 called for the four maps to be registered as Class III 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 152.21mm) at 1:30,000 scale. The same photography was used for compilation. Additional photography was taken in May 1977 to update compilation on the American side of the river using the original control. This photography was taken with color film using the "E" camera (focal length 152.71 mm) at 1:20,000 scale.

Analytic aerotri^Angulation was performed at the Washington Science Center in April 1971.

Compilation was performed at the Atlantic Marine Center from office interpretation of the 1971 and 1977 color photography in September 1979.

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

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

FIELD INSPECTION
T-12095

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 Coradomat on the Michigan (south zone) Coordinate System. *See Plans*

23. Adequacy of Control

All horizontal control stations were premarked except for the following:

TRENTON RADIO STATION WGAR (center mast)
WYANDOTTE MUNICIPAL WATER TANK
WINDSOR AMBASSADOR BRIDGE North Tower
WINDSOR AMBASSADOR BRIDGE South Tower
WINDMILL PT' L.H.

Station GRASSY (USLS) was marked with a four (4) foot square.

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:

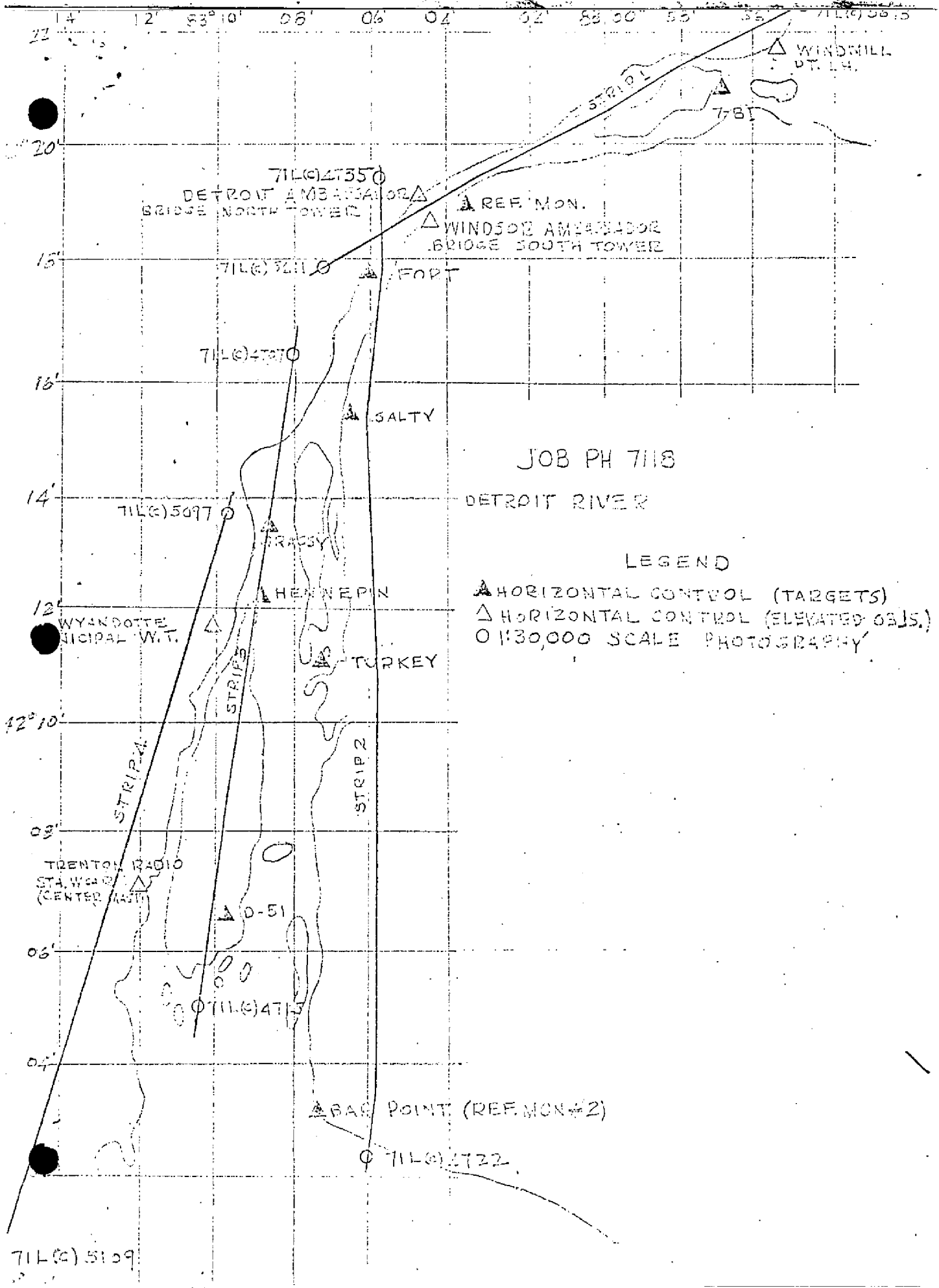


Donald M. Brant
Cartographer

Approved and Forwarded:



