NOAA FORM 76-35 (6-80)

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

DESCRIPTIVE REPORT

Map No.	Edition No.
TP-01398	1
Job No.	
CM 8511	
Map Classification	
III	
Type of Survey	
SHORELINE	
LOCALIT	Υ
State	
MICHIGAN	
General Locality	
LAKE SUPERIOR	
Locality	
TAHQUAMENON BAY	
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1986 - TO 19	<u>) [] </u>
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DATE	
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NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP. 01398
TO THE REPORT OF THE THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPOR	D ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	☐ RESURVEY	MAP CLASS III
	REVISED	лов X IXX_СМ -8511
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Photogrammetry Branch, Rockville, MD	TYPE OF SURVEY	JOB PH
	ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE	☐ RESURVEY	SURVEY DATES:
Cdr. A. Y. Bryson	REVISED	19TO 19
I. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
Aerotriangulation April 20, 1987	Field Ja	nuary 27, 1986
Office July 27, 1987		
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,		
II. DATUMS	—	
1. HORIZONTAL: TO 1927 NORTH AMERICAN	OTHER (Specify)	
	OTHER (Specify)	
☐ MEAN HIGH-WATER ☐ MEAN LOW-WATER	International Great	t Lake Datum (1955)
2. VERTICAL: MEAN LOWER LOW-WATER	Incernational diea	ic Lake Datum (1900)
MEAN SEA LEVEL		
3. MAP PROJECTION		RID(S)
Transverse Mercator Projetion	Michigan	East
5. SCALE 1:20,000	STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
I. AEROTRIANGULATION BY	J. Taylor	May_1987
METHOD: Analytical LANDMARKS AND AIDS BY	N/A	May 1987
2. CONTROL AND BRIDGE POINTS METHOD: Kongsberg Flatbed Plotter CHECKED BY	J. Taylor	Play 1907
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	I. Dovle	July 1987
COMPILATION CHECKED BY	J. Schad	July 1987
INSTRUMENT: WILD B-8 CONTOURS BY	N/A	
SCALE: 1:20,000 CHECKED BY	N/A	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	T. Doyle	Aug1987
CHECKED BY	J. Schad	Aug. 1987
METHOD: Smooth Drafting CHECKED BY	N/A	
HYDRO SUBBORT DATA BY	N/A	
SCALE: 1:20,000 CHECKED BY	N/A	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	N/A	
6. APPLICATION OF FIELD EDIT DATA	N/A	
CHECKED BY	N/A	0 : 1007
7. COMPILATION SECTION REVIEW BY 8. FINAL REVIEW BY	J. School	Oct. 1987 Nev 9/987
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	U Schod	NOU 10, 1987
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	P. Denosm	Dec. 1987
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	J. RIKIN'	APR 28.1984

(3-72)				NATIONAL OC	EANIC AND	S. DEPAKIMEN ATMOSPHERIC / NATIONAL	OF COMMERC OMINISTRATIO OCEAN SURVE
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36 (E) 6203,		6/02/86	14:55	1:50,000		photography	
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	OPERATIO	N		NAME	DATE
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. VERTICAL CON		ESTABLISHED B	<u> </u>		
_ 	PRE	-MARKED OR IDENTIFIED B	- 1977 3		
		RED (Triangulation Stations) B			
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	_	NO INVESTIGATION)
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. OTHER FIELD					

NOAA FORM 75-36C (3-72)

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[†]y U.S. Government Printing Office: 1975 → 665-661/1110, Region No. 6 - — — — — -

NOAA FOR	RM 76-36D				ATIONAL OCEANIC	U. S. DEPARTMENT OF COMMERCE AND ATMOSPHERIC ADMINISTRATION
(3-72)						
			RECO	RD OF SURVE	Y USE TP-013	398
I. MANUSC	CRIPT COPIES					
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	DATA COMPILED	<u></u>	DATE	RE	EMARKS	MARINE CHARTS HYDRO SUPPORT
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3.	REPORT TO AERONAUTICAL	L CHA				
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EDITION		(Y	DATE OF FI	ELD EDIT	1	MAP CLASS
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EDITION	DATE OF PHOTOGRAPH		DATE OF FI	ELD EDIT	†	MAP CLASS
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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT TP-01398

Project CM-8511 consisted of the production of Class III shoreline maps. Five 1:20,000-scale and one 1:5,000-scale inset maps were compiled. The area compiled extends from Crisp Point to Nadoway Point, Michigan.

