NOAA FORM 76-35 (3-76)

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

DESCRIPTIVE REPORT

Map No.	Edition No.
TP-00869	1
Job No.	
CM-7811	
Map Classification	
FINAL, FIELD EDITED	MAP
Type of Survey	
SHORELINE	
LOCALITY	ľ
State	
ILLINOIS - INDIANA	
General Locality	
CHICAGO LAKE FRONT	
Locality	
MONTROSE HARBOR	
19 78 TO 19	81
	
-	
REGISTRY IN AR	CHIVES
DATE	

*U. S. GOVERNMENT PRINTING OFFICE:1976-669-248

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP-00869
(3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		
	A ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS Final
	REVISED	Joв х ън СМ-7811
PHOTOGRAMMETRIC OFFICE		
Coastal Mapping Division	TYPE OF SURVEY	JOB PH
AMC, Norfolk, VA	ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE	☐ RESURVEY	SURVEY DATES:
Man Ethadian I'CDD	REVISED	19TO 19
Max Ethridge, LCDR I INSTRUCTIONS DATED	<u></u>	
1. OFFICE	2.	FIELD
Aerotriangulation January 24, 1980	Horizontal Contro	ol June 12, 1978
Compilation May 27, 1980	Field Edit	June 26, 1981
	:	
II. DATUMS		
1. HORIZONTAL: X 1927 NORTH AMERICAN	OTHER (Specify)	
TOTAL CONTRACTOR OF THE PROPERTY OF THE PROPER	OTHER (O	
MEAN HIGH-WATER	OTHER (Specify)	. t . t
2. VERTICAL: MEAN LOW-WATER	1	it Lakes Datum, (1955)
MEAN SEA LEVEL	Lake Michigan Low	water Datum
3. MAP PROJECTION	4.	GRID(S)
	STATE	ZONE
Transverse Mercator	Illinois	East -
5. SCALE	STATE	ZONE
1:10,000	<u> </u>	<u> </u>
OPERATIONS	NAME	DATE
I. AEROTRIANGULATION BY	R. Kelly	April 1980
METHOD: Analytic LANDMARKS AND AIDS BY	R. Kelly	April 1980
2. CONTROL AND BRIDGE POINTS PLOTTED BY	R. Cauthorne	April 1980
METHOD: Calcomp CHECKED BY	R. Cauthorne	April 1980
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	F. Mauldin	Aug. 1980
COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY	L. Neterer, Jr.	Jan. 1981
SCALE: 1:10,000 CHECKED BY	NA NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	F. Mauldin	Sept. 1980
CHECKED BY	L. Neterer, Jr.	Jan. 1981
METHOD: Smooth drafted / CONTOURS BY	NA	
CHECKED BY	· · · · · · · · · · · · · · · · · · ·	C+ 1000
scale: 1:10,000 HYDRO SUPPORT DATA BY	F. Mauldin L. Neterer, Jr.	Sept. 1980 Jan. 1981
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	L. O. Neterer, Jr.	
BY	P. Evans, Jr.	Nov. 1981
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	C. Blood	May 1982
7. COMPILATION SECTION REVIEW BY	C. Blood	May 1982
8. FINAL REVIEW BY	J. Hancock	Aug. 1982
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	J. Hancock	Oct. 1982
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY 11. MAP REGISTERED - COASTAL SURVEY SECTION BY	R. Kelly (Signed)	Apr. 1983
NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES	<u> </u>	0.7972-769382/582 REG.#6
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	07/1972-769382/582 REG.#6

10AA FORM /6-36B 3-72)			TP-0086		TIONAL OCE.			RIC ADMINISTRATION NAL OCEAN SURVEY
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4. CONTEMPORARY	HYDROGRAPHIC SI	URVEYS (List	only those su	rveys that	are sources	for photogr	emmetric surv	ey information.)
SURVEY NUMBER	DATE(S)	SURVEY CO	PY USED	SURVEY	NUMBER	DATE(S)	\$U	IRVEY COPY USED
. FINAL JUNCTION	 S				<del></del>			<del></del>
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	n Report, Ite		<u> </u>					·

NOAA FORM 76-360 (3-72) ,	TP-00869 THISTORY OF FIELD		NIC AND ATMOSPHERI	ENT OF COMMERCE C ADMINISTRATION AL OCEAN SURVEY
I. XX FIELD INSPI	ECTION OPERATION (Hor. Control) FIELD	EDIT OPERATION	•	
	OPERATION		NAME	DATE
1. CHIEF OF FIEL	D PARTY	L. Davis		July 1979
<del></del>	RECOVERED BY	L. Davis	<del></del>	July 1979
2. HORIZONTAL C		None		
	PRE-MARKED OR IDENTIFIED BY	L. Davis	<del></del>	July 1979
	RECOVERED BY	None		
3. VERTICAL CON	ITROL ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED (Triangulation Stations) BY	None	<del></del>	
<ol> <li>LANDMARKS AP AIDS TO NAVIG</li> </ol>		None		<del></del>
7103 10 1710	IDENTIFIED BY	None	<del></del>	<del></del>
	TYPE OF INVESTIGATION	ļ		-
<ol> <li>GEOGRAPHIC N INVESTIGATION</li> </ol>				ļ
	▼ NO INVESTIGATION	d.		
	<del></del>	Name		<del></del>
6. PHOTO INSPEC		None NA		<del>                                     </del>
7. BOUNDARIES A II. SOURCE DATA		IVA		<del></del>
	CONTROL IDENTIFIED	2. VERTICAL CO	NTROL IDENTIFIED	
		None		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DE	SIGNATION
78Y(P)4303 (1:60,000)	Foster, 1977			
	IRS (Clarification of details)	<u> </u>	L , _ , _ ,	
	NO AIDS TO NAVIGATION IDENTIFIED			
	lone			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	ОВЈЕСТ	NAME
	-		`	
£ processing		4 8000000000000000000000000000000000000	ID LIMITS: CT 0-0-0	NY NY
7. SUPPLEMENTA	NAMES: REPORT NONE	6. BOUNDARY AN	ID LIMITS: REPO	RT XX NONE
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1-form	76-53 (CSI)			

