

TP-01271

TP-01271

NOAA FORM 76-35  
(6-80)

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

# DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED

<i>a</i> No. P-01271	<i>Edition No.</i> 1
<i>b</i> No. M-8312	
<i>Map Classification</i> CLASS III (FINAL)	
<i>Type of Survey</i> SHORELINE	
LOCALITY	
<i>State</i> NEW YORK - CONNECTICUT	
<i>General Locality</i> THROGS NECK, NY TO SAUGATUCK RIVER, CT	
<i>Locality</i> HUNTINGTON BAY	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> 19 84 TO 19 </div>	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center Norfolk, VA		SURVEY TP. <u>01271</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final III</u> <u>CM-8312</u> JOB <u>PH</u>	
OFFICER-IN-CHARGE  C. Dale North, Jr., CDR		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
<b>I. INSTRUCTIONS DATED</b>			
<b>1. OFFICE</b>		<b>2. FIELD</b>	
Compilation March 26, 1987		Control July 31, 1984	
<b>II. DATUMS</b>			
1. HORIZONTAL: <input type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION  Lambert Conformal Projection		4. GRID(S) STATE New York ZONE Long Island	
5. SCALE		STATE ZONE	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: <u>analytic</u> BY		B. Thornton	Feb 1987
LANDMARKS AND AIDS BY		D. Norman	Feb 1987
2. CONTROL AND BRIDGE POINTS <u>synetics 1201</u> PLOTTED BY		F. Mauldin	Mar 1987
METHOD: <u>magnetic tape transfer</u> CHECKED BY		F. Mauldin	Mar 1987
3. STEREOSCOPIC INSTRUMENT COMPILATION PLANIMETRY BY		P. Evans	Jun 1987
INSTRUMENT: Wild B-8 CHECKED BY		F. Mauldin	Jul 1987
SCALE: 1:20,000 CHECKED BY		NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY		P. Evans	Jul 1987
METHOD: <u>smooth drafted</u> CHECKED BY		F. Mauldin	Aug 1987
SCALE: 1:20,000 HYDRO SUPPORT DATA BY		P. Evans	Jul 1987
CHECKED BY		F. Mauldin	Aug 1987
5. OFFICE INSPECTION PRIOR TO <u>release</u> final BY		F. Mauldin	Aug 1987
review CHECKED BY		NA	
6. APPLICATION OF FIELD EDIT DATA CHECKED BY		NA	
7. COMPILATION SECTION REVIEW <u>Class III</u> BY		F. Mauldin	Aug 1987
8. FINAL REVIEW <u>Class III</u> BY		L.O. Neterer, Jr.	Aug 1987
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		L.O. Neterer, Jr.	Sept. 1987
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		P. Dempsey	Nov. 1987
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		E. DAUGHERTY	NOV 87

NOAA FORM 76-36B  
(3-72)

TP-01271

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

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10(Z) Z=153.15mm Wild RC-10(C) C=88.46mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
84Z(C) 5322-5325	6-21-84	10:47	1:50,000	0.9 ft above MLW	
84Z(C) 5335-5337	6-21-84	11:06	1:50,000	0.9 ft above MLW	
84C(I) 5926-5929	6-27-84	15:15	1:50,000	0.6 ft above MLW	
84C(I) 5933-5936	6-27-84	15:28	1:50,000	0.5 ft above MLW	
84C(I) 5892-5895	6-27-84	09:37	1:50,000	6.5 ft above MLW	
84C(I) 5902-5905	6-27-84	09:55	1:50,000	6.5 ft above MLW	
				Mean Tide Range = 7.1 ft.	

## REMARKS

Stage of tide for all photography was based on predicted tide data, using Eatons Neck Point gage.

## 2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from office interpretation of the above listed compilation/bridging color photographs using stereo instrument methods. The tide coordinated black and white infrared photographs were used to assist in the interpretation of the mean high waterline.

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

The low water line was compiled graphically from the above listed tide coordinated black and white infrared photographs.