The purpose of this map, TP-01398, 1:20,000 scale is to provide contemporary shoreline data for maintenance of the nautical charting program.

Field operations consisted of aerial photography and the recovery, establishment, and identification (premarking) of horizontal control necessary for aerotriangulation. Twelve horizontal control stations were paneled for use in aerotriangulation. Field operations for project CM-8511 commenced in May 1986 and concluded in June 1986.

Natural color photographs 1:50,000 scale and 1:15,000 scale were taken in June 1986 with the Wild RC-8C(E) camera. Supplemental natural color photographs at 1:30,000 scale were not used for compilation.

Three strips of 1:50,000 scale-color photographs were bridged using analytical aerotriangulation methods. One 1:50,000-scale model and one 1:15,000-scale model were bridged using the NOSAP (IDPF system).

Horizontal control stations used in the adjustment were premarked panels. Elevations from U.S.G.S quadrangles were used as vertical control. The amount of aerotriangulated control proved adequate and meets National Standards of Map Accuracy.

Compilation was performed by the Special Project Unit, Rockville Office. This map delineation was based on office interpretation of the natural color photographs using the Wild B-8 stereoplotter and the ratio color photographs. All line work was smooth drafted.

Final review was performed by the Special Project Unit, Rockville office. This map compiles with the project instructions and meets the requirement for the National Standard of Map Accuracy.

The Descriptive Report contains all the information pertinent to the completion of this map.

FIELD INSPECTION TP-01398

There was no field inspection prior to compilation. Field work accomplished consisted of aerial photography and the recovery, establishment and identification (premarking) of horizontal control necessary for aerotriangulation.

AEROTRIANGULATION REPORT CM-8511 CRISP POINT TO NADOWAY POINT, MICHIGAN

MAY 1987

21. AREA COVERED

The area covered by this report is from Crisp Point to Nadoway Point in Lake Superior, Michigan. This area is covered by five 1:20,000-scale manuscripts and one 1:5,000-scale inset that is part of TP-01396. The manuscripts are TP-01395, TP-01396, TP-01397, TP-01398, and TP-01399.

22. METHOD

Three strips of 1:50,000-scale color photographs were bridged and adjusted to the ground using analytic aerotriangulation methods. The measurements were made with the Wild STK comparator. One 1:50,000-scale model and one 1:15,000-scale model of color photographs were bridged and adjusted to the ground with the IDPF system. Tie points were used to supplement control.

Ratio values were determined for the color bridging photographs. No black-and-white infrared photography was secured for this project.

No aids to navigation or landmarks were located during aerotriangulation.

The manuscripts were plotted on the Kongsburg flatbed plotter in the Michigan State Plane Coordinate System, East Zone. This is a Transverse Mercator projection. The data is NAD 27.

23. ADEQUACY OF CONTROL

The horizontal control provided for this project was adequate. Twelve control stations were provided and used in the adjustment. This project meets NOS requirements for map manuscripts.

24. SUPPLEMENTAL DATA

Nautical charts were used to try to locate objects on the color bridging photography. USGS quads were used to obtain elevations to level the strips.

25. PHOTOGRAPHY

The coverage, overlap, and quality of the photographs proved adequate for this project. Some control station panels were difficult to measure due to poor image quality of the photographs.

Submitted by,

James H. Taylor

Approved and Forwarded:

