

T-12096

T- 12096

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

DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED

Map No.

T-12096

Edition No.

1

Job No.

PH-7118

Map Classification

CLASS III FINAL

Type of Survey

SHORELINE

LOCALITY

State

MICHIGAN

General Locality

DETROIT RIVER

Locality

ROUGE RIVER

19₇₁ TO 19₇₈

REGISTERED IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY ☒ ORIGINAL ☐ RESURVEY ☐ REVISED		SURVEY <u>TP-12096</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III Final</u> JOB <u>PH7118</u>					
DESCRIPTIVE REPORT - DATA RECORD									
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center Norfolk, VA OFFICER-IN-CHARGE A. Y. Bryson		LAST PRECEEDING MAP EDITION <table style="width:100%;"> <tr> <td style="width:50%;">TYPE OF SURVEY</td> <td style="width:50%;">JOB</td> </tr> <tr> <td> ☒ ORIGINAL ☐ RESURVEY ☐ REVISED </td> <td> PH- MAP CLASS SURVEY DATES: 19__ TO 19__ </td> </tr> </table>				TYPE OF SURVEY	JOB	☒ ORIGINAL ☐ RESURVEY ☐ REVISED	PH- MAP CLASS SURVEY DATES: 19__ TO 19__
TYPE OF SURVEY	JOB								
☒ ORIGINAL ☐ RESURVEY ☐ REVISED	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 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			4. GRID(S)						
Lambert Conformal			STATE		ZONE				
			Michigan		South				
5. SCALE			STATE		ZONE				
1:15,000									
III. HISTORY OF OFFICE OPERATIONS									
OPERATIONS			NAME		DATE				
1. AEROTRIANGULATION BY			D. Brant		June 1972				
METHOD: Analytic LANDMARKS AND AIDS BY			H. Eichert		June 1972				
2. CONTROL AND BRIDGE POINTS PLOTTED BY			D. Brant		Aug 1977				
METHOD: Coradomat CHECKED BY			H. Eichert		Aug 1977				
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY			J. Roderick		Oct 1977				
COMPILATION CHECKED BY			L. Neterer, Jr. J. Byrd		Oct 1977				
INSTRUMENT: Wild B-8			CONTOURS BY		N.A.				
SCALE: 1:15,000			CHECKED BY		N.A.				
4. MANUSCRIPT DELINEATION PLANIMETRY BY			J. Roderick		March 1979				
CHECKED BY			L. Neterer		Oct 1979				
METHOD: Smooth drafted			CONTOURS BY		N.A.				
and graphic			CHECKED BY		N.A.				
SCALE: 1:15,000			HYDRO SUPPORT DATA BY		N.A.				
CHECKED BY			N.A.		N.A.				
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY			L. Neterer		Oct 1979				
6. APPLICATION OF FIELD EDIT DATA BY			N.A.		--				
CHECKED BY			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. KORASPAN		FEB 1985				

T-12096
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 ZONE Central MERIDIAN 90th	
TIDE STAGE REFERENCE ☐ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY				☒ STANDARD ☐ DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
71L (c) 4731-4733	May 4, 1971	Not needed	1:30,000	N.A.	
* 71L (c) 5611-5613	May 14, 1971		1:30,000		
71L (c) 4706-4708	May 4, 1971		1:30,000		
77E (c) 1105-1111	May 28, 1977		1:20,000		
77E (c) 1126-1130	May 28, 1977		1:20,000		
78E (p) 9624-9628	Apr 26, 1978		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 Fort Wayne Gage was 573.64 feet or 1.94 feet above the Lake St. Claire Low Water Datum.

2. SOURCE OF MEAN HIGH WATER LINE: Shoreline

All river levels were measured at the Fort Wayne Gage.
The river level on May 4, 1971 was 573.43 feet.
The river level on May 28, 1977 was 573.46 feet.
The river level on April 26, 1978 was 573.92 feet.
The shoreline on both sides of the river was compiled by photo interpretation of the above listed color 1971 compilation/bridging photography. The American side of the river was updated using 1977 color photography. The Canadian side of the river was updated using 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
No survey	T-12095	T-12097	No survey

REMARKS

T-12096
HISTORY OF FIELD OPERATIONSI. ☒ FIELD INSPECTION OPERATION (Premarking) ☐ 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 (Triangulation Stations) BY	
	LOCATED (Field Methods) BY	
	IDENTIFIED BY	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☐ NO INVESTIGATION	BY
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

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

T-12096

REGIONS OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete, pending field edit.	Mar1979	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
1		NOV 30 1984	Aids for navigation
4		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	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS	

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT
T-12096

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 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 152.21 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. 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 October 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-12096

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. This target could not be seen on the 1:30,000 scale bridging photography and was not used in the adjustment. Horizontal control was adequate.