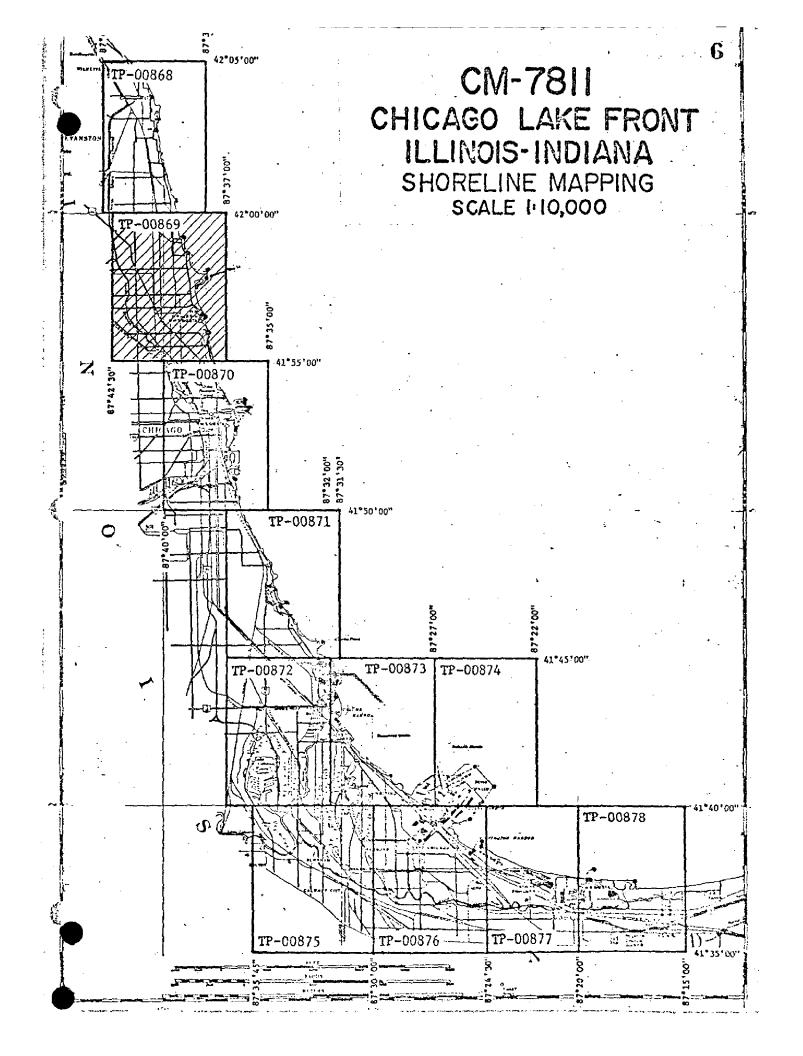
NOAA FORM 76-36C (3-72)	TP-00869 History of Field		U. S. NIG AND AT	DEPARTMENT OF COMMER MOSPHERIC ADMINISTRATI NATIONAL OCEAN SURV
I. TIELD INSPECTION O	PERATION XX FIEL	D EDIT OPERATION		
	OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY	•	D military		T3 1001
	RECOVERED BY	R. Tibbetts		July 1981 July 1981
2. HORIZONTAL CONTROL	ESTABLISHED BY	None	11	3dly 1701
A HONIZORINE CONTINOE	PRE-MARKED OR IDENTIFIED BY	None		<del></del>
	RECOVERED BY	None		
3. VERTICAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	None	• .	
<del></del>	RECOVERED (Triangulation Stations) BY	C. Middleto	n	July 1981
4. LANDMARKS AND	LOCATED (Field Methods) BY	C. Middleto	n	July 1981
AIDS TO NAVIGATION	IDENTIFIED BY	None		
<del></del>	TYPE OF INVESTIGATION			
5. GEOGRAPHIC NAMES	COMPLETE BY	}		
INVESTIGATION	XX SPECIFIC NAMES ONLY			
	NO INVESTIGATION	C. Middleto	n	July 1981
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	C. Middleto	<u>n</u>	July 1981
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA		
II. SOURCE DATA		<del></del>		
1. HORIZONTAL CONTROL	IDENTIFIED	2. VERTICAL COL		ITIFIED
NA NA	<del></del>	NA NA	<del></del>	<del> </del>
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	ST	ATION DESIGNATION
	-			
3. PHOTO NUMBERS (Clarifi	cation of details) 226, 8227, 8228, 8229, and	0017		<del></del>
		8217.		
4. LANDMARKS AND AIDS T	cale ratios)			<del></del>
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None PHOTO NUMBER		<del>                                     </del>		
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	<del></del>	OBJECT NAME
5. GEOGRAPHIC NAMES:	REPORT X NONE	6. BOUNDARY AN	D LIMITS:	REPORT X NONE
7. SUPPLEMENTAL MAPS A	<del></del>			
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NOAA FORM 76-36D (3-72)

