

TP-00950

TP-00950

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey .. Shoreline Harbor Chart

Job No. ... CM-7603 Map No. ... TP-00950

Classification No. ... III Edition No.

This map edition will not be field edited

LOCALITY

State ... Ohio

General Locality ... Lake Erie

Locality ... Toledo Harbor

19 75 TO 19

REGISTRY IN ARCHIVES

DATE

10523

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY ☒ ORIGINAL ☐ RESURVEY ☐ REVISED		SURVEY TP. 00950 MAP EDITION NO. (1) MAP CLASS III JOB # CM-7603	
DESCRIPTIVE REPORT - DATA RECORD				LAST PRECEDING MAP EDITION			
				TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED		JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__	
PHOTOGRAMMETRIC OFFICE Photogrammetry Division Rockville, MD				OFFICER-IN-CHARGE Cdr. James Collins			
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Instructions-Aerotriangulation-Job CM-7603 Oct. 20, 1976 Instructions-Supplement I - To Aerotriangulation Job CM-7603 - Oct. 28, 1976 Instructions-Compilation - Job CM-7603 Mar. 14, 1977 and Feb. 16, 1979 Correspondence - Field Edit Cancellation Mar. 5, 1980				Instructions - Field - Job CM-7603 - Aug. 27, 1975			
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) Lake Erie Low Water Datum based on International Great Lakes Datum (IGLD) 1955			
3. MAP PROJECTION Lambert Conformal CONIC				4. GRID(S) STATE Ohio ZONE North			
5. SCALE 1:20,000				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY				S. Solbeck		3/77	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Cal Comp CHECKED BY				J. Taylor		4/77	
				R. Rich		6/77	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY				R. Rich		6/77	
INSTRUMENT: Wild B-8 Stereo				P. Dempsey		"	
SCALE: 1:20,000				N/A			
				N/A			
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY				R. Rich		May 78	
METHOD: Graphically Smooth Drafting				P. Dempsey		Feb 79	
				N/A			
SCALE: 1:20,000 HYDRO SUPPORT DATA BY CHECKED BY				N/A			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				P. Dempsey		Feb 79	
6. APPLICATION OF FIELD EDIT DATA BY				Field Edit Canceled			
				N/A			
7. COMPILATION SECTION REVIEW BY				P. Dempsey		April 1981	
8. FINAL REVIEW BY				J. Schad		Sept. 1982	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				F. Wright		Sept 1982	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				J. Schad		Oct 1982	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				(Signed)		4 1983	

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

COMPILATION SOURCES

TP-00950

1. COMPILATION PHOTOGRAPHY

CAMERA(S) 152.74 mm RC-10 "B" 6" Focal length		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE ☐ PREDICTED TIDES ☒ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY				ZONE Eastern MERIDIAN 60th	☐ STANDARD ☒ DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
75B(C) 5552-5564	14 Sept 75	1831	1:20,000	+3.83 Ft. Lake Erie	
75B(C) 5490-5496	14 Sept 75	1505	1:20,000	Low Water Datum Toledo Gage	
75B(C) 6216-6220	4 Oct. 75	1519	1:60,000	+3.48 Ft. Lake Erie	
75B(C) 6224-6226	4 Oct 75	1531	1:60,000	Low Water Datum, Toledo Gage	

REMARKS The lake level at the time of photography was 572.43 for 1:20,000 and 572.08 for 1:60,000 based on the International Great Lakes Datum 1955. (Toledo Gage)

2. SOURCE OF MEAN HIGH-WATER LINE: the SHORELINE is:

The photographs listed above.

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

N/A

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

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

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
	NO CONTEMPORARY	SURVEYS	

REMARKS

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

HISTORY OF FIELD OPERATIONS

TP-00950

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Robert S. Tibbetts	Sept 1975
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	" " "
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N/A

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED None		2. VERTICAL CONTROL IDENTIFIED None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details) N/A			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE		6. 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			

NOAA FORM 76-36C
(3-72)

HISTORY OF FIELD OPERATIONS

TP-00950

I. ☒ FIELD INSPECTION OPERATION Landmark and Aids Investigation ☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Tibbetts	June 1976
2. HORIZONTAL CONTROL	RECOVERED BY None ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY None ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY L. Davis LOCATED (Field Methods) BY " IDENTIFIED BY "	June 1976 " "
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N/A	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED None	2. VERTICAL CONTROL IDENTIFIED None		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

N/A

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
75B(C) 5479	TV Mast	75B(C) 5556	Stacks (8)
5480	TV Mast (2)	5558	Lights (2), tank
5481	TV Mast	5559	Tower (7), tank, stack(2)
5482	TV Mast		Micro tr
75B(C) 5493	Lights (2)	5560	Tanks (2), stacks (5), flares (2), spires (3), twin cupola (2), tower radio tr, micro tr
5494	Chimney	5561	Tower (2) stacks (3), bldg., micro tr
5495	Radio Mast		
5. GEOGRAPHIC NAMES:	☐ REPORT ☒ NONE		
7. SUPPLEMENTAL MAPS AND PLANS	None		
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geographic Division)		5562	Spire, radio mast, elevator
9 NOAA Forms 76-40		5563	Tank, spire (2), elevator, tower (2)
		5564	Stacks (3)

RECORD OF SURVEY USE

TP-00950

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Final Reviewed Map	Nov 1982	Class. III Map (Final)		

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
9 Pages		Nov 1982	Landmarks/Aids for charting via NOAA Form 76-40