Don O. Norma

Don O. Norman

Chief, Aerotriangulation Unit

FIT TO CONTROL CM-8511 CONTROL HELD TIE POINT HELD

POINT NUMBER	VALUES X	IN FEET
▲ 861110	0.2	0.0
▲ 220110 ▲ 220101	-2.0 0.2	-0.8 -0.3
▲861100	1.7	0.2
220120	0.6	1.6
220130	0.5	-1.9
▲230100 ▲230111	1.6 -1.8	-0.5 1.4 -1.5
219801 219802 219803	3.1 1.9 -1.3	1.9 2.6 2.7
▲ 218101	0.0	0.6
▲ 204101 ■ 193801 ■ 193802 ■ 193803 ■ 193804	0.8 -1.0 0.4 -0.7 0.7	1.4 -1.8 0.8 0.2 -0.6
12 ▲198101 ▲200101 ▲202100 193801 193802 193803	1.1 -3.8 0.6 1.0 -0.3 0.7	1.6 -1.6 -0.1 1.7 -0.7 -0.1
	NUMBER	NUMBER A 861110 A 220110 A 220101 A 220101 A 861100 D 2 A 861100 D 1.7 D 20120 D 0.6 D 20130 D 0.5 A 227100 A 230100 A 230100 D 1.6 A 230111 D 1.8 D 19802 D 1.9 D 1.3 A 218101 D 0.0 A 204101 D 193802 D 193803 D 0.4 D 193803 D 0.7 D 193804 D 0.7 D 193802 D 193803 D 0.7 D 193801 D 193802 D 0.6 D 193801 D 0.6 D 193801 D 0.6 D 193801 D 0.6 D 0.6 D 193801 D 0.6 D 0.6 D 193801 D 0.6 D 0.6 D 0.6 D 0.3 D 0.6 D 0.6 D 0.6 D 0.6 D 0.6 D 0.8 D 0.7

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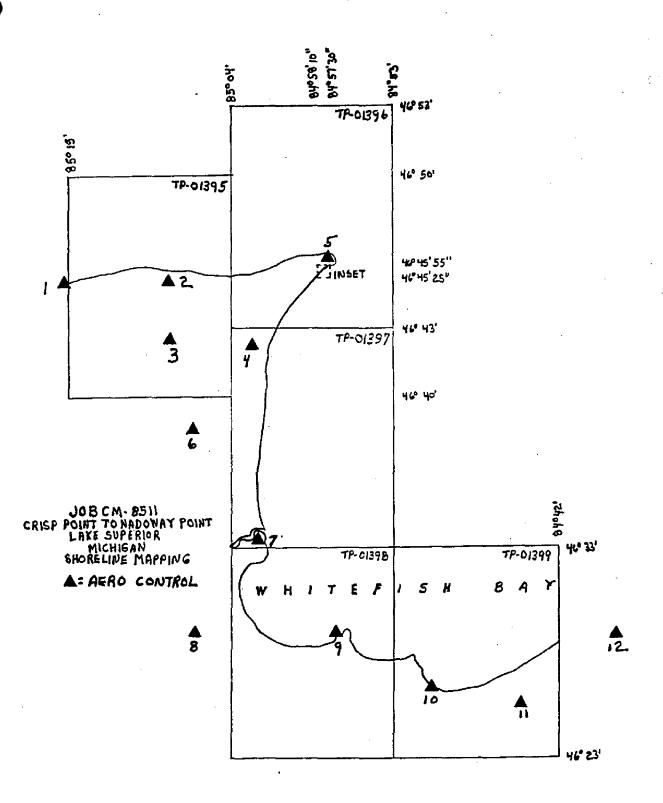
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Tie From Strip 50-4	206801	-2.0	3.8
Tie From Strip 50-4	206802		5,1
Tie From Strip 50-4	206803	-3.6	
Sub Station #8 TP	▲ 213101	-1.5	-0.5
STRIP 50-4		•	
Tie From Strip 50-3	206801	2.0	-3.8
Tie From Strip 50-3	206802		-5.1
Tie From Strip 50-3	206803	3.6	
Sub Station #8 TP	▲ 213101	-0.2	0.9
Tahqumenon, 1965, Az. Mk.		- • -	
Sub Station #7	▲ 215101	1.9	-1,4
Prison, 1965 Sub Station #6	▲ 217101	-1.7	1.1
Andrus, 1965 Sub Station #4	▲ 218101	0.9	2.3
Tie From Strip 50-1	219801	-3.1	-1.9
Tie From Strip 50-2	2 219802	-1.9	
Tie From Strip 50-3	219803	1.3	-2.7
White, 1965 Sub Station #5	▲ 220101	1,5	-1.5
Whitefish Point Hrb In	<u> 220101</u>	1,5	-1.5
Brkwtr Lt., 1981	▲ 220110	-0.5	1.1