TP-00869

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

		REC	CORD OF SURVE	YUSE		
I. MANUSCI	RIPT COPIES					
	CO	MPILATION STA	GES		DATE MANUSCRI	PT FORWARDED
	ATA COMPILED	DATE	RE	MARKS	MARINE CHARTS	HYDRO SUPPORT
-	tion complete field edit.	J <i>a</i> n. 1981		manuscripts eded)	None	None
	dit Applied tion Complete	May 1982	Class I Ma	nuscript	None	None
Final R	eview	Aug. 1982	Final Map		Jan 7, 198 <b>3</b>	None
II. LANDM	ARKS AND AIDS TO NAVIGA	TION				
1. REPO	RTS TO MARINE CHART DI	VISION, NAUTIC	AL DATA BRANCH			
NUMBER (nages	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	,	RE	MARKS	
ī		Jan 7, 19	8 <b>3</b> Aids to b	e charted		
3		U	Landmarks	to be chart	ed	
1		u	Landmarks	to be delet	e <b>d</b>	
			,	<del>_</del>		
				<del></del>		
2. 🗀 F	REPORT TO MARINE CHART	DIVISION, COA	ST PILOT BRANCH.	DATE FORWARDE	:D:	
	REPORT TO AERONAUTICA AL RECORDS CENTER DAT		ON, AERONAUTICAL	DATA SECTION.	DATE FORWARDED:	
1. [X] 2. [X] 3. [X]	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTI SOURCE DATA (except for G ACCOUNT FOR EXCEPTION	DUPLICA FICATION CARI		S RECEIBMITTED	A FORM 76-36C.	(76 <b>-</b> 40 <u>)</u>
4. 🗀	DATA TO FEDERAL RECO	ROS CENTER. D	ATE FORWARDED:	SEPTEMBE	ER. 1983	
IV. SURVE	Y EDITIONS (This section s	hail be completed		p edition is registere		
SECOND	TP -	(2) PH			TYPE OF SURVEY	SURVEY
EDITION	DATE OF PHOTOGRAPH		FIELD EDIT		MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUM	BER		TYPE OF SURVEY	
THIRD	тр	(3) PH			EVISED 🔲 RE	BURVEY
EDITION	DATE OF PHOTOGRAP	TY DATE OF	FIELD EDIT		MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUM	BER		TYPE OF SURVEY	
FOURTH		. (4) PH				ÚRVÉY
EDITION	DATE OF PHOTOGRAPH	DATE OF	FIELD EDIT		MAP CLASS	



#### SUMMARY TO ACCOMPANY

#### DESCRIPTIVE REPORT

#### TP-00869

This 1:10,000 scale final shoreline map is one of eleven maps, TP-00868 thru TP-00878, that comprise project CM-7811, Chicago, Lake Front; Illinois-Indiana.

The purpose of this project was to provide current charting information for nautical chart maintenance. No hydrographic operations were concurrent with this mapping project.

This final map portrays a portion of the Illinois shoreline along the west side of Lake Michigan from Lat. 41°55.0' to Lat. 42°00.0'. Three small-craft basins, Montrose, Belmont, and Diversey Harbors, are featured along the lakefront area. In addition to the lake shoreline, this map also includes the North Branch inner waterway as it extends from the Chicago River.

Two flight strips of 1:60,000 scale panchromatic photography were obtained for aerotriangulation May 10, 1978, using the RC-10 "Y" camera. Four flight strips of 1:30,000 scale panchromatic photography were obtained for compilation June 5, 1978, using the RC-8 "S" camera. This photography provided adequate coverage for the project.

Field work prior to compilation was accomplished in August 1979; this involved the establishment of horizontal control by field photo identification methods specified to meet aerotriangulation requirements.

Analytic aerotriangulation was adequately provided by the Washington Science Center in April 1980.

Compilation was performed at the Coastal Mapping Section, Atlantic Marine Center in January 1981. Copies of the Class III map were submitted for field edit.

Field edit was performed in July 1981 by assigned personnel from the Field Surveys Branch, AMC. Field data acquired during this edit was returned to the original compilation office and applied in May 1982.

Final review was performed at the Atlantic Marine Center in August 1982. At that time, a final Chart Maintenance Print was prepared and submitted for the Marine Chart Division.

This Descriptive Report contains all pertinent information used to compile this Final Map. The original base manuscript and all related data was forwarded to the Washington Science Center for final registration.

#### FIELD INSPECTION

#### TP-00869

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.

43.3

CM-7811

Chicago Lake Front Illinois-Indiana April 18, 1980

#### 21. Area Covered

This report covers 11 1:10,000 sheets, TP-00868 thru TP-00878 of Chicato Lake Front Illinois-Indiana.

#### 22. Method

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Two strips of 1:60,000 scale photography were bridged by analytic aerotriangulation methods and adjusted to ground on the Illinois State Plane Coordinate System, Illinois East Zone. These 2 strips were bridged to established compilation points to control 4 strips of 1:30,000 compilation photography. Aids and landmarks were located in bridging of the 1:60,000 scale photography. Ratio values were determined of the 1:30,000 scale photography and one each black-andwhite print film were ordered for compilation and field edit. Ruling of manuscript and plotting of points were done on the CALCOMP and forwarded to AMC.

### 23. Adequacy of Control

The horizontal control provided was adequate except for Foster, 1977 Substitute Station B, which was the intersection of two paved walkways.

Due to the irregular shape of the intersection an accurate instrument reading was impossible. All other control held within the accuracy required by National Standards of Maps at 1:10,000 scale.

### 24. Supplemental Data

Local shoreline and U.S. Geological Survey quadrangles were used to provide vertical elevations for vertical adjustments of bridges.

#### 25. Photography

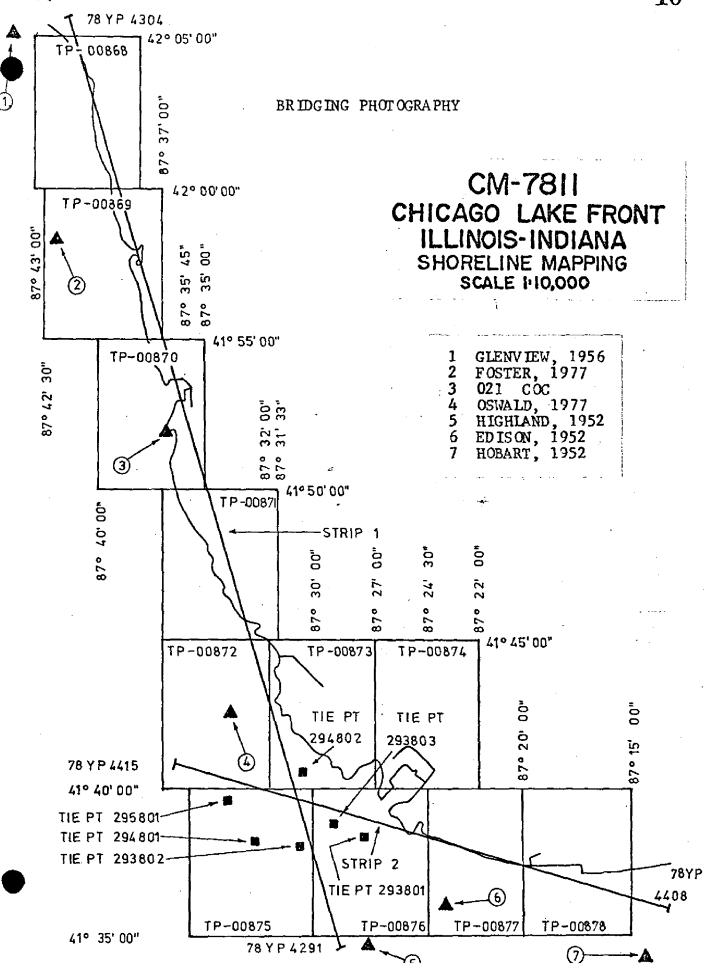
RC-10 "Y" photography was used for the 2 bridging strips. RC-8 "S" Photography was used for the 4 compilation strips. Both RC-10 "Y" and RC-8 "S" photography were adequate as to coverage and definition. Vacuum failure was noticed at the end lap of the RC-8 "S" photography, but this should not effect the compilation.