Henry P. Eichert, Chief
Aerotriangulation Section



71LG)47350
 DETROIT AMBASSADOR BRIDGE NORTH TOWER

REF. MON.
 WINDROSE AMBASSADOR BRIDGE SOUTH TOWER

71LG)52110 FORT

71LG)47370

SALTY

JOB PH 7118

DETROIT RIVER

LEGEND

- ▲ HORIZONTAL CONTROL (TARGETS)
- △ HORIZONTAL CONTROL (ELEVATED OBJ.S.)
- 1:30,000 SCALE PHOTOGRAPHY

71LG)50977

TRACY

HENNEPIN

TURKEY

WYANDOTTE MUNICIPAL W.T.

STRIP 1

STRIP 3

STRIP 2

TRENTON RADIO STA. W.C. (CENTER)

D-51

71LG)4715

BAR POINT (REF. MON #2)

71LG)4722

71LG)5109

NOAA FORM 76-41
(6-75)

DESCRIPTIVE REPORT CONTROL RECORD

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

MAP NO.	JOB NO.	GEODETTIC DATUM		ORIGINATING ACTIVITY		
		PH-7118	N.A. 1927	Coastal Mapping Unit, AMC		
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Michigan ZONE South	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE		REMARKS
T-12095						
7 BI (USLS), 1931	Bridge		X= 2,372,852.481	φ		
DETROIT,	Form 164	16100	Y= 311,804.172	λ		
WINDMILL POINT LIGHTHOUSE	IBC		X= 2,379,309,190	φ	42° 21', 27.225"	
1932	pg. 5	17100	Y= 315,688.776	λ	82° 55' 47.859"	
DETROIT ST. JOSEPHAT CATHOLIC CHURCH SPIRE,			X= 2,347,347.80	φ		
1932		14114	Y= 315,412.80	λ		
DETROIT RADIO STATION	420832		X= 2,360,681.28	φ	42° 20' 17.597"	
K.Q.A. 414, NORTHEAST MAST,	1048	14118	Y= 308,336.58	λ	82° 59' 57.479"	
1957			X= 2,360,476.07	φ	42° 20' 14.817"	
DETROIT RADIO STATION	420832	14120	Y= 308,051.88	λ	83° 00' 00.271"	
K.Q.A. 414, SOUTHWEST MAST,	1049		X= 2,371,166.11	φ	42° 21' 31.771"	
1957		16114	Y= 316,014.74	λ	82° 57' 36.229"	
DETROIT EDISON COMPANY PLANT, NORTH STACK,	420832		X= 2,360,627.13	φ	42° 18' 28.91"	
1932	1090		Y= 297,332.02	λ	83° 00' 00.52"	
WINDSOR, GENERAL MOTORS, COMPANY STACK,	420832		X= 2,360,480.59	φ	42° 18' 28.93"	
1932	1091		Y= 297,331.72	λ	83° 00' 02.47"	
WINDSOR, GENERAL MOTORS COMPANY WATER TANK,	420832		X= 2,372,769.84	φ	42° 20' 49.132"	
1932	1010	16110	Y= 311,724.13	λ	82° 57' 15.807"	
BELLE ISLE, WILLIAM LIVINGSTONE LIGHTHOUSE,	420832		X= 2,347,373.67	φ	42° 19' 02.347	
1932	1089	14112	Y= 300,511.19	λ	83° 02' 56.233"	
WINDSOR-CANADIAN PACIFIC RAILROAD, RELAY TOWER,			COMPUTATION CHECKED BY A. C. Rauck, Jr.			DATE 9/15/77
1957			LISTING CHECKED BY F. Maigiotta			DATE 8/23/77
COMPUTED BY			HAND PLOTTING CHECKED BY			DATE
F. Maigiotta						
A. C. Rauck, Jr.						
HAND PLOTTING BY						

COMPILATION REPORT
T-12095

31 - DELINEATION

Delineation was accomplished using the B-8 stereoplotting instrument and graphic compilation methods. The maps are based on office interpretation of the May 1971, 1:30,000 scale bridging/compilation color photographs. Supplemental photographs, flown in May 1977, were used to graphically update the American side of the map, based on the original 1971 control.