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

III. FEDERAL RECORDS CENTER DATA

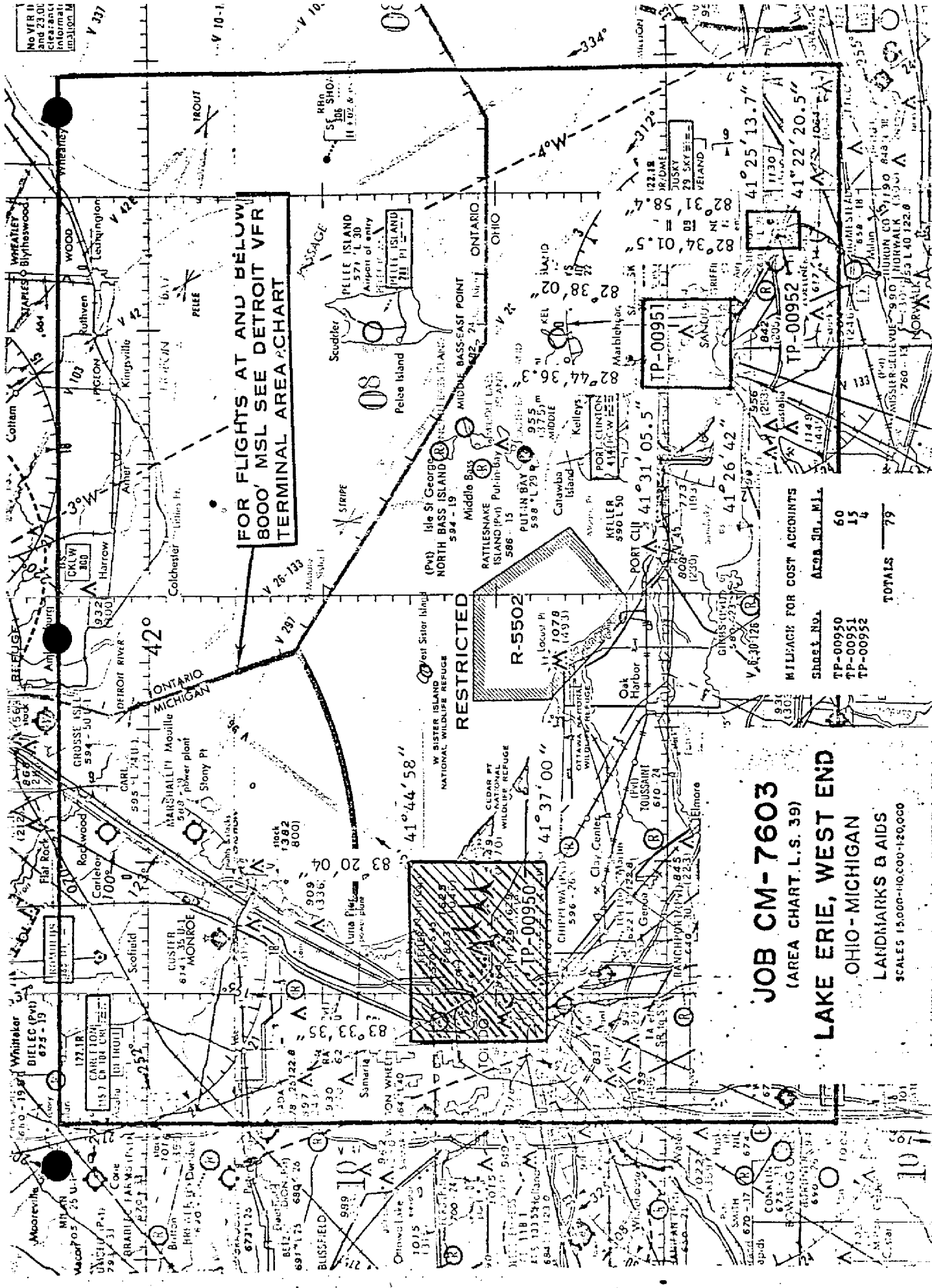
1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS 507 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

Duplicate of NOAA forms 76-40
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

FEB 1983

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	



FOR FLIGHTS AT AND BELOW
8000' MSL SEE DETROIT VFR
TERMINAL AREA CHART

RESTRICTED

JOB CM-7603

(AREA CHART L.S. 39)

LAKE ERIE, WEST END

OHIO-MICHIGAN

LANDMARKS & AIDS

SCALE 1:50,000-1:100,000

MILWAUKEE FOR COST ACCOUNTS

Sheet No. AREA IN. M.I.

TP-00950 60

TP-00951 15

TP-00952 4

TOTALS

79

Summary
TP-00950

This map is one of three shoreline maps, TP-00950, TP-00951, and TP-00952, that comprise of Job CM-7603. The purpose of this job is to provide contemporary shoreline data and alongshore detail for nautical chart revision. This map portrays the shoreline and alongshore details of Maumee Bay, North Maumee Bay, Maumee River, Ottawa River, Shantee Creek, Halfway Creek and Hooper Run.

Field operations was accomplished in September 1975 and June 1976 and consisted of the provision of aerial photographs, recovery, location and identification of landmarks and aids to navigation. 7A

Natural color photographs were taken September 14, 1975, at 1:20,000 scale and October 4, 1975, at 1:60,000 scale with the Wild RC-10(B) camera. The photographs were provided to aerotriangulation and compilation sections.

Aerotriangulation was performed at the Washington Science Center, Rockville, Maryland. The photographs were bridged using analytic aerotriangulation methods.

Compilation was performed in May 1978 at the Washington Science Center, Rockville, Maryland, by the Coastal Mapping Section.

Final Review of this map was performed at the Washington Science Center, Rockville, Maryland, October 1982. This map complies with the National Map Accuracy Standards.

A copy of TP-00950, labeled Chart Maintenance Print, was prepared during the final review and forwarded to the Marine Chart Division. Accompanying the above forwarded copy are NOAA Forms 76-40 listing the landmarks and nonfloating aids to navigation.

The context of the Descriptive Report contains all pertinent reports and listings of data used to compile this final map.

Field Inspection

TP-00950

Field inspection operation consist of the recovery and establishment of horizontal control and the investigation and identification of landmark and aid to navigation.

Photogrammetric Plot Report

.. CM-7603

Lake Erie-West End

March 1977

21. Area Covered

This report covers the western shoreline of Lake Erie from Huron, Ohio, clockwise along the Ohio and Michigan shoreline to Point Pelee in Ontario, Canada. Three TP-sheets are to be compiled in the order listed: Toledo, Ohio (1:20,000); Sandusky, Ohio (1:10,000); Huron, Ohio (1:5,000).

22. Method

Twenty-one strips of color photography were bridged by analytic aerotriangulation methods. Seven strips of 1:60,000 scale photography were bridged to provide control for the 1:20,000 scale photography. Fourteen strips of 1:20,000 scale photography were bridged to establish positions for field identifiable landmarks, aids to navigation, pass points and supplemental objects. A portion of the 1:60,000 scale photography was ratioed to provide supplemental coverage to TP-00950. Bridge points were used to determine ratio values for all photography being used for compilation.

23. Adequacy of Control

The control proved adequate according to map accuracy standards. However, in achieving these standards, some difficulties were encountered. Whenever possible, all panels were held in the strip adjustments, otherwise, tie points and home stations were used.

To the west of Huron, Ohio, one panel, Camp Boss, 1956 (C&GS), was barely held within National Map Accuracy Standards for the nearby 1:5,000 scale TP-sheet. It was left in the adjustment as no reason for this result was determined. This TP-sheet is to be compiled from 1:20,000 scale color photography and, thus, adequate control is critical. Except for the above station, no further control problems came up in this immediate area.

To the north of Sandusky Bay, two stations, Port Clinton Municipal Water Tank, 1956 (C&GS), and the sub point to Port Clinton Standard Products Company Water Tank, 1956 (C&GS) varied by as much as nine feet between three strips of photography.

The primary 1:60,000 scale bridging strip covering the Michigan shoreline was held to National Map Accuracy Standards. However, the amount of error was in excess of that normally expected for a project of this type. Two panels (sub points to the home station) are cited: Luna Pier Consumers Power Water Tank (USLS) and Point Aux Peaux Enrico Fermi Water Tank (USLS) (no dates given for either tank). The former was proved in error by verifying the home station, but the latter matched the reading of the home station.