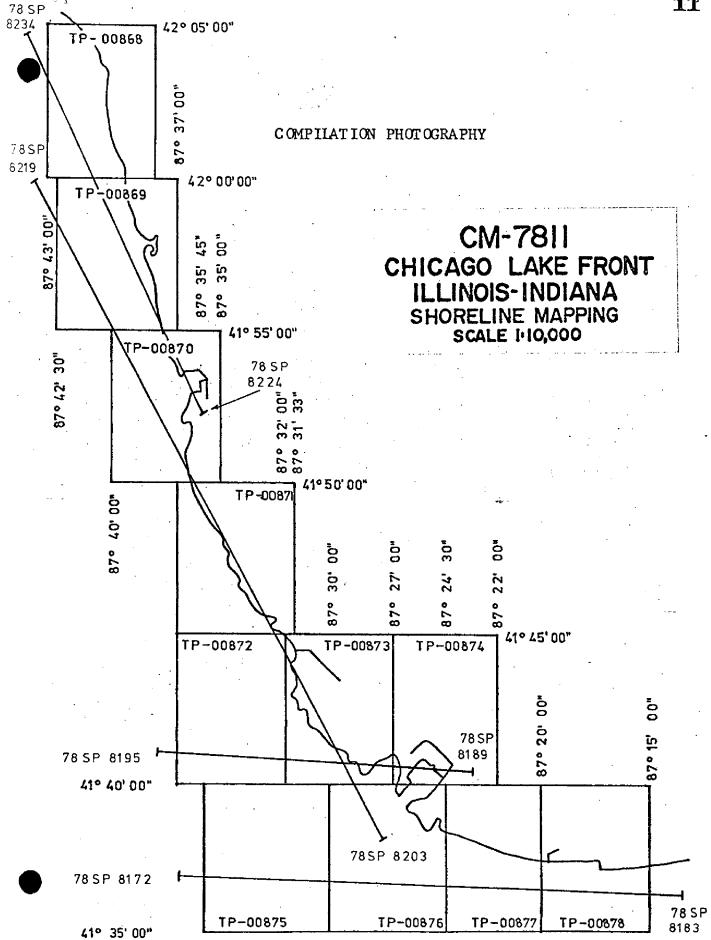
Submitted by, Robert B. Kelly

Approved and Forwarded: Don O. Norman

Don O. Norman

Chief, Aerotriangulation Section





## CLOUSURES TO CONTROL

# STRIP 1

3 04 1 0 1 3 04 1 0 2	GLENVIEW, 1956	SUB PT A	4.4 3.5	-6.6 -0.7
301101 301102	FOSTER, 1977	SUB PT A	-0.3 -0.5	0.8 14.2
2 9 8 1 0 1 2 9 8 1 0 2	021 COC	SUB PT A	1.4	-1.8 -1.3
415101 415102	OSWALD, 1977	SUB PT A	-1.1 0.2	3.1 0.8
292101 292102	HIGHIAND, 1952	SUB PT A	-0.0 -1.2	-0.2 -4.9

#### STRIP 2

415102	OSWALD, 1977	SUB PT B	0.9	0.2
295801	TIE POINT		2.5	-0.1
294801	· #1		-1.5	-0.7
294802	, TI - 17		0.3	2.8
293802	11 1E		-0.2	-1.1
2 93 803	11 11		-0.9	-0.8
293801	F) II		3.9	1.5
411101	EDISON, 1972	SUB PT A	-2.4	2.5
411102	11 11	" " B	-1.9	-3.3
409101	HOBART, 1972	SUB PT A	-1.7	0.9
409102	, ii	" " B	-5.6,	0.1

•			)		) .
NOAA FORM 76-41 (6-75)		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO. TP-00869	JOB NO. CM-781		GEODETIC DATUM NA 1927	Coastal Mapping	ng Division
	AC HORIOS	AEROTRI-	COORDINATES IN FEET	<b>⊣</b> ∵	
STATION NAME	INFORMATION (Index)	ANGULATION POINT NUMBER	STATE TITLED ZONE East	φ LATITUDE λ LONGITUDE	REMARKS
	G-16005		**	\$ 41057'48.473"	
024, COC, 1977	-346	:	y:	λ 87037'53.245"	
\	G-16005		χ=	\$ 41056'33.231"-	
019 coc, 1977	-343		ĥ=	λ 87037'59.658"	
CHICAGO NORTH SHORE CHURCH	G-16005		×=	\$ 41058'39.503"´	
977	-28		h=	λ 87039'45.233"	
CHICAGO FANNING TANK, 1977	G-16005		*χ	φ 41058'35.857"	
	-27		η= h	λ 87°39'33.172"	
MARV CHITRCH /	G-16005		χ=	φ 41°57'30.969"	
	-37		h=	λ 87039118.075"	
PAIII.'S CHURCH	G-16005		χ=	\$ 41°55'29.434"	
	- 70		zĥ	λ 87038145.958"	
O, DEL VALLE CHURCH -	G-16005		χ=	\$ 41°56'17.320"	
SPIRE, 1977	-57		=h	λ 87039122.556"~	
ALPHONSUS ~	9-16005		=χ	φ 41°56'08,964"<	
CHURCH SPIRE, 1977	95-		=ħ	λ 87039'50.238"	
			±χ.	ф	
			<i>ή</i> =	γ	
			=X	Ф	
			<i>-h</i>	۲	
COMPUTED BY Rauck, Jr.		DATE 5/12/80	COMPUTATION CHECKED BY F. Margiotta		DATE 5/13/80
LISTED BY A. Rauck, Jr.		5/2/80	LISTING CHECKED BY F. Margiotta		DATE 5/12/80
HAND PLOTTING BY		5/20/80	HAND PLOTTING CHECKED BY J. Roderick		DATE 5/20/80
		SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE.	1.04.3

