### DESCRIPTIVE REPORT

**Map No.**
TP-00877

**Edition No.**
1

**Job No.**
CM-7811

**Map Classification**
FINAL, FIELD EDITED MAP

**Type of Survey**
SHORELINE

### LOCALITY

**State**
ILLINOIS - INDIANA

**General Locality**
CHICAGO LAKE FRONT

**Locality**
GARY.

**Date**
1978 TO 1981

**Registry in Archives**

# Descriptive Report - Data Record

**Photogrammetric Office**  
Coastal Mapping Division  
AMC, Norfolk, VA

**Officer-In-Charge**  
Max Ethridge, LCDR

## I. Instructions Dated

<table>
<thead>
<tr>
<th>1. Office</th>
<th>2. Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerotriangulation</td>
<td>January 24, 1980</td>
</tr>
<tr>
<td>Compilation</td>
<td>May 27, 1980</td>
</tr>
<tr>
<td>Horizontal Control</td>
<td>June 12, 1978</td>
</tr>
<tr>
<td>Field Edit</td>
<td>June 26, 1981</td>
</tr>
</tbody>
</table>

## II. Datums

| Horizontal:  |  
|--------------|---
| 1927 North American | 

| Vertical:  |  
|------------|---
| Mean High-water | 
| Mean Low-water | 
| Mean Lower Low-water | 
| Mean Sea Level | 

| Map Projection: | 
|----------------|---
| Transverse Mercator | 

| Grid(s): | 
|---------|---
| Indiana | West |

| Scale: | 
|--------|---
| 1:10,000 | 

## III. History of Office Operations

<table>
<thead>
<tr>
<th>Operations</th>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Aerotriangulation</td>
<td>R. Kelly</td>
<td>April 1980</td>
</tr>
<tr>
<td>Method: Analytic</td>
<td>Checked by</td>
<td></td>
</tr>
<tr>
<td>2. Control and Bridge Points</td>
<td>R. Kelly</td>
<td>&quot; &quot;</td>
</tr>
<tr>
<td>Method: Calcomp</td>
<td>Checked by</td>
<td></td>
</tr>
<tr>
<td>3. Stereoscopic Instrument Compilation</td>
<td>R. Cauthorne</td>
<td>&quot; &quot;</td>
</tr>
<tr>
<td>Instrument: Wild B-8</td>
<td>Checked by</td>
<td></td>
</tr>
<tr>
<td>Scale: 1:10,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Manuscript Delineation</td>
<td>R. Cauthorne</td>
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</tr>
<tr>
<td>Method: Smooth drafted</td>
<td>Checked by</td>
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<tr>
<td>Scale: 1:10,000</td>
<td></td>
<td></td>
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<tr>
<td>5. Office Inspection Prior to Field Edit</td>
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<tr>
<td>Method:</td>
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</tr>
<tr>
<td>6. Application of Field Edit Data</td>
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<td>&quot; &quot;</td>
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<tr>
<td>Method:</td>
<td>Checked by</td>
<td></td>
</tr>
<tr>
<td>7. Compilation Section Review</td>
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<td>&quot; &quot;</td>
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<td>Method:</td>
<td>Checked by</td>
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<td>8. Final Review</td>
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<tr>
<td>9. Data Forwarded to Photogrammetric Branch</td>
<td>R. Cauthorne</td>
<td>&quot; &quot;</td>
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<td>Method:</td>
<td>Checked by</td>
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<td>10. Data Examined in Photogrammetric Branch</td>
<td>R. Cauthorne</td>
<td>&quot; &quot;</td>
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<tr>
<td>Method:</td>
<td>Checked by</td>
<td></td>
</tr>
<tr>
<td>11. Map Registered - Coastal Survey Section</td>
<td>R. Cauthorne</td>
<td>&quot; &quot;</td>
</tr>
</tbody>
</table>
1. COMPILATION PHOTOGRAPHY

CAMERA(S)

Wild R.C.-B "S" (S = 152.29 mm)

TIDE STAGE REFERENCE

ZONE

Central

MERIDIAN

90th

STANDARD

□ PREDICTED TIDES

NA

□ REFERENCE STATION RECORDS

NA

□ TIDE CONTROLLED PHOTOGRAPHY

NA

LEGEND

(c) COLOR

□ STANDARD

(P) Panchromatic

□ DAYLIGHT

(I) INFRARED

□ STANDART

TIME REFERENCE

□ DAYLIGHT

NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE

78 S(P)-8177-8180 | 6/5/78 | 13:42 | 1:30,000 | NA

(See below)

REMARKS

The lake level at time of photography was 579.05 feet or 2.25 feet above the International Great Lakes Datum. Water levels were taken at the Calumet Harbor gauge on June 5, 1978.