Although the positions attained during aerotriangulation are acceptable, the degree of discrepancy is especially significant as the 1:60,000 scale bridging strips are the primary, if not the sole source, of control for the compilation photography. Any errors occurring in this latter photography will only compound any error in the bridging photography and make the compiler's job more difficult.

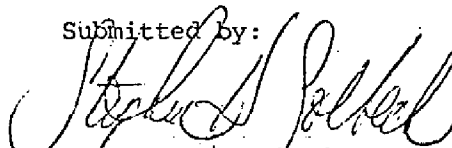
24. Supplemental Data

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

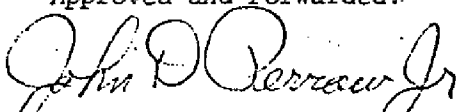
25. Photography

The quality of the photography was adequate for the job. The coverage of the 1:20,000 scale compilation photography missed small areas on two of the TP-sheets: To the west of TP-00951, part of Johnson Island is missing. To the east of TP-00950, the tip of Cedar Point is not covered. On this same TP-sheet, part of the 1:20,000 scale strip (75-B(C) 5552-5554) had to be dropped due to lack of control and this eliminated a series of lights extending bayward from Toledo. To the north of Toledo, North Cape and surrounding islands were not covered. In order to alleviate the problems on TP-00950, a portion of the 1:60,000 scale bridging photography was ratioed.

Submitted by:


Stephen H. Solbeck

Approved and Forwarded:

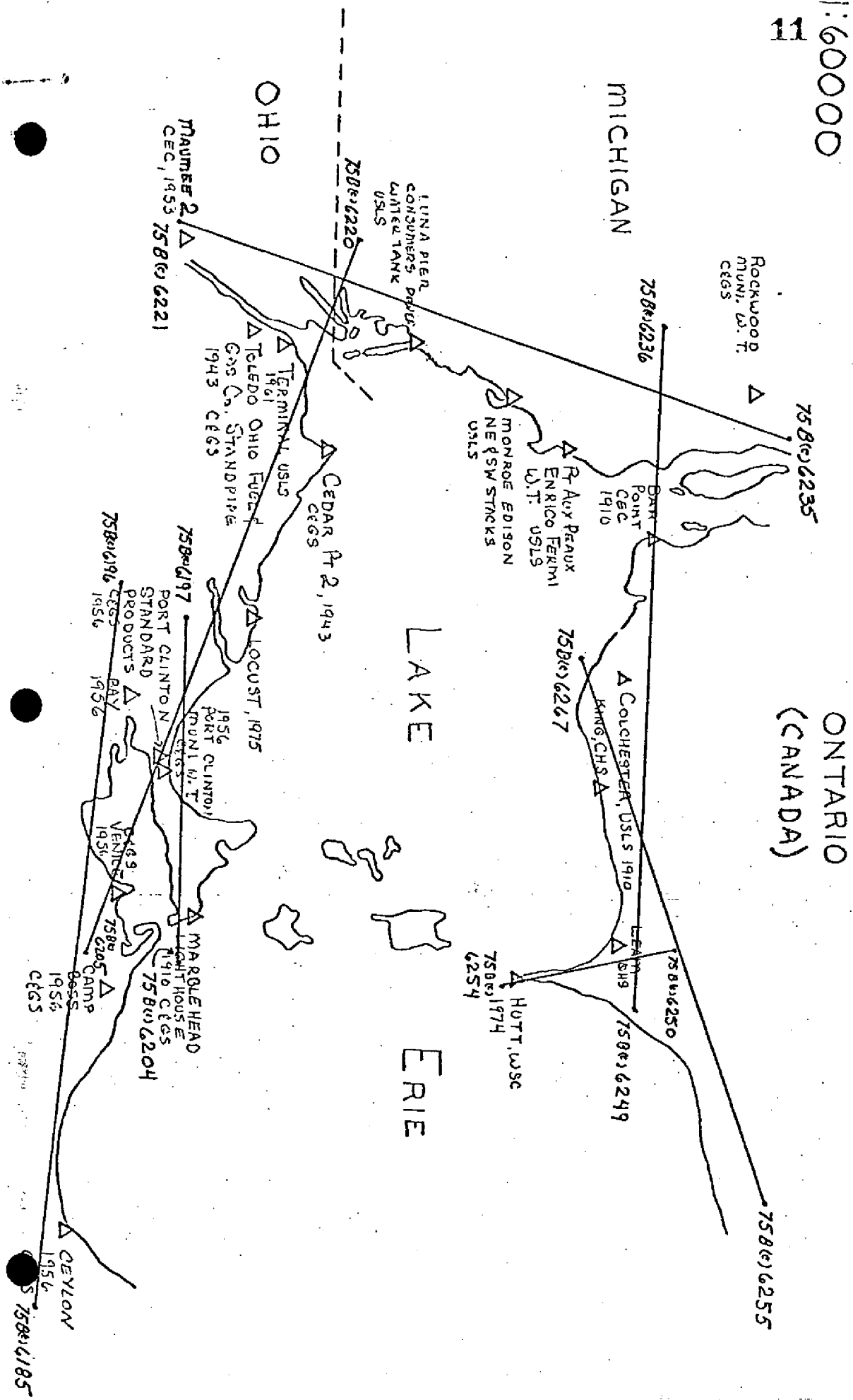


John D. Perrow, Jr.
Chief, Aerotriangulation Section

CM 7603

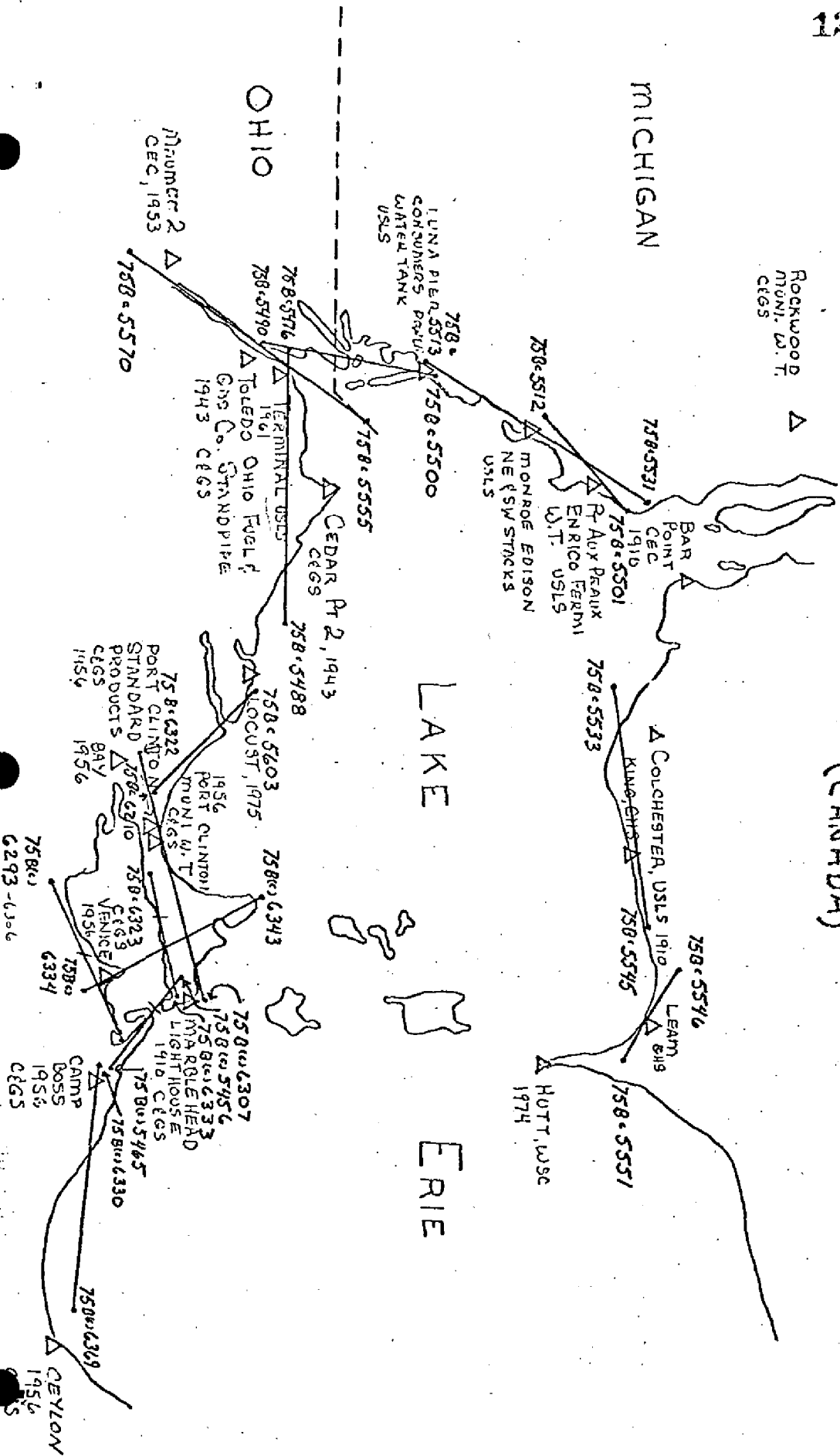
LAKE ERIE - WEST END

1:6000



TEROTRIANGULATION SKETCH M 7603 LAKE ERIE - West End 1:200000 21

ONTARIO
 (CANADA)



185100	Ceylon, 1956
185101	Sub Pt. (Panel)
188100	Camp Boss, 1956
188101	Sub Pt. A (Panel)
191100	Venice, 1956
191101	Sub Pt. (Panel)
192100	Port Clinton Muni Water Tank 1956
193100	Port Clinton Standard Products Co. Water Tank 1956
193101	Sub Pt. (Panel)
194100	Bay 1956
194101	Rm 1 (Panel)
203100	Marblehead Lighthouse 1910
203101	Sub Pt. (Panel)
213100	Locust 1975
213101	Sub Pt. (Panel)
216100	Cedar Pt. 2, 1943 (Panel)
218100	Terminal 1961 (USLS)
218101	Sub Pt. (Panel)
222100	Maumee 2, 1953
222101	Maumee Rm 1 (Panel)
227100	Luna Pier, Consumers Power Co. Water Tank (USLS)
227101	Sub Pt. (Panel)
229102	Monroe Edison SW Stack (USLS)
229103	Monroe Edison NE Stack (USLS)
231100	Point Aux Peaux Enrico Fermi Plant Tank (USLS)
231101	Sub Pt. (Panel)
234100	Rockwood Municipal Water Tank, 1957
234101	Sub Pt. (Panel)
239100	Detroit River Light
240100	Bar Point, 1910
240101	Sub Pt. A
240102	Sub Pt. B
242100	Colchester 1910
242101	Sub Pt. (Panel)
245100	King (CHS) 1910
245101	Sub Pt. (Panel)
247100	Leam (CHS) 1910
247101	Sub Pt. (Panel)
253100	Hutt (CHS) 1974
253101	Sub Pt. A (Panel)
257100	Coat

Where date is not listed, none was available.

	X	Y	Z
<u>STRIP #1</u>			
191101	- .69	- .12	581.67
192100	+ .44	+2.75	710.09
193101	+1.45	+2.65	573.71
194101	-2.00	-2.50	546.747
213101	+ .98	+ .26	569.88
216100	+ .69	- .06	574.56
218101	- .45	- .23	609.15

<u>STRIP #2</u>			
218101	+5.50	+2.16	616.68
222101	- .61	- .40	634.56
227100	-2.95	- .66	803.20
227101	-9.21	- .07	586.18
229102	+ .44	- .43	1383.51
229103	- .06	-7.08	1370.03
231100	+9.33	-4.80	771.49
231101	+9.17	- .45	566.78
234100	-2.02	-5.78	690.78
234101	-4.88	-1.17	587.30

<u>STRIP #3</u>			
234100	+2.64	-3.92	697.09
234101	- .73	-2.22	591.23
239100	+3.93	-10.62	585.94
239102	-7.68	+4.70	582.39
239103	-11.22	+ .92	576.07
239104	-10.88	+6.78	583.93
240101	-3.44	- .35	574.77
240102	+1.08	+4.56	575.81
242101	+ .44	-1.83	643.75
245101	-1.39	-1.97	602.52
247101	+ .64	+1.47	584.09

<u>STRIP #4</u>			
251820	-1.72	+4.00	590.75
251821	+4.93	+ .75	598.96
247101	+2.17	+ .32	578.76
252802	-5.56	-5.58	572.65
253101	+ .18	+ .52	591.35

STRIP #5

	X	Y	Z
242101	+1.12	- .85	644.19
245101	-4.71	+1.05	597.33
247101	-3.62	-12.08	572.32
257100	- .78	+ .18	611.21
260820	+2.25	-1.99	627.37
261820	+2.11	+1.60	720.27
263820	+ .53	+ .84	629.27
263821	+ .89	+2.32	599.05
264820	-2.35	+4.90	590.81
264821	-1.27	+4.15	605.92

STRIP #6

185101	+ .10	-1.58	609.50
188101	- .22	+2.99	626.15
191101	+1.98	+ .96	575.64
192100	+6.42	-5.99	716.08
193101	- .11	-5.64	578.76
194101	-1.78	+3.27	582.76