Page 1 of 3

1 U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION 8-6-80 8-6-80 8-6-80 Coastal Mapping Division AMC, Norfolk, VA REMARKS Ö DATE 5-12 ****** 5-20 DATE λ 87041'23.224" x 87042'26.104"-41056'21.273" 41055117.283" 87042104.949" 87042105.476" λ LONGITUDE 41057'43.778" 41056'25.445" 87041'42.249" 41055138.885" 87041'03.864" 87037'59.707" 41058131.316" 41059151.324" 87040'36.606" 41056132,90912 LATITUDE & 8-7-80 | I. Roderick / I. Perkinson ... supersedes noar form 16-41, 2-71 Edition which is obsolete. Perkinson I. Perkinson DESCRIPTIVE REPORT CONTROL RECORD ↔ 0 Φ-↔ ~< 0 LISTING CHECKED BY TAING THAND PLOTTING CHECKED BY 5-17 & 8-6-80 MPUTATION CHECKED BY A COORDINATES IN FEET STATE GEODETIC DATUM NA 1927 zone East ¥ = 2 ۳ ž 7 * ž ۳ 3 £ £ ¥ =ĥ 4 ۱ 7 = 2 ž Z 8-5-802 & DATE 5-20 AEROTRI-ANGULATION POINT NUMBER 301100 55 SOURCE OF INFORMATION (Index) CM-7811 G-16005 -310 G-16005 TSN-344 G-16005 G-16005 TSN-39 C-16005 G-16005 G-16005 -08 G-16005 -68 -67 -48 Mauldin Mauldin Mauldin 1 1 POLICE RADIO TOWER, 1977 1 CATHOLIC CHICAGO, COTTER COMPANY / CHICAGO, ST. SYLVESTER CHURCH SPIRE, 1977 CHICAGO, 19TH DISTRICT OF MERCY Rauck, Jr./F. Jr./F 1977 ٠ تا CHICAGO, CONCORDIA CHURCH SPIRE, 1977 STATION NAME CHURCH SPIRE, 1977 1977 HAND PLOTTING BY I. Williams/ ල් SPIRE, Rauck, CHICAGO, LADY TPT, FOSTER, 1977 CHICAGO, A. NOAA FORM 76-41 (6-75) TP-00869 TANK, 1977 COMPUTED BY ၁၀၁ CHURCH, LISTED BY MAP NO 019

Page 2 of 3

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SOURCE OF ANGULATION CHOORNATION CHOORNATION CHOORNATION CHOOS CONF CHOOS C	Coastal Mapping Division
RY       G-16005       X=         TSN-26       y=         TSN-29       y=         W       G-16005       X=         TSN-69       y=         W       G-16005       X=         TSN-69       y=         Y       G-16005       X=         TSN-24       y=         TSN-24       y=         TSN-30       y=         TCT       G-16005       x=         TSN-36       y=         TSN-36       y=         TSN-46       y=         TSN-46       y=         TSN-46       y=         X=       X=	GEOGRAPHIC PC
HATS G-16005 TSN-29 W G-16005 TSN-69 TSN-69 TSN-47 TSN-47 G-16005 TSN-30 TSN-30 TSN-36 TSN-36 TSN-36 TSN-36 TSN-36 TSN-36 TSN-46	\$ 41°58'57.430"
HATS G-16005 TSN-29  W G-16005 TSN-69  W G-16005 TSN-47 TSN-47 TSN-24 TSN-24 TSN-30 TSN-36 TSN-36 TSN-36 TSN-36 TSN-46 TSN-46	λ 87040'19.055"~
HATS G-16005  W G-16005  TSN-69  W G-16005  TSN-47  G-16005  TSN-24  TSN-24  TSN-30  TSN-36  TCT G-16005  TSN-36  TSN-46	φ 41°58'34.520"~
HATS G-16005 TSN-69  W G-16005 TSN-47 TSN-47 G-16005 TSN-24 TSN-30 TSN-30 TSN-36 TSN-36 TSN-46 TSN-46	λ 87040'18.727" /
TSN-69  W G-16005  TSN-47  G-16005  TSN-24  TSN-24  TSN-30  TSN-30  TSN-36  TSN-36  TSN-46  TCT G-16005  TSN-46	¢ 41°55°24.641"
ANDREW G-16005 1977 TSN-47 HILARY G-16005 1977 TSN-24 4ATTHIAS G-16005 1977 TSN-36 1977 TSN-36 1977 TSN-46 TSN-46	λ 87 ⁰ 39'46.904" ^{&lt;}
1977 TSN-47  11LARY G-16005  1977 TSN-24  4ATTHIAS G-16005  1977 TSN-30  4 ANGELS G-16005  1977 TSN-36  1977 TSN-46  SENEDICT G-16005  1977 TSN-46	¢ 41°56'48.460"
ST. HILARY G-16005 ST. MATTHIAS G-16005 ST. MATTHIAS G-16005 ST. MATTHIAS G-16005 TSN-30 QUEEN ANGELS G-16005 ST. BENEDICT G-16005 ST. BENEDICT G-16005 TSN-46	λ 87040'17,185" <
ST. MATTHIAS G-16005 ST. MATTHIAS G-16005 SUBEN ANGELS G-16005 ST. BENEDICT G-16005	\$ 41°59'00.543"
ST. MATTHIAS G-16005  SIRE, 1977  QUEEN ANGELS G-16005  ST. BENEDICT G-16005  ST. BENEDICT G-16005  TSN-46	λ 87041'55.951"
QUEEN ANGELS — G-16005 QUEEN ANGELS — G-16005 ST. BENEDICT — G-16005 TRE, 1977 TSN-46	¢ 41°58′14.181″
QUEEN ANGELS / G-16005 SIRE, 1977 ST. BENEDICT / G-16005 TSN-46 TSN-46	λ 87 ⁰ 41'15.029"~
ST. BENEDICT	¢ 41°57'47.826"
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Rauck, Jr. 5/2/80	
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#### COMPILATION REPORT