24. Supplemental Data

USGS quadrangles and maps (Mines and Technical Surveys of Canada) were used to provide vertical control for the strip adjustment.

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:

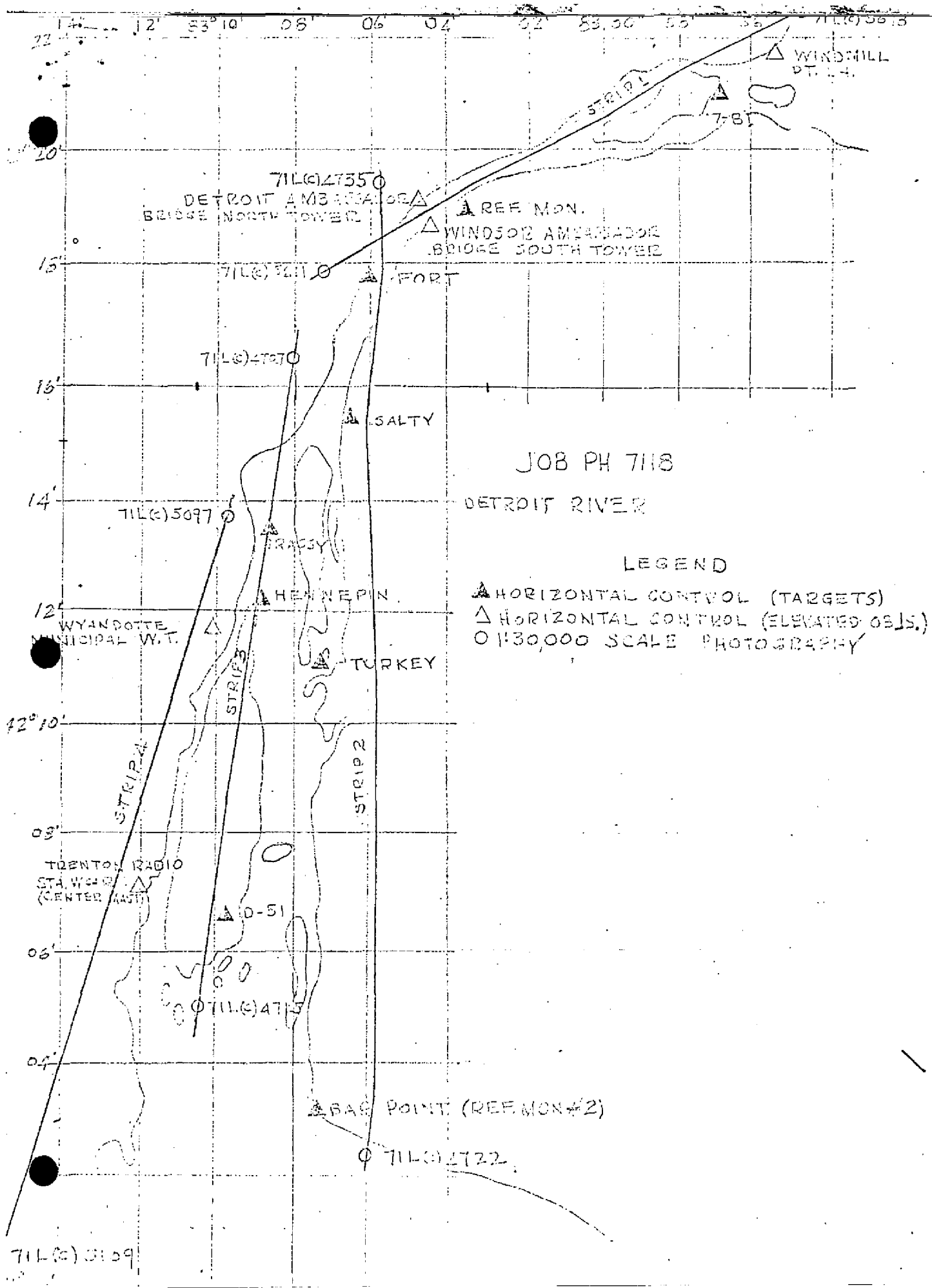


Donald M. Brant
Cartographer

Approved and forwarded:



Henry P. Eichert, Chief
Aerotriangulation Section



COMPILATION REPORT
T-12096

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, using 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 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 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. See Item #31.