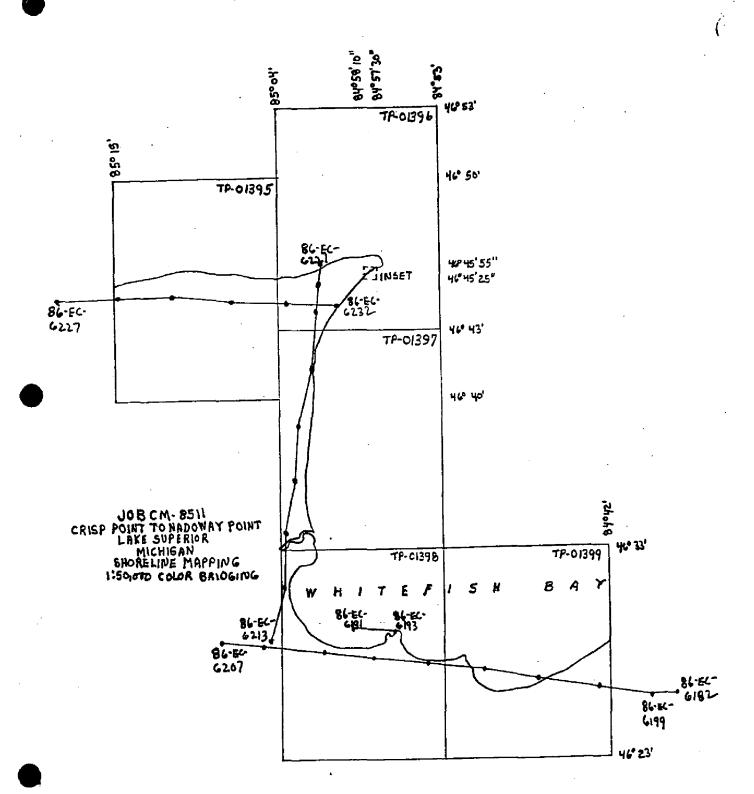
COLOR BRIDGING RATIO VALUE CM-8511

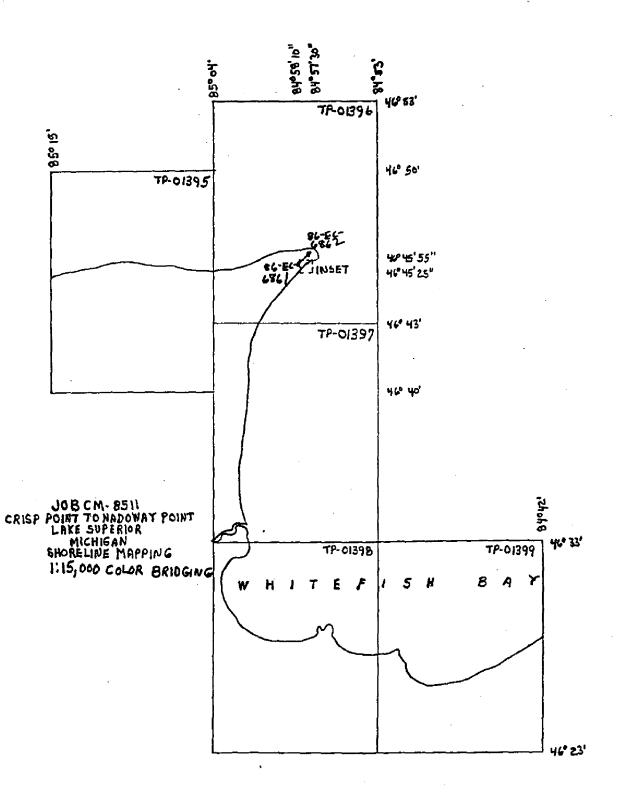
86-EC-6191 and 6193	Ratio <u>2.580</u>
86-EC-6200 thru 6205	Ratio <u>2.568</u>
86-EC-6213 thru 6221	Ratio <u>2.581</u>
86-EC-6228 thru 6231	Ratio <u>2.583</u>
86-EC-6861 and 6862	Ratio 2.980

KEY TO NUMBERED STATIONS CM-8511

PANEL NO.	AERO NO.
1	227100
2	230100
3	230111
4	218101
5	220101
6	217101
•	
7	215101
8	213101
· 9	204101
10	202100
11	200101
12	198101
	1 2 3 4 5 6 7 8