#### TP-00869

#### 31. DELINEATION

Delineation was by instrument methods using the Wild B-8 stereoplotter and by office interpretation of the 1:30,000 scale panchromatic photographs. The compilation photography was adequate. Photographs ratioed at 3.02 times the contact photo size were processed for field edit.

A "dog ear" projection extension of 30 seconds in longitude was added to the northwest corner of the manuscript in order to provide complete delineation of the North Shore Channel.

#### 32. CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report, dated April 18, 1980.

#### 33. SUPPLEMENTAL DATA

None

#### 34. CONTOURS AND DRAINAGE

Contours are not applicable. Drainage was delineated by the Wild B-8 instrument from office interpretation of the photographs.

#### 35. SHORELINE AND ALONGSHORE DETAILS

Refer to form 76-36B, Item 2 for shoreline delineation.

Alongshore details were delineated by the Wild B-8 stereoplotter from office interpretation of the photographs.

#### 36. OFFSHORE DETAILS

No unusual problems.

#### 37. LANDMARKS AND AIDS

Preliminary 76-40 forms consisting of 1 page of Navigational Aids and 3 pages of Landmarks for Charts were prepared for field edit.

#### 38. CONTROL FOR FUTURE SURVEYS

None

#### TP-00869

#### 39. JUNCTIONS

Refer to the Data Record Form 76-36B, Item 5.

#### 40. HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

#### 46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. quadrangle: Chicago Loop, Illinois, scale 1:24,000, dated 1963, photorevised 1972.

#### 47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with N.O.S. charts No. 14926, scale 1:10,000, dated July 24, 1976, 3rd edition, and 14928, scale 1:15,000, dated September 9, 1978, 16th edition, and 14927, dated May 5, 1979, 17th edition, scale 1:60,000.

#### ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

#### ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Fay T. Mauldin Cartographer

Date: September 29, 1980

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

#### ADDENDUM TO THE COMPILATION REPORT

TP-00869

#### FIELD EDIT

The numerous mooring piles field identified along the end of the finger piers in Belmont Harbor were not compiled due to congestion.

#### FIELD EDIT REPORT TP=00869 CM=7811

#### 51. Methods

The Field Edit was performed as prescribed by Project Instructions dated June 26, 1981, and by the Photogrammetry Instructions of the National Ocean Survey Operations Manual. The Field Edit was conducted from a skiff, by truck, and on foot.

Field Edit annotations will be found on both the photographs and on the Master Field Edit Print. Annotations are cross-referenced where necessary.

## 52. Adequacy of Compilation

Adequate pending application of Field Edit.

#### 54. Recommendations

Several Submerged Cable Crossings along the North Shore Channel could be neither verified nor disproved during the Field Edit, therefore it is recommended they be retained as presently charted.

#### 57. Landmarks and Aids

Ten Landmarks previously charted have been recommended for deletion. No new Landmarks were identified. The remaining charted Landmarks were verified.

Six previously charted Aids were visually verified and four other lights (Diversey and Belmont Harbors Range Lights) were located by the Traverse Method. The appropriate forms 76-40 and Traverse data are herein submitted.

#### 58. Horizontal Control

Twenty-nine Horizontal Control Stations were recovered during the Field Edit of this sheet. Appropriate forms 75-82A are attached.

#### 59. Geographic Names

Two geographic names were questioned on this sheet. The park superintendent at Lincoln Park and never heard of the name "Simmons Island" but verified the name "South Lagoon". A City of Chicago police office who has been patrolling the area for ten years also verified the name and location of "South Lagoon" and stated that the name "Simmons Island" is correct but is not used. Neither source wished to have his name included in this report.

Approved and forwarded

Robert S. Tibbetts

Chief, Photo Party 62

Submitted by,

Clifton S. Middleton Jr. Surveying Technician

#### REVIEW REPORT TP-00869

#### SHORELINE

#### 61. GENERAL STATEMENT:

Refer to the Summary included in this Descriptive Report.

#### COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable

#### COMAPRISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. quadrangle Chicago Loop, Illinois, 1:24,000 scale, dated 1963, photorevised 1972. No significant differences were noted.

#### COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic survey was conducted in the area pertaining to this final map.

#### 65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following N.O.S. charts: 14926,03rdfedition, 1:10,000 scale, dated July 24, 1976 14928, 16th edition, 1:15,000 scale, dated September 9, 1978 14927, 17th edition, 1:60,000 scale, dated May 5, 1979

The field editor was specifically instructed to determine the nautical value of the numerous charted landmarks concurrent with this The basic seaward inspection along with a lógical evaluation was conducted in order to minimize the number of ineffective "landmarks" . and to portray only those that serve as prominent features beneficial to mariners. Consequently, ten charted landmarks were recommended for deletion,

#### 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:

Jery J. Herrenh

Final Reviewer

## REVIEW REPORT TP-00869

#### SHORELINE

Approved for forwarding:

Billy H. Barnes

Chief, Photogrammetric Branch

Approved

Chief, Photogrammetric Branch, Rockville

Chief, Photogrammetry Division

#### GEOGRAPHIC NAMES

#### FINAL NAME SHEET

CM-7811 (Chicago, Lakefront, Illinois-Indiana)