## 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
TP-01268	No survey	No survey	TP-01270 TP-01267
REMARKS			

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NATIONAL OCEAN SURVEY

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## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Dunford	Nov 1985
2. HORIZONTAL CONTROL	RECOVERED BY J. Dunford	Nov 1985
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY J. Dunford	Nov 1985
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY NA	
	LOCATED (Field Methods) BY NA	
	IDENTIFIED BY NA	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY NA	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Photoidentified

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
84Z(C) 5323	HUNTINGTON STATION WATER TANK 1939 (3 subpoints selected)		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. 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 CSI card Form 76-53

2 Forms 76-86 Abstract of Directions

1 form 75-63 Observations of Sun

3 forms 76-19 HP Distance Meter Observations

NOAA FORM 76-36D  
(3-72)TP-01271 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
U. S. DEPARTMENT OF COMMERCE

## RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	Aug 1987	Class III Manuscript		
Final Review	Aug 1987	Final Class III Map		

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER pages	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
2			charted landmarks and aids to navigation forms

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

## III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.  
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.  
 3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.  
 ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

## IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

JOB CM-8312

WESTERN LONG ISLAND SOUND  
THROGS NECK, NEW YORK TO  
SAUGATUCK RIVER, CONNECTICUT

SHORELINE MAPPING  
SCALE= 1:20,000

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-01271

This 1:20,000 scale map is one of six maps at 1:20,000 scale in project CM-8312, Western Long Island Sound, Throgs Neck, New York, to Saugatuck River, Connecticut. The project extends from latitude  $41^{\circ} 10' 00''$ , longitude  $73^{\circ} 20' 00''$  southwest to latitude  $40^{\circ} 43' 00''$  longitude  $73^{\circ} 50' 00''$ .

Photographic coverage was provided in June 1984 with the "Z" camera (focal length 153.15 millimeters) using color film at 1:50,000 scale. Also the "C" camera (focal length 88.46 millimeters) using infrared film at 1:50,000 scale was used to take photographs at mean high water and mean low water based on predicted tide data.

Field work prior to compilation was accomplished during November 1985. This consisted of photoidentification of horizontal control to satisfy aerotriangulation requirements.

Analytic aerotriangulation was adequately performed at the Washington Science Center in February 1987. The manuscripts were ruled at the Atlantic Marine Center from data furnished by the aerotriangulation process.

Compilation was performed at the Atlantic Marine Center, from office interpretation of the 1:50,000 scale color photography, in August 1987.

Final review was performed at the Atlantic Marine Center in August 1987.

A Chart Maintenance Print, for Marine Charts Branch, and Notes to the Hydrographer Print, for the Hydrographic Branch were forwarded. This map is to be registered as a Final Class III Map.

The original base map and all pertinent data were forwarded to the Washington Science Center for final registration.

AEROTRIANGULATION REPORT  
CM-8312  
WESTERN LONG ISLAND SOUND

FEBRUARY 1987

21. AREA COVERED

This shoreline mapping project covers Western Long Island Sound Throgs Neck, New York to Saugatuck River, Connecticut. There are six 1:20,000-scale sheets that cover the job area, TP-01266 through TP-01271.

22. METHOD

Three strips of 1:50,000-scale photographs: 84-Z(C)5293 to 5306, 84-Z(C)5314 to 5326, 84-Z(C)5335 to 5345 were bridged by analytical aerotriangulation methods and adjusted to ground using field identified control. Office identified intersection stations were used as checks. The original film was used in place of film positives.

Tie points were used to ensure adequate junctions of all strips and were used as supplemental control.

Ratio values were determined for the mean high and low water infrared photographs and for the bridging/compilation photographs. A copy of the values is attached to this report.

A magnetic tape was generated with the bridged points based on the New York, Long Island Sound Coordinate System. These coordinates are referenced to the Lambert Conic Projection.

23. ADEQUACY OF CONTROL

The control for this project is adequate for the job and meets the National Ocean Service's requirements. A listing of closures to control is attached.

24. SUPPLEMENTAL DATA

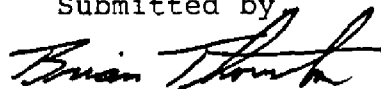
USGS topographic quadrangles were used to obtain vertical control for bridging.



25. PHOTOGRAPHY

The coverage, overlap, and quality of the photographs were adequate for the job.