STRIP #7

192100	+5.99	-4.26	712.75
193101	+2.28	+3.52	584.66
198801	-2.05	- .25	573.95
198802	+ .29	+1.36	576.87
199801	+2.09	-3.21	587.59
199802	+1.33	-2.19	585.83
200801	+2.54	-3.11	584.52
200802	+1.48	-6.49	578.41
201801	+ .95	+ .72	578.26
201802	- .38	+1.01	593.97
201803	- .69	-4.66	582.04
203101	- .78	+1.19	596.07
203801	+6.04	-7.82	582.73
203802	+4.55	-5.63	581.70

STRIP #11

	X	Y	Z
456801	-1.18	-3.716	600.87
456802	- .27	+3.56	592.93
461801	-3.69	+ .46	579.18
461802	+2.98	+ .11	574.76
462801	+ .93	+ .30	576.64
462802	+ .57	-2.04	577.39
462803	+ .20	+2.25	577.55
462804	+3.74	+2.85	577.74
463801	-3.24	- .58	575.82
463802	+1.13	-1.77	578.25
465803	-1.15	-1.43	614.08

STRIP #12

188101	+1.98	+3.07	625.94
361801	+ .03	- .98	589.36
361802	-1.55	-1.90	635.12
361803	- .46	-1.22	614.59
363801	-1.17	+1.04	582.51
363802	- .47	- .67	601.92
365801	- .45	- .09	601.22
365802	+1.49	+1.25	613.09
185101	+ 1.01	-1.45	606.04
367802	+1.18	+ .41	621.39
369801	+ .14	+1.05	617.25
369802	-1.74	- .52	748.56

STRIP #13

293801	- .98	- .80	579.06
293802	+2.03	+1.80	584.33
296801	-1.68	-3.20	573.73
296802	- .94	+3.12	588.14
299801	-1.62	+1.01	574.84
299802	+1.58	-3.73	606.98
302801	+3.98	+1.82	597.77
302802	- .20	+ .67	604.71
305801	+ .05	-1.36	583.87
305802	-2.24	+ .67	584.77

X Y Z

STRIP #14

193101	+ .04	+2.83	580.39
324801	- .21	-2.35	581.66
324802	+1.25	-2.33	582.77
328801	- .53	- .31	577.52
328802	+1.91	+1.12	586.61
328803	-2.65	+1.07	578.17
203101	- .37	+1.34	583.89
333801	+ .55	-1.37	582.42

STRIP #15

203101	-1.82	- .02	580.25
312801	+2.17	+2.14	591.56
312803	+3.32	- .67	579.87
193101	-2.24	-1.05	578.03
318140	-2.92	-1.30	689.74
318141	-2.98	- .18	725.78
321802	+1.18	+3.31	579.23
322801	+2.27	-2.72	584.63
322802	+1.02	+ .49	579.16

STRIP #16

603801	+ .67	-1.13	577.10
603802	+3.15	+1.69	572.28
603803	-2.79	-2.48	576.51
606801	- .34	+3.24	573.74
606802	- .06	-1.92	576.54
609801	+1.13	+1.27	577.41
609802	-1.62	- .73	575.78
612801	- .37	- .08	576.26
612803	+ .23	+ .14	574.72

STRIP #17

476801	+2.21	+1.33	570.84
476802	- .83	-1.02	567.02
480801	- .79	+ .94	581.71
480802	+1.43	-3.22	584.12
482801	- .11	4.29	580.18
482802	+ .46	-1.92	585.66
484801	-1.44	+1.08	576.59
484802	- .81	-1.01	580.91
487802	- .13	- .47	568.17

X Y Z

STRIP #18

556801	+3.42	- .23	576.18
566802	-5.44	+3.98	577.69
556803	- .18	+1.77	573.21
558801	-1.66	-2.23	588.14
558802	+ .43	-4.78	570.14
560801	+5.55	+1.49	596.12
560802	+5.37	-3.94	596.92
563802	-3.10	+ .44	598.39
565801	-7.68	+3.47	618.03
565802	+ .94	+1.89	616.93
222101	-1.83	+4.30	627.11
570801	-1.44	-3.17	624.86
570802	+ .40	-2.72	596.47
570803	+5.23	- .28	642.71

STRIP #19

490801	- .98	+ .83	584.34
490802	-1.06	+ .72	594.19
490803	-4.29	- .35	603.12
492801	+9.04	-2.84	587.82
492803	+6.40	+1.03	576.87
494801	-1.33	-1.11	579.71
494802	-5.64	- .50	577.36
497801	- .49	+ .86	575.75
497802	-4.93	+1.50	573.05
500801	+2.85	+ .55	576.00
500802	+ .96	+ .86	579.54
500803	- .53	-1.54	572.54

STRIP #20

513801	+2.22	+1.90	582.45
513802	-2.88	-2.00	571.21
513803	+1.57	- .72	573.34
516802	- .44	- .42	576.53
519802	-2.32	- .07	588.77
522801	+4.95	+1.66	592.49
522802	- .21	- .62	579.85
525802	-3.29	-1.77	579.29
528801	+ .77	+1.51	593.99
528802	+1.28	+1.54	584.12
528803	-1.64	-1.01	579.98

X Y Z

STRIP #21

501801	- .25	- .67	581.66
501802	- .30	+ .95	575.99
503801	+ .24	-1.05	581.32
503802	+ .72	+1.04	578.75
505801	+ .06	-1.00	603.05
505802	- .47	+ .73	576.53

STRIP #22

533801	+ .50	+ .10	596.31
533802	- .29	- .34	610.47
536801	+ .71	+ .29	653.62
536802	- .32	- .09	625.27
539801	- .19	- .38	585.09
539802	-1.72	+2.39	609.81
542801	+2.04	- .75	601.17
542802	+ .63	-1.98	621.20
545801	- .33	- .47	631.84
545802	-1.04	+1.24	641.93

STRIP #23

547801	+1.32	+ .79	662.21
547802	- .12	-1.00	658.12
548801	-1.61	+ .63	586.36
247101	- .59	- .65	583.74
551801	+ .26	+1.24	584.06
551802	+ .75	-1.01	580.17

STRIP #27

334801	-2.59	-2.54	577.54
334802	- .35	+2.64	587.97
335801	+ .73	.59	577.21
339801	- .58	-3.00	592.11
339802	+2.27	+3.29	588.48
341801	- .12	+ .69	590.07
341802	+1.95	+ .41	583.66
342801	-1.76	+ .67	577.96
342802	+1.25	-1.22	576.92
343801	-1.52	-1.41	591.71
343802	+ .73	- .13	585.82

Compilation Report

CM-7603

TP-00950

31. Delineation

The shoreline and interior planimetric on this map was compiled by the Wild B-8 stereoplotting instrument, from 1:20,000 scale and 1:60,000 scale color photographs. The photographs were controlled by map points determined by Aerotriangulation.