TP-00869

Belmont Harbor

Chicago

Chicago and North Western (RR)

Diversey Harbor

Lake Michigan

Lincoln Park

Montrose Harbor

North Branch Chicago River

North Pond

North Shore Channel

Simmons Island

South Lagoon

South Pond

Approved by:

Charles E. Harrington Chief Geographer, OA/C3x5

## CM-7811 CHICAGO LAKE FRONT, ILL. & IND.

#### MATERIAL ON FILE

#### NATIONAL ARCHIVES/FEDERAL RECORDS CENTER

BOX (CONTENTS)

Control Station Identification Cards
Field Identified Horizontal Control Photographs
Field Edit Photographs
Bridging Photographs
Field Edit Copies (Discrepancy Prints)

Project Completion Report

BUREAU ARCHIVES

Registered Maps
Descriptive Reports

REPRODUCTION DIVISION

8x Reduction Negative of Each Map

OFFICE OF STAFF GEOGRAPHER

Geographic Names Standards

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Page 1 of 5

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SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

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					742	935	6/5/78	6/30/81	

	RESPONSIBLE PERSONNEL	PERSONNEL	
TYPE OF ACTION	NAME		ORIGINATOR
			PHOTO FIELD PARTY HYDROGRAPHIC PARTY
OBJECTS INSPECTED FROM SEAWARD	R. Tibberts		GEODETIC PARTY OTHER (Specify)
	C. Middleton		FIELD ACTIVITY REPRESENTATIVE
FOSTI IONS DETERMINED AND/OR VERIFIED	P. Evans		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES			REVIEWER  QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	WETHOD AND DATE OF LOCATION' ic Instructions No. 64,	
OFFICE IDENTIFIED AND LOCATED OBJECTS	TED OBJECTS	' 55	field positions** require
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	(including month, ograph used to )ject.	entry of method of 1c date of field work ar graph used to locate EXAMPLE: P-8-V 8-12-75 74L(C)2982	method of location or verification, field work and number of the photoed to locate or identify the object. P-8-V 8-12-75 74L(C)2982
N DETERMI pplicable	NED OR VERIFIED  data by symbols as follows:  P - Photogrammetric	<u>u                                    </u>	RECOVERED d which is also a tri- recovered, enter 'Triang.
1 1 <u>0</u>	- Visually Field identified Theodolite	Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75	covery.
tion 7 - n 8 -	Planetable Sextant	•	VERIFIED VISUALLY ON PHOTOGRAPH Vis.' and date.
sitions*	require entry of method of of field work.	EXAMPLE: V-Vis. 8-12-75	
EXAMPLE: F-2-6-L 8-12-75		**PHOTOGRAMMETRIC FIELD PO	RIC FIELD POSITIONS are dependent in part, upon control established
*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	d by field obser-		ds.

SUPERSEDES NOAA FORM 78-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆ U.S.GPO:1975-0-665-080/1155

HYDROGRAPHIC PARTY
GRODETIC PARTY
CRODETIC PARTY
COMPILATION ACTIVITY
FINAL REVIEW GRP.
COAST PILOT BRANCH 14928,14905 14926, 14927 A.M. (See reverse for responsible personnel) AFFECTED CHARTS = ORIGINATING ACTIVITY METHOD AND DATE OF LOCATION (See instructions on reverse side) 6/30/81 FIELD 6/30/81 V-Vis V-Vis July 1981 U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION LANDMARKS FOR CHARTS 78 S(P) 8217 6/5/78 8217 DATE OFFICE 78 S(P) 6/5/78 been inspected from seaward to determine their value as landmarks
SURVEY NUMBER D.P. Meters 54.29 26.65 614 1251 Chicago Lake Front LONGITUDE 41, 40, 87 ٥ 87 POSITION LOCALITY D.M. Meters 37.90 40.70 NA 1927 1256 1169 LATITUDE 56 5.5 0 41 41 Illinois DESCRIPTION (Record reason for defetion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses) TP-00869 REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Div. To BE DELETED | AMC_NOTfolk |
The following objects HAVE ₩ HAVE NOT |
OPR PROJECT NO. | JOB NUMBER CM-7811 Replaces C&GS Form 567. X TO BE CHARTED TO BE REVISED TO BE DELETED NOAA FORM 76-40 CHARTING ١ STACK STACK

S Page 4 of

	RESPONSIBLE PERSONNEL	PERSONNEL	
TYPE OF ACTION	NAME	SE III	ORIGINATOR
			☐ HYDROGRAPHIC PARTY ☐ HYDROGRAPHIC PARTY
OBJECTS INSPECTED FROM SEAWARD	R. Tibbetts		GEODETIC PARTY OTHER (Specify)
TO THE DETERMINED AND OR VERIFIED	i i	4.	FIELD ACTIVITY REPRESENTATIVE
TOUT TONS OF FEMALES AND/OR VENT FOR	P. Evans	-	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		,	REVIEWER     QUALITY CONTROL AND REVIEW GROUP     REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE (Consult Photogrammetric Instructions No. 64)	OR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	
OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.	ATED OBJECTS (including month, tograph used to bject.	<b>^</b>	mmetric field positions** require method of location or verification. field work and number of the photoed to locate or identify the object.
identify and locate the cexamPLE: 75E(C)6042 8-12-75	bject.	graph used to locate EXAMPLE: P-8-V 8-12-75 74L(C)2982	e or identify the object.
FIELD  J. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols F - Field P - Photogrammet L - Located Vis - Visually V - Verified 1 - Triangulation 5 - Field identication 2 - Traverse 6 - Theodolite	NED OR VERIFIED data by symbols as follows: P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is angulation station is recovered Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75	TION STATION RECOVERED ndmark or aid which is also a tri- n station is recovered, enter 'Triang. h date of recovery. Triang. Rec. 8-12-75
ction on sitions*	<ul><li>7 - Planetable</li><li>8 - Sextant</li><li>require entry of method of</li><li>of field work.</li></ul>	III. POSITION VERIFIED VISUAL Enter 'V+Vis.' and date EXAMPLE: V-Vis. 8-12-75	VERIFIED VISUALLY ON PHOTOGRAPH Vis. and date. V-Vis. 8-12-75
EXAMPLE: F-2-6-L 8-12-75		**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control establishe	<pre>RIC FIELD POSITIONS are dependent In part, upon control established</pre>
*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	ed by field obser- ground survey methods.		ds.