37 - LANDMARKS AND AIDS

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

38 - CONTROL FOR FUTURE SURVEYS

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: Dearborn, Michigan, scale 1:24,000, dated 1968, photorevised 1973; and Detroit, Michigan-Ontario, scale 1:24,000, dated 1968, 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 Roderick
Joanne Roderick
Cartographer
March 12, 1979

Approved,

James L. Byrd, Jr.

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

REVIEW REPORT
SHORELINE
T-12096

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

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

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

65. COMPARISON WITH NAUTICAL CHARTS

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

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,

Gregory Z. Thomas

Chief, Photogrammetry Section, Rockville

Ronald K. Brewer

Chief, Photogrammetry Branch,
Rockville

May 16, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7118 (Detroit River, Michigan)

TP-12096

Ambassador Bridge (cultural)

Chesapeake and Ohio (RY)

Conrail (RR)

Detroit

Detroit River

Detroit Toledo and Ironton (RR)

Ecorse

Essex Terminal (RY)

Norfolk and Western (RY)

Old Channel

River Rouge

River Rouge (locality)

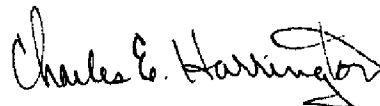
Short Cut Canal

Windsor

Yawkey

Zug Island

Approved by:



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				ORIGINATING ACTIVITY				
NONFLOATING AIDS ON THE WATER FOR CHARTS				LOCALITY				DATE				
REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Unit, AMC, Norfolk, VA				STATE Michigan				Detroit River				
DATE Aug. 1977												
The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks. OPR PROJECT NO.				JOB NUMBER PH-7118				SURVEY NUMBER T-12096				
CHARTING NAME N/A				DATUM N.A. 1927				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.)				POSITION LATITUDE LONGITUDE D.M. Meters ° ' " D.P. Meters				OFFICE FIELD CHARTS AFFECTED				
LIGHT	Detroit Edison Cell Light 2							NOT IDENTIFIABLE				14853 14848
LIGHT	Detroit Edison Cell Light 1							"				"
LIGHT *	North Pier Light (Not in 1977 Light List or 1983)							"				"
LIGHT *	South Pier Light (Not in 1977 Light List or 1983)							"				"
LIGHT	Detroit Lime Company Light							"				"
	*These lights are on the Canadian side of the river and are not carried in the U.S. Light List.											

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 A (Consult Photogrammetric Instruction)	
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 (C) B. R C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KK KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LL LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MM MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NM NN NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VV VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ

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 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-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 II. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75
**FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	

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 of day, and year) of identify and local EXAMPLE: 75E(C)6 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-2-1 8-12-75
*FIELD POSITIONS are confirmed positions based entirely on

NOAA FORM 76-40 (8-74) Replaces CGCS 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 (If field Party, Ship or Office) Coastal Mapping Unit, AMC, Norfolk, VA				LOCALITY Detroit River				DATE Aug. 1977			
The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.				JOB NUMBER PH-7118				SURVEY NUMBER T-12098				DATUM 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		LONGITUDE		POSITION		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED					
		° /	D.M. Meters	° /	D.P. Meters		OFFICE	FIELD							
STACKS	Northeasterly of thirteen	42 15	9.04 229	83 07	27.79 637		77 E(C) 1105 May 28, 1977		14853 14848						
STACKS	Southwesterly of thirteen	42 15	3.34 108	83 07	33.76 774		"		"						
STACKS	Northwesterly of Ten	42 15	22.26 687	83 07	31.32 718		"		"						
STACKS	Southeasterly of Ten	42 15	19.22 593	83 07	26.09 598		"		"						
TANK		42 16	16.24 501	83 08	12.83 294		77 E(C) 1107 May 28, 1977		"						
STACKS	Westerly of Three	42 16	26.67 823	83 06	46.21 1059		77 E(C) 1107 May 28, 1977		14848 14853 14854						
STACKS	Center of Three	42 16	26.28 811	83 06	44.81 1027		77 E(C) 1107 May 28, 1977		"						
STACKS	Easterly of Three	42 16	25.96 801	83 06	43.20 990		"		"						
TOWER *		42 15	21.00 648	83 06	10.25 235		78 E(C) 9627 April 26, 1978		14853 14848						

TYPE

OBJECTS INSPECTED

POSITIONS DETERMINED

FORMS ORIGINATED
AND REVIEW GROUP
ACTIVITIES

OFFICE
1. OFFICE

Enter
day,
ident
EXAMP

FIELD

1. NEW P

Enter

F - F

L - L

V - V

1 - T

2 - T

3 - 1

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for

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*FIELD POS
ITIONS

[illegible]

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 *PHOTOGAMMETRIC 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.	