All photographs used to compile the map are listed on form 76-36B. The photography was adequate. The times of photography were not needed because of 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 office interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore details were compiled from office interpretation of the 1971 compilation photographs with the 1977 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. See Item #31.

37 - LANDMARKS AND AIDS

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

38 - CONTROL FOR FUTURE SURVEYS

None.

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. See Item #32.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey Quadrangles: Belle Isle, Mich.-Ont., scale 1:24,000, 1968, photorevised 1973; and Detroit, Mich.-Ont., scale 1:24,000, 1968, photorevised 1973.

47 - COMPARISON WITH NAUTICAL CHARTS

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

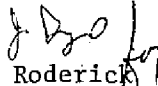
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

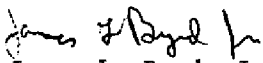
ITEMS TO BE CARRIED FORWARD

None.

Submitted by,


J. Roderick
Cartographer
May 31, 1979

Approved,


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

REVIEW REPORT
SHORELINE
T-12095

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: Belle Isle, Michigan-Ontario and Detroit, Michigan-Ontario. Both are dated 1968, photorevised 1973, and 1:24,000 scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

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

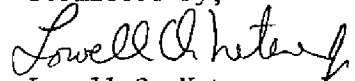
65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS Charts: 14848, 45th edition, scale 1:30,000, dated April 21, 1982; and 14853, 8th edition, scale 1:15,000, dated April 14, 1979.


66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

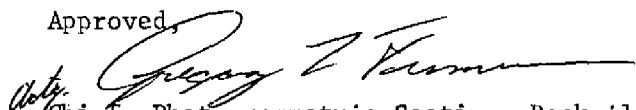
Submitted by,

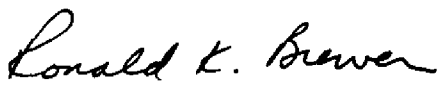

Lowell O. Neterer, Jr.
Final Reviewer

Approved for forwarding,


Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,


Chief, Photogrammetric Section, Rockville


Chief, Photogrammetry Branch,
Rockville

May 16, 1984

GEOGRAPHIC NAMES

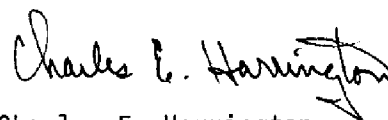
FINAL NAME SHEET

PH-7118 (Detroit River, Michigan)

TP-12095

Belle Isle	Grosse Pointe Park (locality)
Blue Heron Lagoon	Lake Muskoday
Canadian National (RYS)	Lake Okonoka
Conners Creek	Lake St. Clair
Conrail (RR)	Lake Tacoma
Detroit	MacArthur Bridge (cultural)
Detroit River	Peche Island
East Windsor	Riverside
Essex Terminal (RY)	Scott Middle Ground
Fleming Channel	Windmill Point
Grand Trunk Western (RR)	Windsor

Approved by:



Charles E. Harrington
Chief Geographer
Nautical Charting Division

NOAA FORM 76-40 (6-74) Replaces C&GS Form 567.		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY	
NONFLOATING AIDS OR MARKERS FOR CHARTS		LOCALITY	STATE	DATE	<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)		
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED		REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Unit AMC, Norfolk, VA		DATE 5/30/79			
The following objects HAVE <input type="checkbox"/> HAVE NOT <input checked="" type="checkbox"/> been inspected from seaward to determine their value as landmarks.		DATUM		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED	
OPR PROJECT NO. N.A. PH-7118 T-12095		SURVEY NUMBER		N.A. 1927			
CHARTING NAME (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)		POSITION		OFFICE		FIELD	
		LATITUDE	LONGITUDE				
		° / ' / "	° / ' / "				
		D.M. Meters	D.P. Meters				
** LIGHTS	Memorial Park Marina Lights (east)			Not identifiable		14848 14853	
** LIGHTS	Memorial Park Marina Lights (west)			Not identifiable		14848 14853	
** LIGHT	Charted as two lights but listed only once in both 1979 and 1984 Light Lists.						
LIGHT	Canadian light--not listed in U.S. Light List			Not identifiable		14848 14853	
LIGHT	Detroit Boat Club Light	42 20	82 59	77 E (C) 1137	May 28, 1977	14848 14853	
LIGHT	Waterworks Intake Crib Light	42 21	82 59	77 E (C) 1141	May 28, 1977	14848 14853	
LIGHT	Waterworks Intake Lagoon Light	42 21	82 57	77 E (C) 1141	May 28, 1977	14848 14853	
LIGHT	Belle Isle Light	42 20	82 57	77 E (C) 1139	May 28, 1977	14848 14853	
LIGHT	William Livingstone Memorial Light (Belle Isle, William Livingstone Lighthouse, 1932)	42 20	82 57	77 E (C) 1141	May 28, 1977	14848 14853	
LIGHTS	Memorial Park Marina West Entrance Lights	42 20	82 57	Not identifiable		14848 14853	