2. SOURCE OF MEAN HIGH-WATER LINE:

The term Mean High-Water Line is not applicable. The "shoreline" was delineated from the above listed photographs, and is defined as the visible line of contact on the photographs between land and water.

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

TP-00874 | No Survey

TP-00876

5. FINAL JUNCTIONS

NORTH | EAST | SOUTH | WEST

TP-00874 | TP-00878 | No Survey | TP-00876
### HISTORY OF FIELD OPERATIONS

1. **FIELD INSPECTION OPERATION** (Hor. Control) **FIELD EDIT OPERATION**

<table>
<thead>
<tr>
<th>Operation</th>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>L. Davis</td>
<td>Aug. 1979</td>
</tr>
<tr>
<td>2. HORIZONTAL CONTROL</td>
<td>L. Davis</td>
<td>Aug. 1979</td>
</tr>
<tr>
<td>3. VERTICAL CONTROL</td>
<td>None</td>
<td>Aug. 1979</td>
</tr>
<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

#### Type of Investigation
- [ ] Complete
- [ ] Specific Names Only
- [x] No Investigation

6. **PHOTO INSPECTION**

- Clarification of Details: None

7. **BOUNDARIES AND LIMITS**

- Surveyed or Identified: NA

### SOURCE DATA

1. **HORIZONTAL CONTROL IDENTIFIED**

   - **PHOTO NUMBER**: 78Y(P)4411
   - **STATION NAME**: Edison, 1952

2. **VERTICAL CONTROL IDENTIFIED**

3. **PHOTO NUMBERS (Clarification of details)**

   - None

4. **LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED**

   - None

#### Geographic Names

- [ ] Report
- [x] None

#### Supplemental Maps and Plans

- None

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

   - 1-Form 76-53
**HISTORY OF FIELD OPERATIONS**

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
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</thead>
<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>R. Tibbetts</td>
<td>May 1981</td>
</tr>
<tr>
<td>2. HORIZONTAL CONTROL</td>
<td>C. Middleton; J. Koster</td>
<td>May 1981</td>
</tr>
<tr>
<td>3. VERTICAL CONTROL</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
<td>Recovered (Triangulation Stations)</td>
<td>None</td>
</tr>
<tr>
<td>5. GEOGRAPHIC NAMES INVESTIGATION</td>
<td></td>
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<tr>
<td>6. PHOTO INSPECTION</td>
<td>C. Middleton</td>
<td>May 1981</td>
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<td>7. BOUNDARIES AND LIMITS</td>
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**SOURCE DATA**

<table>
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<tr>
<th>Photo Number</th>
<th>Station Name</th>
<th>Photo Number</th>
<th>Station Designation</th>
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<tbody>
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3. PHOTO NUMBERS (Classification of details)

78 S(P) 8178; 8179 (1:10,000 scale)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

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)

1 Film master field edit print
1 Field edit report
3 forms 76-40
I. MANUSCRIPT COPIES

<table>
<thead>
<tr>
<th>Compilation Stages</th>
<th>Date</th>
<th>Remarks</th>
<th>Marine Charts</th>
<th>Hydro Support</th>
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<tbody>
<tr>
<td>Compilation complete pending field edit</td>
<td>Jan. 1981</td>
<td>Class III Manuscript Superseded</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Field edit applied</td>
<td>March 1982</td>
<td>Class I Manuscript</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Final Review</td>
<td>Sept. 1982</td>
<td>Final Map</td>
<td>Jan 7, 1983</td>
<td>None</td>
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</table>

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAVAL DATA BRANCH

<table>
<thead>
<tr>
<th>Number Pages</th>
<th>Chart Letter Number Assigned</th>
<th>Date Forwarded</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>1</td>
<td></td>
<td>Jan 7, 1983</td>
<td>Landmarks to be charted</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>Jan 7, 1983</td>
<td>Landmark recommended for chart deletion</td>
</tr>
</tbody>
</table>

III. FEDERAL RECORDS CENTER DATA

4. Source Data (except for Geographic Names Report) as listed in Section II, NOAA Form 76-36C.
5. Data to Federal Records Center. Date Forwarded: September 1983

IV. SURVEY EDITIONS

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Job Number</th>
<th>Type of Survey</th>
<th>Map Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP:</td>
<td></td>
<td>Revised</td>
<td>Final</td>
</tr>
<tr>
<td>PH:</td>
<td></td>
<td>Resurvey</td>
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</tbody>
</table>

Noa Form 76-36D
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT
TP-00877

This 1:10,000 scale final shoreline map is one of eleven maps, TP-00868 through 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 southern shore of Lake Michigan from Long. 87°20.0' to Long. 87°24.5'. Also featured is an easterly segment of the Grand Calumet River as it extends through Gary, Indiana.