Submitted by



Brian Thornton

Approved and Forwarded:



Don O. Norman  
Chief, Aerotriangulation Unit

## FIT TO CONTROL

△ = Control point held in adjustment

□ = Tie point held in adjustment

STRIP #50-1

<u>STATION NAMES</u>		<u>POINT NO.</u>	<u>VALUES IN FEET</u>	
			<u>X</u>	<u>Y</u>
△ Fairfield Dupont Stack	Sub Pt. A	294101	+ 1.1	+ 1.2
△ Fairfield Dupont Stack	Sub Pt. B	294102	- 1.3	- 1.2
Fairfield Dupont Stack	Sub Pt. C	294103	-11.9	-10.1
△ Judy	Sub Pt. A	296101	- 3.7	- 1.3
Judy	Sub Pt. B	296102	-34.1	+10.4
△ Ziegler	Sub Pt. A	298101	+ 4.1	0.0
Ziegler	Sub Pt. B	298102	0.0	+ 1.7
△ Ziegler	Sub Pt. C	298103	+ 3.7	+ 1.4
△ Nine	Sub Pt. A	303101	- 3.6	- 0.8
Nine	Sub Pt. B	303102	- 5.4	+ 0.3
△ Nine	Sub Pt. C	303103	- 4.0	+ 1.6
△ Hiscock	Sub Pt. A	306101	+ 2.9	- 1.4
△	Sub Pt. B	306102	+ 0.7	+ 0.5

STRIP #50-3

□ Tie from Strip #50-4	325801	- 1.9	- 2.6
Tie from Strip #50-4	325802	- 1.2	- 4.7
Tie from Strip #50-4	325803	- 4.4	- 8.8
Tie from Strip #50-4	325804	+15.7	- 4.0
□ Tie from Strip #50-4	323801	+ 0.5	+ 0.6
Tie from Strip #50-4	323802	+ 1.7	0.0
Tie from Strip #50-4	323803	0.0	- 2.3
□ Tie from Strip #50-4	324801	+ 1.7	+ 1.0
Tie from Strip #50-4	324802	- 1.1	+ 1.9
Tie from Strip #50-4	324803	0.0	- 0.6
Tie from Strip #50-4	322801	- 2.0	- 0.3
□ Tie from Strip #50-4	322802	- 2.0	+ 4.0
Tie from Strip #50-4	322803	- 1.4	- 2.6
□ Tie from Strip #50-4	321801	+ 1.8	- 1.1
Tie from Strip #50-4	321802	+ 1.1	- 3.5
Tie from Strip #50-4	321803	+ 0.9	- 3.0
□ Tie from Strip #50-4	320801	+ 1.4	+ 0.2
Tie from Strip #50-4	320802	- 0.5	+ 2.7
Tie from Strip #50-4	320803	+ 1.3	- 1.0
Tie from Strip #50-4	319801	+ 1.6	- 1.1
□ Tie from Strip #50-4	319802	- 0.8	- 1.2

2

Tie from Strip #50-4	319803	- 1.4	- 1.3
□ Tie from Strip #50-4	317801	- 2.2	- 2.3
Tie from Strip #50-4	317802	- 1.3	- 2.2
Tie from Strip #50-4	317803	- 1.6	- 2.4
Tie from Strip #50-1	344801	+ 3.5	- 3.4
Tie from Strip #50-1	344802	+ 3.1	- 3.9
Tie from Strip #50-1	344803	+ 2.6	- 4.5
Tie from Strip #50-4	315801	+ 1.1	+ 0.6
Tie from Strip #50-4	315802	+ 0.4	+ 4.8
Tie from Strip #50-4	315803	+ 1.7	+ 1.7
Circle #6	Sub Pt. 1 314101	+ 3.9	+ 2.9
□ Tie from Strip #50-4	Sub Pt. 2 314102	+ 1.3	+ 1.5
	316801	+ 1.2	+ 0.5
	316802	- 0.7	+ 2.8
	316803	+ 1.7	+ 4.9

STRIP #50-4

△ Circle #6	Sub Pt. 1 314101	+ 1.0	- 1.5
△ Circle #6	Sub Pt. 2 314102	- 0.2	0.0
△ Payne	Sub Pt. A 317101	- 0.6	+ 1.8
△	Sub Pt. B 317102	- 1.0	- 0.4
△ Tippet	Sub Pt. A 320101	+ 0.7	- 0.8
△	Sub Pt. B 320102	- 2.6	+ 3.7
△ Huntington Sta. W.T.	Sub Pt. A 323101	+ 3.9	- 2.6
△	Sub Pt. B 323102	+ 2.0	- 3.0
	Sub Pt. C 323103	+ 0.8	- 2.1
△ Fleet	Sub Pt. A 325101	- 1.8	+ 0.4
△ Fleet	Sub Pt. B 325102	- 1.4	+ 2.5
Fleet	Sub Pt. C 325103	- 0.1	+ 1.2

## RATIO VALUES

CM-8312

## MHW 1:50,000-Scale Black-and-White Infrared

84-C(R) 5863-5880	Ratio 2.538
84-C(R) 5882-5897	Ratio 2.533
84-C(R) 5899-5915	Ratio 2.531