The area north of latitude $41^{\circ}44'00''$ from Gard Island to North Cape was delineated graphically using the ratio color photograph 75B(C) 6226.

The shoreline, which is the lake level elevation (referred to the Low Water Datum) at the time of photograph, was compiled using the 1:20,000 scale and 1:60,000 scale color photographs.

32. Control

Refer to the Aerotriangulation Plot Report for the adequacy of the horizontal control.

The vertical control used in leveling the Wild B-8 stereoplotter instrument was obtained from USGS quadrangle maps.

33. Supplemental Data - None34. Contours and Drainage

Contours are not applicable. Drainage was compiled from office interpretation of the 1:20,000 scale 1:60,000 scale color photographs.

35. Shoreline and Alongshore Detail

The shoreline and alongshore detail was compiled by office interpretation of the photography.

36. Offshore Details

Rocks, foul areas, dolphins, ruins and marsh areas were delineated as shown on the photography.

37. Landmarks and Aids

Four aids and sixty-three landmarks were identified during Field Inspection. All landmarks located in Aerotriangulation were verified in compilation. One landmark was not identified during Field Inspection and was located during compilation.

38. Control for Future Surveys - None

39. Junctions

There are no junctions to be made with this map.

40. Horizontal and Vertical Accuracy

Control for this map complies with The National Map Accuracy Standards.

41. thru 45. - Inapplicable

46. Comparison with Existing Maps

Comparison was made with the following USGS quadrangle maps:

Reno Beach, Ohio, 1:24,000, 1967

Oregon, Ohio-Michigan, 1:24,000, 1965

Rossford, Ohio, 1:24,000, 1965

47. Comparison with Nautical Charts

Comparison was made with the following Nautical Charts:

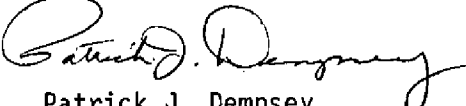
14847 - Aug. 1977, 1:20,000

14830 - Oct. 1975, 1:100,000

Items to be applied to Nautical Charts immediately - None

Items to be carried forward - None

Submitted by,



Patrick J. Dempsey

Approved and forwarded:



Frank A. Wright
Acting Chief, Coastal Mapping Section

Review Report
Shoreline Survey
TP-00950

61. General Statement

A final review was performed for this shoreline map and no discrepancies were encountered. This map is registered as Class III, since field edit was canceled March 5, 1980. For a complete analysis of TP-00950, refer to the Compilation Report bound with this Descriptive Report.

62. Comparison with Registered Topographic Survey - None

63. Comparison with Maps of Other Agencies

Refer to the Compilation Report paragraph 46, bound with this Descriptive Report.

64. Comparison with Contemporary Hydrographic Surveys - None

65. Comparison with Nautical Charts

Refer to the Compilation Report paragraph 47, bound with this Descriptive Report.

66. Adequacy of Results and Future Surveys

This map complies with the project instruction and meets National Map Accuracy Standards.

Submitted by,

James Schach

Final Reviewer

Approved and Forwarded:

George W. Bae
Chief, Photogrammetric Branch

Lawrence H. Fritz

Chief, Photogrammetry Division

October 7, 1982

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7603 (Toledo Harbor, Ohio)

CHART 14847 (LS 374)

Ann Arbor (RR)	Maumee Mooring Basin
Baltimore & Ohio (RR)	Maumee River
Bay View Park	Morin Point
Carland Beach (locality)	Niles Beach (locality)
Cedar Point	Norfolk & Western (RY)
Chesapeake & Ohio (RY)	North Cape
Conrail (RR)	North Maumee Bay
Detwiler Ditch	Ottawa River
Dry Tree Point	Otter Creek
Duck Creek	Point Place (locality)
Entrance Channel	
Gard Island	Riverside Park
Grand Trunk (RR)	Riverside Turning Basin
Grassy Island	Shantee Creek
Halfway Creek	Silver Creek
Harbor View	Swan Creek
Hooper Run	Toledo
Immergrun	Toledo Terminal (RR)
Indian Island	Willow Beach (locality)
	Woodtick Peninsula

Lake Erie

Maumee Bay

Approved by:

Charles E. Harrington

Charles E. Harrington
Chief Geographer, C3x5

Information of Dissemination of Project Material

CM-7603

Lake Erie, West End, Ohio

NATIONAL ARCHIVE/FEDERAL RECORD CENTER

- . Aerotriangulation Bridging Photographs
- . Computer Readout
- . Control Station Identification Cards
- . NOAA Form 76-41 (Descriptive Report Control Record)
- . NOAA Form 76-40 (Field)
- . Project Diagram
- . Plot Report
- . Field Inspection Charts LS 37, 360, and 370

Bureau Archives

- . Descriptive Report
- . Registered Maps

Reproduction Division

- . 8X Reduction Negative of Each Map

Office of Staff Geographer

- . Geographer Name Standard

* SVY TP-00950 *
* JOB CM-7603 *
* PRJ 833201 *
* DTM NA 1927 *
* RPT UNIT CMD. ROCKVULLE, MD. *
* STATE OHIO *
* LOCALITY WEST END LAKE ERIE *
* DATE 05/14/81 *
* PAGE 1 OF 10 *
* ORIGINATING ACTIVITY *
* COMPILATION *
* * * * *

* OBJECTS INSPECTED FROM SEAWARD *
* POSITIONS DETERMINED *
* AND/OR VERIFIED BY *
* FIELD AND OFFICE *
* ACTIVITIES *
* * * * *

* KEY FOR ENTRIES UNDER METHOD AND DATE OF LOCATION *
* FIELD (CONT, D) *
* * * * *

* OFFICE *
* 1. OFFICE IDENTIFIED AND LOCATED OBJECTS. *
* THE NUMBER AND DATE (INCLUDING MONTH, DAY *
* AND YEAR) OF THE PHOTOGRAPH USED TO *
* IDENTIFY AND LOCATE THE OBJECT ARE SHOWN. *
* EXAMPLE 75E(C)6042 *
* 8-12-77 *
* * * * *

* FIELD *
* 1. NEW POSITION DETERMINED OR VERIFIED *
* KEY TO SYMBOLS *
* 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* SHOW THE METHOD OF *
* LOCATION AND DATE OF FIELD WORK. *
* EXAMPLE F-2-6-L *
* 8-12-76 *
* * * * *

* 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. *
* * * * *

* NOTE: WHERE THE NAME OF AN AID INCLUDES THE IMMEDIATE GEOGRAPHIC HEADING UNDER WHICH IT IS LISTED, *
* A DASH (-) IS USED TO INDICATE THE GEOGRAPHIC HEADING WHICH IS PART OF THE OFFICIAL NAME. *
* * * * *

SVY

TP-00950

*

RPT UNIT

CMD. ROCKVULLE, MD.