NOAA FORM 76-41 (6-75)		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD	NATIONAL	U.S. DEPARTMENT OF COMMERCE OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO. TP-01398	JOB NO. CM-8511	11	GEODETIC DATUM N.A. 1927	Special Project Unit	sct Unit
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE FAST ZONE EAST	GEOGRAPHIC POSTTION	REMARKS
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COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY D. NORMAN HAND PLOTTING BY		DATE 11-12-86 '	LISTING CHECKED BY HAID PLOTTING CHECKED BY	Harrod Jr./J. Schad	DATE 12-11-86 DATE
		SUPERSEDES NO	ERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	CH IS OBSOLETE.	

COMPILATION REPORT TP-01398

31. DELINEATION

Delineation of detail was accomplished using a Wild B-8 stereoplotter.

32. CONTROL

Horizontal control furnished by the Aerotriangulation Unit was adequate for controlling the stereomodels. Refer to the Photogrammetric Plot Report bound with this Descriptive Report for additional information.

Vertical control was achieved by using a combination of elevations provided by the Aerotriangulation Unit, USGS quadrangles, and the land/water interface.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

The compilation of contours was not a requirement of this project. Drainage was compiled based on office interpretation of the bridging/compilation photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The visible line of contact between land features and the water was compiled as the shoreline. The water level at the time of photography was 601.7 feet. Shoreline delineation was compiled as described in item 31 of this report.

The alongshore detail consisted of a ruins area on this map at 40°32'30"-85°01'45". Alongshore delineation was compiled as described in item 31 of this report.

36. OFFSHORE DETAIL

Offshore detail consisted of ruins, numerous rocks, and an islet in Tehqamenon Bay. Offshore delineation was compiled as described in item 31 of this report.

37. LANDMARKS AND AIDS

There are no landmarks and aids within the limits of this map.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Refer to item 5 of NOAA Form 76-36B, which is bound with this Descriptive Report, for information on map junctions.

40. HORIZONTAL AND VERTICAL ACCURACY

This map meets the National Standards of Map Accuracy. For additional information, refer to the Aerotriangulation Report bound with this Descriptive Report.

41.through 45. - Not Applicable

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with the following 1:24,000-scale, U.S. Geological Survey quadrangles:

McNearney Lake, Michigan, 1951, Photorevised 1975 Emerson, Michigan, 1951, Photorevised 1975 Piatt Lake, Michigan, 1951, Photorevised 1975

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Service nautical chart:

14962, 17th Edition (October 12, 1985), scale 1:120,000.

A Chart Maintenance Print indicating the results of the comparison was forwarded to the Marine Chart Branch, Rockville, Maryland. Refer to the print for items to be immediately applied and carried forward.

Submitted by,

Ted M. Doyle Cartographer

Approved and Forwarded:

John A. Mooney

Chief, Special Projects Unit

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8511 (Crisp Point to Nadoway Point, Lake Superior, MI)

TP-01398

Ankodosh Creek

Galloway Creek

Halfaday Creek

Menekaunee Point

Naomikong Creek

Naomikong Island

Naomikong Point

Roxbury Creek

Tahquamenon Bay

Tahquamenon Island

Whitefish Bay

Approved

Charles E. Harrington Chief Geographer Nautical Charting Division

FINAL REVIEW REPORT TP-01398

61. GENERAL STATEMENT

Refer to the Summary bound with this Descriptive Report.

- 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS-None
- 63. COMPARISON WITH MAPS OF OTHER AGENCIES

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

McNearney Lake, Michigan 1951, Photorevised 1975 Emerson, Michigan 1951, Photorevised 1975 Piatt Lake, Michigan 1951, Photorevised 1975

- 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS-None
- 65. COMPARISON WITH NAUTICAL CHARTS

14962, Scale 1:120,000, 17th Edition, dated October 12, 1985.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map meets the National Standards of Map Accuracy and requirements specified in the Project Instructions.

Submitted by,

James E. Schad Unit Reviewer

Vames & Schad

Approved for Forwarding:

Chief, Special Projects Unit

Approved:

Joey O. Rabour, fr.
Chief, Photogrammetric Production Section

Chief, Photogrammetry Branch

HAUTICAL 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
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			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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			Drawing No.
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			Drawing No.
			
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.