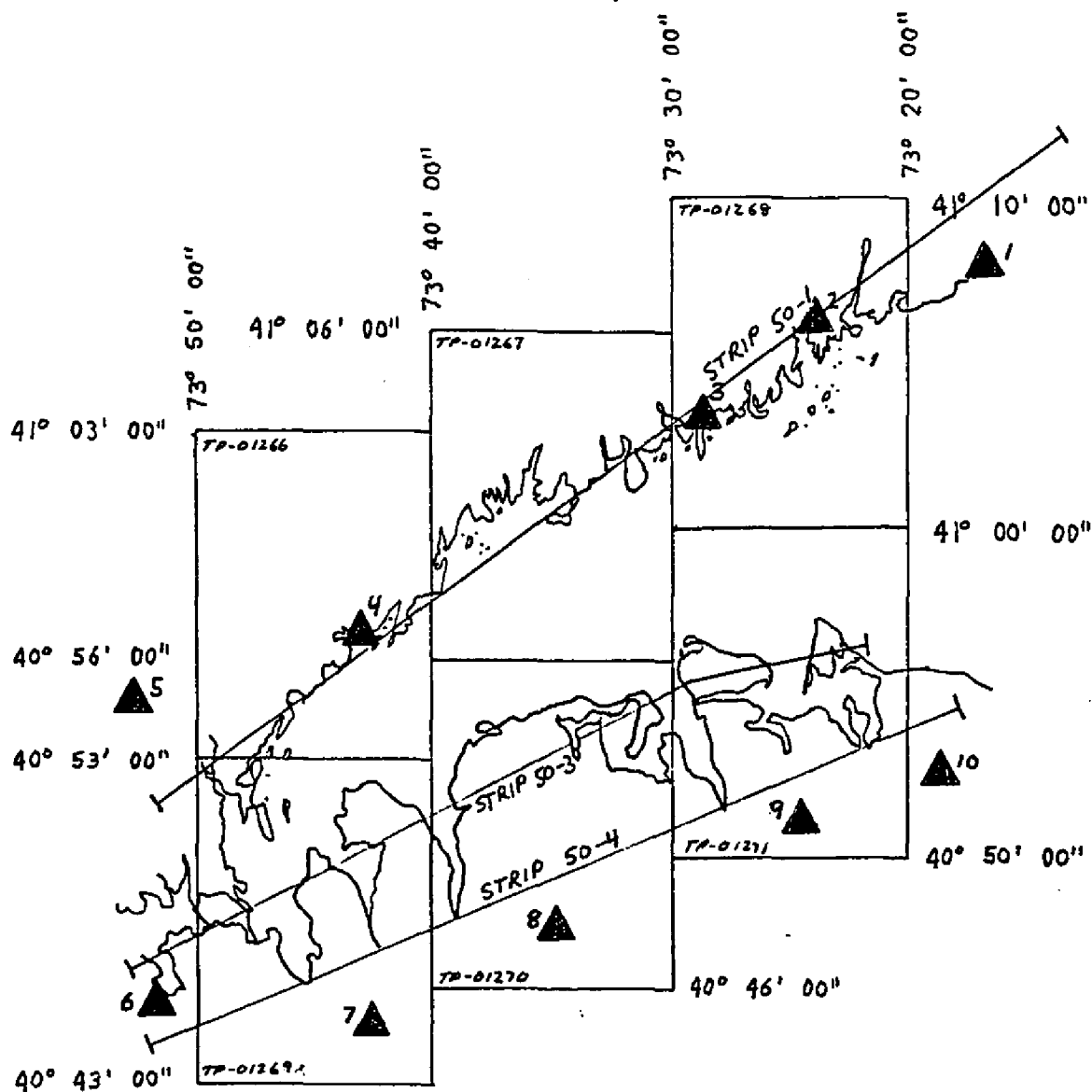
## MLW 1:50,000-Scale Black-and-White Infrared

84-C(R) 5917-5931	Ratio 2.546
84-C(R) 5933-5943	Ratio 2.557
84-C(R) 5945-5960	Ratio 2.551

## Bridging Photographs 1:50,000 Color

84-Z(C) 5293-5306	Ratio 2.545
84-Z(C) 5314-5326	Ratio 2.554
84-Z(C) 5335-5345	Ratio 2.549