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 May 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 March 1982.

Final review was performed at the Atlantic Marine Center in September 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-00877

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
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

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-and-white 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,

[Signature]
Robert B. Kelly

Approved and Forwarded:

[Signature]
Don O. Norman
Chief, Aerotriangulation Section
CM-7811
CHICAGO LAKE FRONT
ILLINOIS-INDIANA
SHORELINE MAPPING
SCALE 1:10,000
### Closures to Control

#### Strip 1

<table>
<thead>
<tr>
<th>CO</th>
<th>CITY</th>
<th>YEAR</th>
<th>SUB PT A</th>
<th>SUB PT B</th>
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<tbody>
<tr>
<td>304101</td>
<td>GLENVIEW, 1956</td>
<td></td>
<td>4.4</td>
<td>-6.6</td>
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<tr>
<td>304102</td>
<td>&quot;</td>
<td></td>
<td>&quot; &quot; B</td>
<td>3.5</td>
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<tr>
<td>301101</td>
<td>FOSTER, 1977</td>
<td></td>
<td>SUB PT A</td>
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<td></td>
<td>&quot; &quot; B</td>
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<td>298101</td>
<td>021 COC</td>
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<td>OSWALD, 1977</td>
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<td>292101</td>
<td>HIGHLAND, 1952</td>
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<tr>
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<th>SUB PT B</th>
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<td>294802</td>
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<td>&quot; &quot; B</td>
<td>-5.6</td>
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</table>
## Descriptive Report Control Record

**Map No.** TP-00877  
**Job No.** CM-7811

### Geodetic Datum
- **NA 1927**

### Coordinates in Feet

<table>
<thead>
<tr>
<th>Station Name</th>
<th>Source of Information</th>
<th>X Coordinate</th>
<th>Y Coordinate</th>
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<tbody>
<tr>
<td>STOCKTON 2, 1967</td>
<td>410871 1016</td>
<td>x(=)</td>
<td>y(=)</td>
</tr>
<tr>
<td>EDISON, 1952</td>
<td>410871 1004 411100</td>
<td>x(=)412,108.54</td>
<td>y(=)1,494,498.18</td>
</tr>
<tr>
<td>GARY, MUNICIPAL WATER WORKS, TOWER, 1952</td>
<td>410871 1025 168</td>
<td>x(=)</td>
<td>y(=)</td>
</tr>
<tr>
<td>GARY, LAKE COUNTY, SUPERIOR COURTHOUSE, DOME, 1952</td>
<td>410871 1024</td>
<td>x(=)</td>
<td>y(=)</td>
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### Geodetic Position

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<tr>
<th>State</th>
<th>Zone</th>
<th>Latitude</th>
<th>Longitude</th>
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</thead>
<tbody>
<tr>
<td>Indiana</td>
<td>West</td>
<td>(\phi 41^\circ 37' 44.749'')</td>
<td>(\lambda 87^\circ 03' 39.885'')</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(\phi 41^\circ 36' 09.424'')</td>
<td>(\lambda 87^\circ 02' 16.878'')</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(\phi 41^\circ 35' 55.606'')</td>
<td>(\lambda 87^\circ 02' 33.433'')</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(\phi 41^\circ 36' 12.542'')</td>
<td>(\lambda 87^\circ 02' 16.235'')</td>
</tr>
</tbody>
</table>

### Remarks

<table>
<thead>
<tr>
<th>Remarks</th>
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<tbody>
<tr>
<td></td>
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</table>

### Computed By
- **A. Rauck, Jr.**
- **Date:** 5/13/80
- **Computation Checked By:** F. Margiotta
- **Date:** May 14, 1980

### Listed By
- **A. Rauck, Jr.**
- **Date:** 5/5/80
- **Listing Checked By:** F. Margiotta
- **Date:** May 14, 1980

### Hand Plotting By
- **L. Williams**
- **Date:** 5/22/80
- **Hand Plotting Checked By:** I. Perkinson
- **Date:** May 22, 1980

---

*Supersedes NOAA Form 76-41, 2-71 edition which is obsolete.*
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.