TYPE OF ACT

OBJECTS INSPECTED FROM

POSITIONS DETERMINED AN

FORMS ORIGINATED BY QU
AND REVIEW GROUP AND F
ACTIVITIES

OFFICE

1. OFFICE IDEN

Enter the n
day, and ye
identify an
EXAMPLE: 7
8

FIELD

1. NEW POSITIC

- Enter the a
- F - Field
- L - Located
- V - Verified
- 1 - Triangu
- 2 - Travers
- 3 - Interse
- 4 - Resecti

A. Field po
location
EXAMPLE:

*FIELD POSITION
vations based

TYPE OF ACTION	RESPONSIBLE PERSONNEL	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD		<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	F. Margiotta	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		<input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' <i>(Consult Photogrammetric Instructions No. 64)</i>		
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	
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 A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	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.	
*FIELD POSITIONS are determined by field observations based 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.		NONFLUORINATING AIDS OR LANDMARKS FOR CHARTS		LOCALITY		<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH <i>(See reverse for responsible personnel)</i>	
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED	REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Unit AMC, Norfolk, VA	STATE Michigan	LOCALITY Detroit River		DATE 5/30/79		
The following objects HAVE <input type="checkbox"/> HAVE NOT <input checked="" type="checkbox"/> been inspected from seaward to determine their value as landmarks.		DATUM N.A. 1927		METHOD AND DATE OF LOCATION (See instructions on reverse side)			
OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	POSITION		OFFICE	FIELD	
N.A.	PH-7118	T-12095	LATITUDE	LONGITUDE			
			° / ' / ''	° / ' / ''			
			D.M. Meters	D.P. Meters			
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)						
FP	Belle Isle--lower center		42 20	82 58	77 E (C) 1139 May 28, 1977	14848 14853	
CARILLON	Formerly NWS signal at Coast Guard Station on Chart 14853 April 76		42 20	82 57	77 E (C) 1139 May 28, 1977	14848 14853	
FP	Belle Isle		42 20	82 57	77 E (C) 1137 May 28, 1977	14848 14853	
* CUPOLAS	Northeasterly of Two		42 19	83 00	77 E (C) 1137 May 28, 1977	14848 14853	
* CHYS	Northeasterly of Four		42 19	82 59	77 E (C) 1137 May 28, 1977	14848 14853	
* CHYS	Northwesterly of Four		42 19	83 00	77 E (C) 1137 May 28, 1977	14848 14853	
* TANK			42 19	82 59	77 E (C) 1137 May 28, 1977	14848 14853	
* CUPOLAS	Southwesterly of Two		42 19	83 00	77 E (C) 1137 May 28, 1977	14848 14853	
STACK	Northwesterly of Two		42 20	83 00	77 E (C) 1137 May 28, 1977	14848 14853	
STACK	Southwesterly of Two		42 20	83 00	77 E (C) 1137 May 28, 1977	14848 14853	

TYPE OF ACTION

OBJECTS INSPECTED FROM SEAWARD

POSITIONS DETERMINED AND/OR VERIFIED

FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES

OFFICE

1. OFFICE IDENTIFIED / Enter the number and day, and year) of identify and locate
EXAMPLE: 75E(C)601 8-12-75

FIELD

- 1. NEW POSITION DETERMINED
- Enter the applicable
- F - Field
- L - Located
- V - Verified
- 1 - Triangulation
- 2 - Traverse
- 3 - Intersection
- 4 - Resection