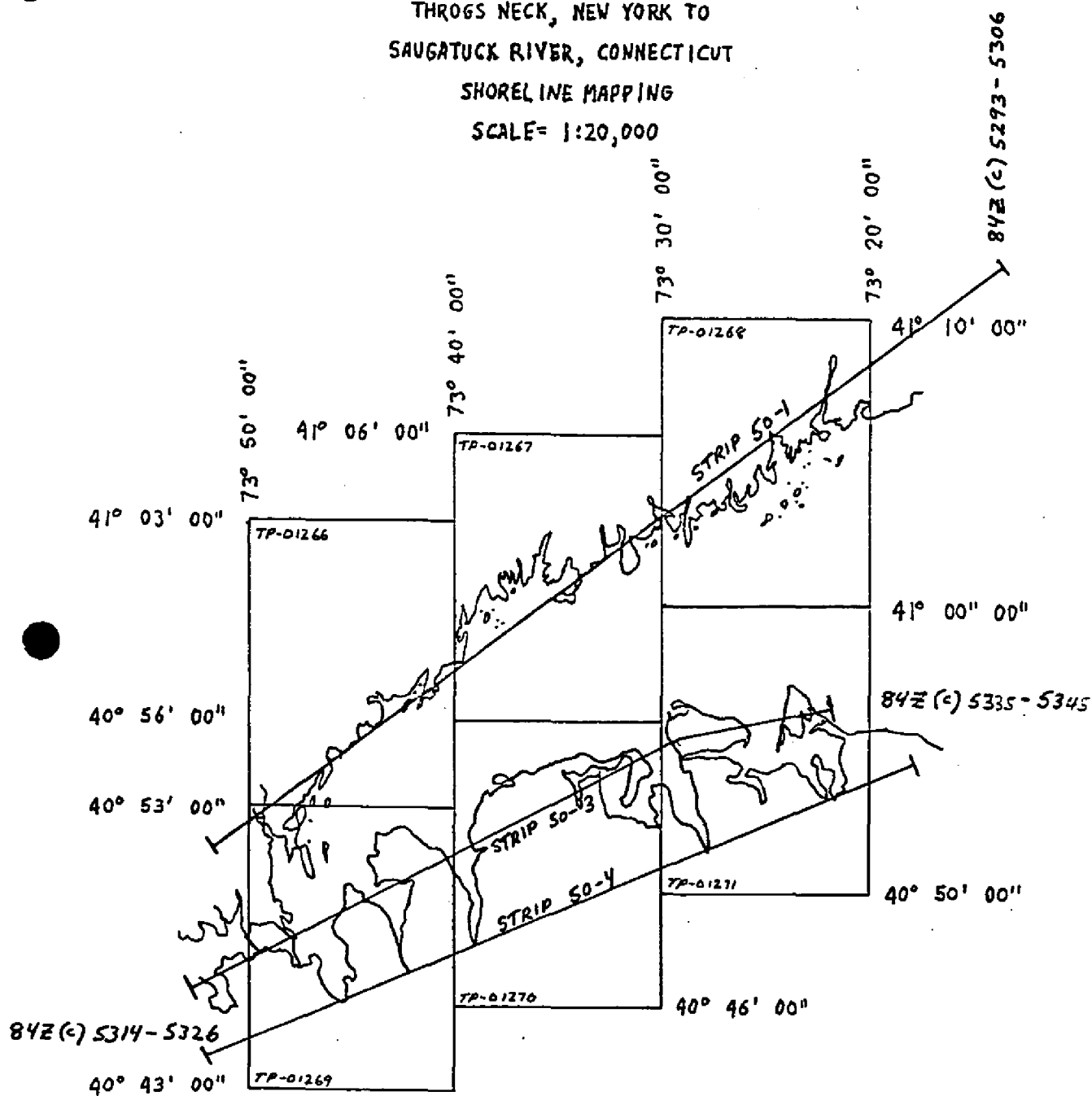
JOB CM-8312  
 WESTERN LONG ISLAND SOUND  
 THROGS NECK, NEW YORK TO  
 SAUGATUCK RIVER, CONNECTICUT  
 SHORELINE MAPPING  
 SCALE= 1:20,000