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆ U.S.GPO:1975-0-666-080/1155

NOAA FORM 76-40	-40		N	NA HOO LANG	U.S. DEPARTI	MENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567.	m 567.	LAN	DMARKS FO	OR CHART	Š	LANDWARKS FOR CHARTS	HYDROGRAPHIC PARTY GEODETIC PARTY DHOTO FIFI D BARTY	×+++
TO BE CHARTED	RTED REPORTING UNIT	STATE	<u> </u>	LOCALITY		DATE	COMPILATION ACTIVITY	ייודי
TO BE REVISED  X TO BE DELETED	Coastal Mapping AMC, Norfolk, W	Division Illinois	ois	Chicago	Chicago Lake Front	July 1981	100	LAREVIEW GRP.
The following objects	ĮΨ	_	award to deter	rmine their vo	ilve as landmarks.		(See reverse for responsible personnel)	ible personnel)
OPR PROJECT NO.		SURVEY NUMBER	DATUM			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	110° M	07000 011	NA 1927	7.2		METHOD AND DATE OF LOCATION	E OF LOCATION	
•	107-101	TL-00003		POSITION		(See instructions on reverse side)	on reverse side)	CHARTS
CHARTING	DESCRIPTION  (Record reason for deletion of landmark or sid to navisation.	IN K or sid to navisetion.	LATITUDE		LONGIT UDE	OFFICE	FIELD	AFFECTED
NAME	Show triangulation station names, where applicable, in parentheses)	re applicable, in parentheses,	, ,	D.M. Meters	D.P. Meters			
NWS SIG STA	Storm warnings are not present flagpole is attached to Not of landmark value.	posted here and o a houseboat.	41 56.4	87	38.2	78 S(P) 8227 6-5-78	Delete 7/2/81	14926, 14927 14928, 14905
STACK	Area is congested with Not of landmark value.	landmarks.	41 55.0	87	39.9	78 S(P) 8217 6/5/78	Delete 7/1/81	:
STACK	Not of landmark value.		41 55.1	87	39.9	78 S(P) 8217 6/5/78	Delete 7/1/81	Е
TANK ~	Tank has been dismantled.	ed.	41 55.3	87	40.0	Unverified	Destroyed ~ 7/1/81_	11
STACK '	Not of landmark value.		41 55.3	87	39.9	78 S(P) 8217 6/5/78	Delete 7/1/81	ŧ
CHIMNEY /	Not of landmark value.		41 56.6	87	41.8	Unverified	Delete 6/30/81	=
CHIMNEY	Not of landmark value.	,	41 55.9	87	41.1	78 S(P) 8217-6/5/78	Delete 6/30/81	Ξ
TANK	Tank is being dismantled field edit.	ed at time of/	41 56.1	87	41.2	78 S(P) 8217' 6/5/78	Destroyed~ 6/30/81	=
STACK	Not a landmark value.		41 56.2	87	416	78 S(P) 8217' 6/5/78	Delete 6/30/81	Ξ
STACK '	Not of landmark value.		41 55.8	87	40.5	78 S(P) 8217 6/5/78	Delete 6/30/81.	Ξ
							Dage 5 of	- 1884 C

Page 5 of 5 VTH

*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods	location and date of fi EXAMPLE: F-2-6-L 8-12-75	A. Field positions* requir	1 1	<pre>l - Triangulation 5 - Fi 2 - Traverse 6 - Th</pre>	<b>a</b>	I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols F - Field P - Photogrammet I - Located Vis - Visually	8-12-75	Enter the number and date (including monitary, and year) of the photograph used to identify and locate the bject.  EXAMPLE: 75E(C)6042	OFFICE IDENTIFIED AND LOCATED OBJECTS	7	AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	FORMS ORIGINATED BY QUALITY CONTROL	COLLINIA DE COMINE DIVIVIO DE LES DE	TOTAL COME DESTRUCTION AND JOR VERIFIED		OBJECTS INSPECTED FROM SEAWARD		TYPE OF ACTION	
d by field obser-	field work.	positions* require entry of method of	Planetable Sextant	Field identified Theodolite		NED OR VERIFIED data by symbols as follows: P - Photogrammetric Vis - Visually		and date (including month, f the photograph used to ate the object.	TED OBJECTS	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE O (Consult Photogrammetric Instructions No. 64,			P. Evans	C. Middleton	R. Tibbetts			NASE	RESPONSIBLE PERSONNEL
= =	**PHOTOGRAMMETRIC FIELD PO	EXAMPLE: V-Vis. 8-12-75	+Vis. and	8-12-75	Triang. A	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is angulation station is recovered Rec.' with date of recovery.		entry or method or date of field work graph used to local EXAMPLE: P-8-V	FIELD (Cont'd)  B. Photogrammetric fig	METHOD AND DATE OF LOCATION'				7.					PERSONNEL
)ds.	IC FIELD POSJTIONS are dependent in part, upon control established		date.			<pre>iON RECOVERED aid which is also a tri- is recovered, enter 'Triang. recovery.</pre>	12	method of location of verification, field work and number of the photo-ed to locate or identify the object.  P-8-V	Cont'd) Photogrammetric field positions** require		REPRESENTATIVE	REVIEWER	OFFICE ACTIVITY REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	OTHER (Specify)	GEODETIC PARTY	X PHOTO FIELD PARTY	ORIGINATOR	

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

対 U.S.GPO:1975-0-665-080/1155

FORM C&GS-8352 (3-25-63)

#### NAUTICAL CHART DIVISION

#### 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.

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
	_		Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Diawing No.
			Full Part Before After Verification Review Inspection Signed Via
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