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**

A preliminary 76-40 form for Landmarks was prepared for field edit.

38. **CONTROL FOR FUTURE SURVEYS**

None
39. **JUNCTIONS**

Refer to the Data Record Form 76-368, Item 5 of this Descriptive Report.

40. **HORIZONTAL AND VERTICAL ACCURACY**

See Item #32.

46. **COMPARISON WITH EXISTING MAPS**

A comparison was made with the following 1:24,000 scale U.S.G.S. quadrangles: Highland, Indiana, dated 1968; Gary, Indiana, dated 1968; and Whiting, Indiana, dated 1968.

47. **COMPARISON WITH NAUTICAL CHARTS**

Comparison was made with N.O.S. Charts No. 14926, scale 1:60,000, dated January 24, 1976, 3rd edition; No. 14929, scale 1:15,000, dated January 27, 1979, 16th edition; No. 14927, scale 1:60,000, dated May 5, 1979.

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY**

None

**ITEMS TO BE CARRIED FORWARD**

None

Submitted by,

Irene Perkinson
Cartographer

Date: November 7, 1980

Approved,

James L. Byrd, Jr.
Chief, Coastal Mapping Section
FIELD EDIT

An adequate field edit was performed for this shoreline map.

A submerged pipeline at Lat. 41°39.7', Long. 87°24.5' was added to the manuscript from field edit data submitted with adjoining map TP-00876.
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.

52. Adequacy of Compilation

Adequate pending application of Field Edit.

53. Recommendations

None.

57. Landmarks and Aids

One Landmark previously charted has been recommended for deletion. No new Landmarks were identified. There are no Aids to navigation included within the limits of this sheet. The appropriate forms 76-40 are herein submitted.

58. Horizontal Control

One Triangulation Station could not be recovered, the remaining three were recovered. The appropriate forms 75-82A are attached.

Approved and forwarded,

[Signature]
Robert S. Tibbetts
Chief, Photo Party 62

Submitted,

[Signature]
Surveysing Technician
Photo Party 66
61. GENERAL STATEMENT:

Refer to the Summary included in this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not Applicable

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with the following 1:24,000 scale U.S.G.S. quadrangles:

Gary, Indiana, 1968
Whiting, Indiana, 1968
Highland, Indiana, 1968, photorevised 1980

No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

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

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following N.O.S. charts:

14926, 3rd edition, 1:15,000/1:60,000 scale, dated July 24, 1976
14927, 17th edition, 1:60,000 scale, dated May 5, 1979

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by,

Jerry L. Hancock
Final Reviewer

Approved for forwarding,

Billy H. Barnes
Chief, Photogrammetric Branch, AMC

Approved

Chief, Photogrammetric Branch, Rockville

Chief, Photogrammetry Division
GEOGRAPHIC NAMES
FINAL NAME SHEET
CM-7811 (Chicago Lakefront, Illinois-Indiana)
TP-00877
Conrail (RR)
Gary
Grand Calumet River
Lake Michigan
Norfolk and Western (RR)

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
<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD AND DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>STACK</td>
<td></td>
<td>41 37°</td>
<td>25.0°</td>
<td>08.2° 78 S(P)8179 6/5/78</td>
<td>14929 14926</td>
</tr>
<tr>
<td></td>
<td></td>
<td>87 22°</td>
<td>572</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TANK</td>
<td></td>
<td>41 37°</td>
<td>23.0°</td>
<td>38.7° 78 S(P)8179 6/5/78</td>
<td>14927 14905</td>
</tr>
<tr>
<td></td>
<td></td>
<td>87 20°</td>
<td>710</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>West Stack</td>
<td>41 38°</td>
<td>21.4°</td>
<td>25.0° 78 S(P)8178 6/5/78</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D. H. Mitchell Gen. Sta.</td>
<td>87 24°</td>
<td>660</td>
<td>579</td>
<td></td>
</tr>
<tr>
<td>STACK</td>
<td></td>
<td>41 38°</td>
<td>20.2°</td>
<td>22.9° 78 S(P)8178 6/5/78</td>
<td>5/28/81</td>
</tr>
<tr>
<td></td>
<td></td>
<td>87 24°</td>
<td>623</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
By photogrammetric methods, positions are determined by field observation. Field positions are dependent upon ground survey methods.