HORIZONTAL CONTROL

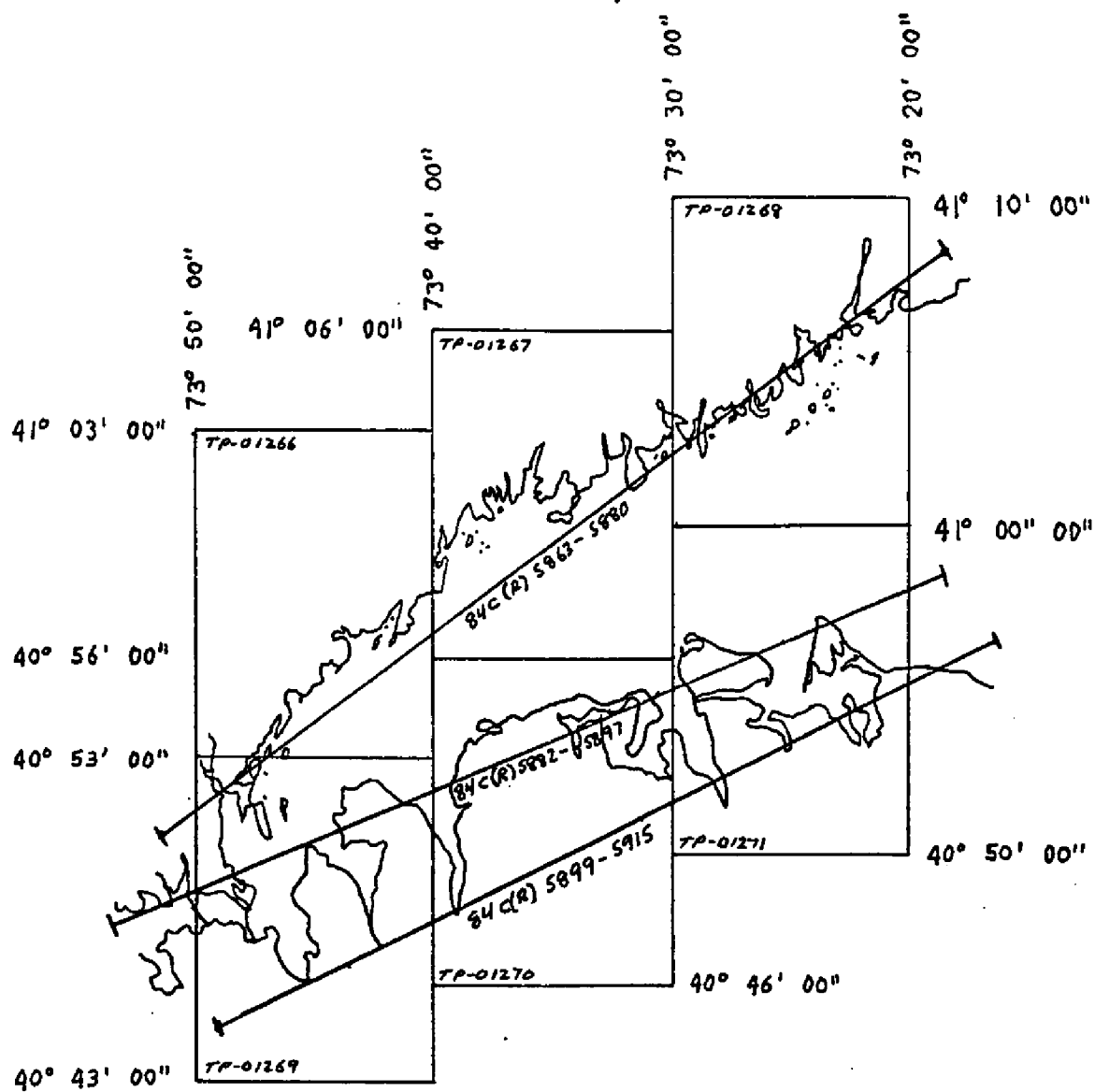
- |                           |                                  |
|---------------------------|----------------------------------|
| 1. FAIRFIELD DUPONT STACK | 6. CIRCLE #6                     |
| 2. JUDY                   | 7. PAYNE                         |
| 3. ZIEGLER                | 8. TIPPETT                       |
| 4. NINE                   | 9. HUNTINGTON STATION WATER TANK |
| 5. HISCOCK                | 10. FLEET                        |

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 SHORELINE MAPPING  
 SCALE= 1:20,000