A. Field positions location and date
EXAMPLE: F-2-6-8-12-75

*FIELD POSITIONS are determined based entirely on

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION										ORIGINATING ACTIVITY	
NONFIXATING AIDS OR LANDMARKS FOR CHARTS		REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Unit AMC, Norfolk, VA		STATE Michigan		LOCALITY Detroit River		DATE 5/30/79		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED	
The following objects HAVE <input type="checkbox"/> HAVE NOT <input checked="" type="checkbox"/> been inspected from seaward to determine their value as landmarks.		JOB NUMBER PH-7118		SURVEY NUMBER T-12095		DATUM N.A. 1927		POSITION		OFFICE		FIELD	
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			
		D.M. Meters	D.P. Meters	D.M. Meters	D.P. Meters								
TANK		42 20	40.48	83 00	12.49	77 E (C)	1137	May 28, 1977			14848	14853	
STACKS	Southwesterly of Seven S STACK on Chart 14853	42 21	29.26	82 57	37.40	77 E (C)	1141	May 28, 1977			14848	14853	
STACK		42 21	32.96	82 55	48.76	44 E (C)	1143	May 28, 1977			14848	14853	
R TR	(Detroit Radio Station K.Q.A. 414 Northeast Mast, 1957)	42 20	17.597	82 59	57.479	77 E (C)	1137	May 28, 1977			14848	14853	
R TR	(Detroit Radio Station K.Q.Q. 414 Southwest Mast)	42 20	14.817	83 00	00.271	77 E (C)	1137	May 28, 1977			14848	14853	
FOUNTAIN	James Scott Memorial Fountain	42 20	05.87	82 59	57.70	77 E (C)	1137	May 28, 1977			14848	14853	
T.V. MAST	(Windsor T.V. Station CKLW, Mast, 1957)	42 18	59.534	83 02	58.371	77 E (C)	1134	May 28, 1977			14848	14853	
R RELAY TR	(Windsor--Canadian Pacific Railroad, Relay Tower 1957)	42 19	02.347	83 02	56.233	77 E (C)	1134	May 28, 1977			14848	14853	
BLDG	City National Bank	42 19	48.81	83 02	51.51	77 E (C)	1134	May 28, 1977			14848	18453	
R MAST		42 19	56.62	83 02	54.95	77 E (C)	1134	May 28, 1977			14848	14853	

*

*

TYPE OF ACTION		RESPONSIBLE PERSONNEL	
NAME		ORIGINATOR	
OBJECTS INSPECTED FROM SEAWARD		<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)	
POSITIONS DETERMINED AND/OR VERIFIED	F. Marijotta	FIELD ACTIVITY REPRESENTATIVE	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		<input 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	
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 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	
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.		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.

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
5/30/79

NONEXHAUSTIVE LANDMARKS FOR CHARTS
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

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)

The following objects HAVE HAVE NOT been inspected from seaward to determine their value as landmarks.
OPR PROJECT NO. _____ JOB NUMBER _____ SURVEY NUMBER _____ DATUM _____

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION				METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED
		LATITUDE		LONGITUDE		OFFICE	FIELD	
		° / ' / ''	D.M. Meters	° / ' / ''	D.P. Meters			
N.A.	PH-7118 T-12095	N.A. 1927						
R MAST		42 19	54.97	83 02	41.84	77 E (C) 1134	14848	
F P	Library	42 20	2.24	83 02	51.63	May 28, 1977	14853	
TANK		42 20	10.24	83 01	11.14	77 E (C) 1134	14848	
TANK		42 20	316	83 01	255	May 28, 1977	14853	
TANK		42 20	18.93	83 00	41.80	77 E (C) 1134	14848	
TANK		42 20	584	83 00	957	May 28, 1977	14853	
TANK		42 20	44.24	83 00	25.34	77 E (C) 1134	14848	
STACKS	Northwesterly of Seven (Detroit Edison Company Plant, North Stack, 1932)	42 21	1365	82 57	580	May 28, 1977	14853	
T R	New building--center of five towers	42 19	31.771	82 57	36.229	77 E (C) 1141	14848	
			44.01		23.58	May 28, 1977	14853	
			1358	83 02	540			
	* Landmarks on the Canadian side of the river							

OBJECTS INSP

EXHIBITIONS DET

FORMS ORIGIN
AND REVIEW G
ACTIVITIES

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