**Example:** P-6.27

1. **Position determined by field observation.**
   - L - located
   - T - measured
   - V - visually
   - F - photogrammetric

2. **Photogrammetric field positions are dependent upon ground survey methods.**

   **Example:** V-6.27
   - L - located
   - T - measured
   - V - visually
   - F - photogrammetric

3. **Photogrammetric field positions are dependent upon ground survey methods.**

   **Example:** T-6.27
   - L - located
   - T - measured
   - V - visually
   - F - photogrammetric

4. **Photogrammetric field positions are dependent upon ground survey methods.**

   **Example:** V-6.27
   - L - located
   - T - measured
   - V - visually
   - F - photogrammetric

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   - V - visually
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   **Example:** V-6.27
   - L - located
   - T - measured
   - V - visually
   - F - photogrammetric
### LANDMARKS FOR CHARTS

The following objects **HAVE NOT** been inspected from seaward to determine their value as landmarks.

<table>
<thead>
<tr>
<th>OPR PROJECT NO.</th>
<th>JOB NUMBER</th>
<th>SURVEY NUMBER</th>
<th>DATUM</th>
<th>CHART NAME</th>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD AND DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM-7811</td>
<td>TP-00877</td>
<td></td>
<td>NA 1927</td>
<td>TANK</td>
<td>This Tank is largely obscured by a building which distracts its value as a landmark</td>
<td>41 37' 44.6&quot;</td>
<td>87 22' 35.9&quot;</td>
<td>78 S(P) 8179</td>
<td>5/29/81</td>
</tr>
</tbody>
</table>
**PHOTOGRAMMETRIC FIELD POSITIONS ARE DETERMINED BY FIELD OBSERVER.**

- **Example:** F-2-6-L
- **Position:** Field Work
- **Location and date of field work:**
  - **Section:** 8
  - **Range:** 17
  - **T-Res.**:
  - **Gude:** 7
  - **T-Addres.**:
  - **P-Res.**:
  - **Gude:** 7

Field positions determined by field observer.

I. NEW POSITION DETERMINED OR VERIFIED

<table>
<thead>
<tr>
<th>Field</th>
<th>Field (Contd.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-12-75</td>
<td>7-6(C)2592</td>
</tr>
</tbody>
</table>

**EXAMPLE:** F-2-6-L

Field positions determined by field observer.

II. POSITION VERIFIED VISUALLY ON PHOTOGRAPH

**Example:** V-V1.5

Field positions determined by field observer.

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH

**Example:** T-T.5

Field positions determined by field observer.

---

**INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF LOCATION.**

<table>
<thead>
<tr>
<th>Repeatability</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quality control and review group</td>
<td>Forms originated by quality control and review group</td>
</tr>
<tr>
<td>Reviewer</td>
<td></td>
</tr>
</tbody>
</table>

- **Office Activity Representative**
- **Field Activity Representative**

---

**NAME**

**RESPONSIBLE PERSONNEL**

**ORGANIZATION**

**TYPE OF ACTION**

**ACTIVITIES**

- **Perfusion:**
- **Middata:**
- **Middata:**
- **Conf. Identified and located:**
- **Objects inspected:**

---

**DATE**

**MONTH**

**YEAR**
<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>OFFICE</th>
<th>FIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None charted</td>
<td></td>
<td></td>
<td></td>
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</table>
By photogrammetric methods:

Example: Y-VIS.
I. FIELD POSITIONS ARE DETERMINED BY FIELD OBSERVER.

Example: F-7-6-7

A. FIELD POSITIONS REQUIRE ENTRY OF METHOD OF

4. Resection
3. Intersection
2. Traverse
1. Trilateration
L - Verified
V - VIS
P - Photogrammetric
F - Field

After the applicable data by symbols as follows:

NEW POSITION DETERMINED OR VERIFIED

FIELD

Example: 7(b) (C6) 2962
8-12-75

EXAMPLE: P-8-Y

GROUP used to locate or identify the object.

Data of field work and number of the photo.

Entry of method of location or verification.

Example: P-8-Y

REPRESENTATIVE

NEVER

OFFICE ACTIVITY REPRESENTATIVE

FELD ACTIVITY REPRESENTATIVE

OTHER (Specify)

COORDINATE PARTY

HYDROGRAPHIC PARTY

XX PHOTO FIELD PARTY

INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF LOCATION:

INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF LOCATION:

ACtIVITIES

AND REVIEW GROUP AND FINAL REVIEW

FORMS ORGANIZED BY QUALITY CONTROL

I. PerkACTION

C. Final Action

C. MIDACTION

OBJECTS INSPECTED FROM SEAWARD

RESPONSIBLE PERSONNEL

ORGANIZATION

NAME
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.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
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<tbody>
<tr>
<td></td>
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<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
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