*

PAGE

2

OF

10

JOB

CM-7603

*

NONFLOATING AIDS FOR CHARTS

*

STATE

OHIO

PRJ

833201

*

TO BE REVISED

*

LOCALITY

WEST END LAKE ERIE

*

ORIGINATING ACTIVITY

DTM

NA 1927

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DATE

05/14/81

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COMPILATION

THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

CHARTING

RECORD REASON FOR DELETION

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POSITION

CMD

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METHOD AND DATE

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NAME

PUT TRIANGULATION NAMES IN ()

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LATITUDE

DM

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ALTEK

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OF LOCATION

*

CHARTS

NAME

PUT TRIANGULATION NAMES IN ()

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LONGITUDE

DP

*

DGTZD

*

OFFICE

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FIELD

*

AFFECTED

MAUMEE BAY											
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RGE F	*	CULLEN PARK RANGE FRONT LIGHT	*	41 42 15.34	473.3	NOT	*	P-5	*	14846	*
LIGHT	*	PRIVATE AID	*	83 28 32.69	755.8	DGTZD	*	07/21/76	*	14847	*

RGE R	*	CULLEN PARK RANGE REAR LIGHT	*	41 42 16.04	494.9	NOT	*	P-5	*	14846	*
LIGHT	*	PRIVATE AID	*	83 28 34.67	801.6	DGTZD	*	07/21/76	*	14847	*

RGE F	*	MANHATTAN RANGE FRONT LIGHT	*	41 41 33.09	1020.9	NOT	*	P-5	*	14830	*
LIGHT	*		*	83 28 22.76	526.3	DGTZD	*	06/28/76	*	14846	*

RGE R	*	MANHATTAN RANGE REAR LIGHT	*	41 41 14.75	455.1	NOT	*	P-5	*	14830	*
LIGHT	*		*	83 29 01.44	33.3	DGTZD	*	06/28/76	*	14846	*

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* SVY	TP-00950	*	LANDMARKS FOR CHARTS	* RPT UNIT	CMD.	ROCKVILLE, MD.	*	PAGE	3 OF 10	*
* JOB	CM-7603	*	TO BE REVISED	* STATE	OHIO		*			*
* PRJ	833201	*		* LOCALITY	WEST END LAKE ERIE		*			*
* DTM	NA 1927	*		* DATE	05/14/81		*			*
* THE FOLLOWING OBJECTS HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *										
* CHARTING*	RECORD REASON FOR DELETION	*	DESCRIPTION	* POSITION	CMD	* METHOD AND DATE	*			*
* NAME	* PUT TRIANGULATION NAMES IN ()	*	* LATITUDE	DM	ALTEK*	OF LOCATION	*			* CHARTS *
			* LONGITUDE	DP	DGTZD*	OFFICE	*			* FIELD *AFFECTED*

* RADIO *	SILVER TOWER WITH LIGHT	*	41 44 21.63	667.3	NOT *	P-5	*			14846 *
* MAST *	MAIN POINT FIRE DEPT	*	83 28 36.79	850.2	DGTZD*	07/21/76	*			14847 *

* CHY *	POINT PLACE SCHOOL	*	41 43 14.39	444.0	NOT *	P-5	*			14846 *
	SQUARE BRICK CHIMNEY	*	83 28 36.28	838.6	DGTZD*	07/21/76	*			14847 *

* STACK *	TOLEDO EDISON COMPANY STACK	*	41 41 32.13	991.3	NOT *	P-5	*			14846 *
		*	83 26 17.71	409.5	DGTZD*	06/25/76	*			14847 *

* STACK *	TOLEDO EDISON COMPANY STACK	*	41 41 31.06	958.3	NOT *	P-5	*			14846 *
		*	83 26 18.42	426.0	DGTZD*	06/25/76	*			14847 *

* STACK *	TOLEDO EDISON COMPANY STACK	*	41 41 30.49	940.7	NOT *	P-5	*			14846 *
		*	83 26 19.06	440.8	DGTZD*	06/25/76	*			14847 *

* STACK *	TOLEDO EDISON COMPANY STACK	*	41 41 29.73	917.2	NOT *	P-5	*			14846 *
		*	83 26 19.92	460.7	DGTZD*	06/25/76	*			14847 *

* TANK *	RAILROAD YARD, WATER TANK	*	41 41 27.32	842.9	NOT *	P-5	*			14846 *
		*	83 27 31.47	727.8	DGTZD*	06/25/76	*			14847 *

* TOWER *	TRANSMISSION TOWER	*	41 41 17.83	550.1	NOT *	P-5	*			14846 *
		*	83 28 58.38	1350.1	DGTZD*	06/25/76	*			14847 *

* TANK *	SEWAGE DISPOSAL PLANT TANK	*	41 41 17.14	528.8	NOT *	P-5	*			14846 *
		*	83 28 49.93	1154.7	DGTZD*	06/25/76	*			14847 *

* TOWER *	TRANSMISSION TOWER	*	41 41 05.29	163.2	NOT *	P-5	*			14846 *
		*	83 29 02.62	60.6	DGTZD*	06/25/76	*			14847 *

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LISTING

* SVY	TP-00950	*		* RPT UNIT	CMD. ROCKVULLE, MD.	*		PAGE	5 OF 10	*
* JOB	CM-7603	*		* STATE	OHIO	*				*
* PRJ	833201	*		* LOCALITY	WEST END LAKE ERIE	*		* ORIGINATING	ACTIVITY*	*
* DTM	NA 1927	*		* DATE	05/14/81	*		* COMPILATION		*
* THE FOLLOWING OBJECTS HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *										
* CHARTING*	RECORD REASON FOR DELETION	*		* POSITION	CMD *			* METHOD AND DATE		*
* NAME *	PUT TRIANGULATION NAMES IN ()	*		* LATITUDE	DM			* OF LOCATION		*
		*		* LONGITUDE	DP			* DGTZD*	OFFICE *	FIELD *AFFECTED*

* STACK *	GULF OIL COMPANY STACK%MIDDLE<	*		41 40 29.01	895.0	NOT *		* P-5		* 14846 *
		*		83 29 05.69	131.6	DGTZD*		* 06/25/76		* 14847 *
		*						75BC5560		-----*
* FLARE *	GULF OIL COMPANY FLARE	*		41 40 28.12	867.5	NOT *		* P-5		* 14846 *
	S.W. OF TWO	*		83 29 16.39	379.1	DGTZD*		* 06/25/76		* 14847 *
		*						75BC5560		-----*
* STACK *	GULF OIL COMPANY STACK %SOUTH<	*		41 40 25.81	796.3	NOT *		* P-5		* 14846 *
		*		83 29 08.87	205.2	DGTZD*		* 06/25/76		* 14847 *
		*						75BC5560		-----*
* TV *	NEW TV TOWER	*		41 40 23.66	729.9	NOT *		* P-5		* 14830 *
* MAST *		*		83 25 31.56	730.0	DGTZD*		* 06/28/76		* -----*
		*						75BC5480		-----*
* STACK *	FRANCE STONE COMPANY STACK	*		41 40 19.70	607.8	NOT *		* P-5		* 14846 *
		*		83 29 17.18	397.4	DGTZD*		* 06/25/76		* 14847 *
		*						75BC5560		-----*
* TV *	WTOL-TV	*		41 40 21.94	676.9	NOT *		* P-5		* 14830 *
* MAST *		*		83 22 47.00	1087.2	DGTZD*		* 06/28/76		* -----*
		*						75BC5481		-----*
* NWS *	TOWER	*		41 41 35.40	1092.1	NOT *		* 75BC5558		* 14846 *
* SIGSTA *	NOT INSPECTED FROM SEAWARD	*		83 28 21.06	487.0	DGTZD*		* 05/04/81		* 14847 *
		*								-----*
* SPIRE *	IMMANUEL EVANGALICAL LUTHERAN	*		41 40 06.19	191.0	NOT *		* P-5		* 14846 *
	CHURCH SPIRE	*		83 30 43.88	1015.1	DGTZD*		* 06/28/76		* 14847 *
		*						75BC5560		-----*
* TV *	10 VERTICAL LIGHTS	*		41 40 04.77	147.2	NOT *		* P-5		* 14830 *
* MAST *		*		83 21 19.81	458.3	DGTZD*		* 06/28/76		* -----*
		*						75BC5482		-----*
* STACK *	RIVER SIDE HOSPITAL STACK	*		41 39 45.36	1399.4	NOT *		* P-5		* 14846 *
		*		83 30 55.03	1273.2	DGTZD*		* 06/28/76		* 14847 *
		*						75BC5560		-----*

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* SVY TP-00950 * * RPT UNIT CMD. ROCKVULLE, MD. * PAGE 6 OF 10 *
* JOB CM-7603 * * STATE OHIO *
* PRJ 833201 * * LOCALITY WEST END LAKE ERIE * ORIGINATING ACTIVITY *
* DTM NA 1927 * * DATE 05/14/81 * COMPILATION *
*
* THE FOLLOWING OBJECTS HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *
*
* * * * *
* CHARTING* RECORD REASON FOR DELETION * POSITION CMD * METHOD AND DATE * * CHARTS *
* NAME * PUT TRIANGULATION NAMES IN ( ) * LATITUDE DM ALTEK * OF LOCATION * FIELD *AFFECTED*
* * * * *
* * SALEM LUTHERAN CHURCH SPIRE * 41 39 36.56 1127.9 NOT * * P-5 * 14846 *
* SPIRE * * 83 31 30.83 713.3 DGTZD * * 06/23/76 * 14847 *
* * * * *
* * MAGYAR REFORM A RUS TEPLON * 41 39 35.04 1081.0 NOT * * P-5 * 14846 *
* SPIRE * * 83 29 57.84 1338.2 DGTZD * * 06/23/76 * 14847 *
* * * * *
* * ST. STEPHENS CATHOLIC CHURCH * 41 39 33.36 1029.2 NOT * * P-5 * 14846 *
* CUPOLA * CUPOLAS * 83 30 04.12 95.3 DGTZD * * 06/23/76 * 14847 *
* * * * *
* * ST. STEPHENS CATHOLIC CHURCH * 41 39 33.19 1024.0 NOT * * P-5 * 14846 *
* CUPOLA * CUPOLAS * 83 30 03.57 82.6 DGTZD * * 06/23/76 * 14847 *
* * * * *
* * WGET-TV * 41 39 26.42 815.1 NOT * * P-5 * 14830 *
* MAST * * 83 25 52.89 1223.8 DGTZD * * 06/28/76 * *
* * * * *
* * TOLEDO EDISON COMPANY STACK * 41 39 18.14 559.6 NOT * * P-5 * 14846 *
* STACK * * 83 30 57.54 1331.4 DGTZD * * 06/25/76 * 14847 *
* * * * *
* * TOLEDO EDISON COMPANY STACK * 41 39 17.82 549.8 NOT * * P-5 * 14846 *
* STACK * * 83 30 55.98 1295.3 DGTZD * * 06/25/76 * 14847 *
* * * * *
* * TOLEDO EDISON COMPANY STACK * 41 39 16.83 519.2 NOT * * P-5 * 14846 *
* STACK * * 83 30 55.58 1286.1 DGTZD * * 06/25/76 * 14847 *
* * * * *
* * TOLEDO EDISON COMPANY STACK * 41 39 16.28 502.3 NOT * * P-5 * 14846 *
* STACK * * 83 30 56.70 1312.0 DGTZD * * 06/25/76 * 14847 *
* * * * *
* * TOLEDO EDISON COMPANY * 41 39 15.58 480.7 NOT * * P-5 * 14846 *
* TOWER * TRANSMISSION TOWER * 83 31 16.82 389.2 DGTZD * * 06/28/76 * 14847 *
* * * * *

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* SVY	TP-00950	* LANDMARKS FOR CHARTS	* RPT UNIT	CMD. ROCKVULLE, MD.	* PAGE 9 OF 10
* JOB	CN-7603	* TO BE CHARTED	* STATE	OHIO	
* PRJ	833201		* LOCALITY	WEST END LAKE ERIE	* ORIGINATING ACTIVITY*
* DTM	NA 1927		* DATE	05/14/81	* COMPILATION *

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

* * *	* * *	DESCRIPTION	* * *	POSITION	CMD	METHOD AND DATE	* * *
CHARTING	RECORD REASON FOR DELETION	LATITUDE	DM	ALTEK	OF LOCATION	* CHARTS *	
* NAME *	PUT TRIANGULATION NAMES IN ()	LONGITUDE	DP	DGTZD	OFFICE	* FIELD * * AFFECTED *	

* * *	* MICRO *	* ATLANTIC RICHFIELD COMPANY *	* 41 40 43.49	1341.7	NOT *	* P-5	* 14846 *
* * *	TOWER *	MICROWAVE TOWER	* 83 28 21.56	498.7	DG17D *	* 06/25/76	* 14847 *

	* MICRO *	TOWER	*	41	40	13.78	425.1	NOT *	P-5	*	14846	*
	* TOWER *		*	83	29	13.47	80.3	D6T7D*	*	06/25/76	*	14847 *

* * *	* ANTHONY WAYNE BRIDGE TR., WEST *	* 41 38 28.19	869.7	NOT *	* P-5	* 14846 *
* TOWER *			139.3	06170*	* 06/28/76 *	* 14847 *

* *	* ANTHONY WAYNE BRIDGE TR., EAST *	* 41 38 27.22	* 839.8	* NOT *	* P-5	* 14846 *
* TOWER *	* *	* 83 31 55.75	* 1200.3	* 06170 *	* 06/28/76 *	* 14847 *

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RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

[illegible]