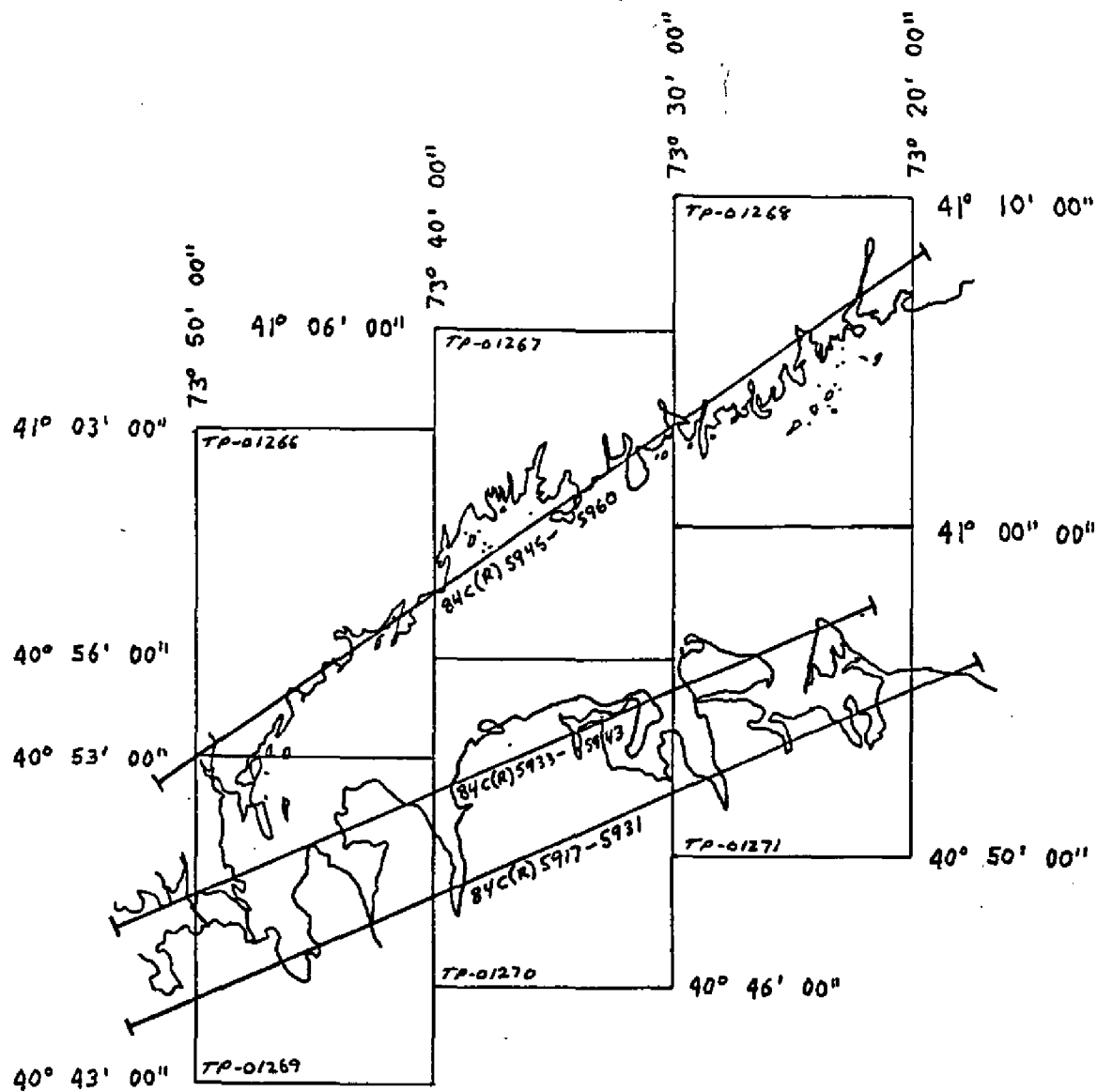
1:50,000 COLOR BRIDGING

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1:50,000 MHW

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 SAUGATUCK RIVER, CONNECTICUT  
 SHORELINE MAPPING  
 SCALE = 1:20,000



1:50,000 MLW



## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY		
TP-01271	CM-8312	N.A. 1927	Coastal Mapping Unit, AMC		
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE New York ZONE Long Island	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
GREAT NECK WATER TANK 1932	Quad 400731 STA 1164	296	x= y=	φ 40 53 56.707 λ 73 23 53.294	
TWIN A, 1930	Quad 400731 STA 1173	292A	x= y=	φ 40 55 54.454 λ 73 27 59.410	
TWIN B, 1930	Quad 400731 STA 1171	292B	x= y=	φ 40 55 54.068 λ 73 27 59.339	
EATONS NECK LIGHTHOUSE 1833	Quad 400731 STA 1170	294	x= y=	φ 40 57 14.000 λ 73 23 45.355	
HUNTINGTON STATION WATER TANK, 1939	Quad 400731 STA 1226	287	x= y=	φ 40 51 18.333 λ 73 25 02.735	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY P. L. Evans		8/25/87	LISTING CHECKED BY		DATE 7/29/87
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE

## COMPILATION REPORT

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31. DELINEATION:

Delineation was accomplished using Wild B-8 stereo instrument and graphic compilation methods. Instrument compilation was used to delineate shoreline, alongshore, and interior detail based upon office interpretation of the 1:50,000 scale bridging/compilation color photographs. Tide coordinated mean high water infrared ratio photographs were used to assist in interpretation of the shoreline. Tide coordinated mean low water infrared ratio photographs were used to graphically compile the approximate mean low water line. Control for graphic delineation was provided by the instrument compilation of coastal detail and common image points.

The Northport Platform and two lights, at approximate latitude  $41^{\circ} 57.3'$  and longitude  $73^{\circ} 20.4'$ , were not delineated due to insufficient stereo compilation photograph coverage of the area.

All photographs used to compile this map are listed on NOAA form 76-36B. The color compilation photography was adequate, however, in some areas, glare on the water made the delineation of offshore detail difficult.

32. CONTROL:

The horizontal control was adequate. Refer to the Aerotriangulation Report, dated February 1987.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line was compiled from office interpretation of the bridging/compilation color photographs and was complimented by the tide coordinated mean high water infrared photographs. The photographs were ratioed in order to make an accurate check with the 1:20,000 scale map.

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36. OFFSHORE DETAILS:

Offshore detail was compiled by instrument methods using the 1:50,000 scale bridging/compilation color photographs as described in item #31.

The tide coordinated mean low water infrared photographs were ratioed in order to graphically compile the approximate mean low water line as described in item #31. There appeared to be some inconsistency in tone when the ratios were processed from the contacts.

37. LANDMARKS AND AIDS:

There are thirty charted landmarks and nine charted aids to navigation within the limits of this map. Among these, twenty-three landmarks and three aids were located/verified photogrammetrically.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Refer to the Data Record Form 76-36B, item 5, of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY:

See item #32.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with the following:

Huntington, New York; dated 1967, photorevised 1979; scale 1:24,000  
(U.S.G.S.)

Greenlawn, New York; dated 1967, photorevised 1979; scale 1:24,000  
(U.S.G.S.)

Northport, New York; dated 1967, photorevised 1979; scale 1:24,000  
(U.S.G.S.)

Lloyd Harbor, New York-Connecticut; dated 1967; scale 1:24,000  
(U.S.G.S.)

T-12389; PH-6603; scale 1:10,000 (U.S.C. & G.S.)

T-12391; PH-6603; scale 1:10,000 (U.S.C. & G.S.)

T-12392; PH-6603; scale 1:10,000 (U.S.C. & G.S.)

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47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following National Ocean Service charts:

12363; 32nd edition; dated October 18, 1986; scale 1:80,000  
12364; 25th edition; dated January 10, 1987; scale 1:40,000 SC  
12365; 19th edition; dated March 10, 1984; scale 1:20,000

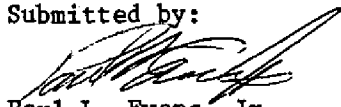
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

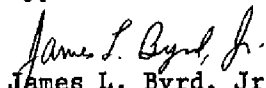
ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

  
Paul L. Evans, Jr.  
Cartographic Technician  
July 27, 1987

Approved:

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

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

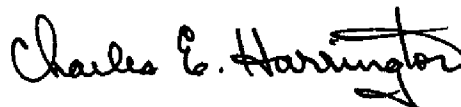
CM-8312 (Throgs Neck, NY to Saugatuck River, CT)

TP-01271

Asharoken  
Bird Island  
Blanchard Lake  
Bluff Point  
Centerport  
Centerport Beach  
Centerport Harbor  
Cold Spring Harbor  
Cold Spring Harbor (locality)  
Columbia Grove  
Cooper Bluff  
Cove Neck  
Crab Meadow (locality)  
Crescent Beach  
Duck Island  
Duck Island Bluff  
Duck Island Harbor  
East Beach  
East Fort Point  
East Neck  
Eatons Neck  
Eatons Neck Basin  
Eatons Neck Point  
Fleets Cove  
Fort Hill  
Fresh Pond  
Halesite  
Hobart Beach  
Huntington  
Huntington Bay  
Huntington Bay (locality)  
Huntington Beach (locality)  
Huntington Harbor  
Inner Harbor  
Laurel Hollow  
Little Neck  
Little Neck Point  
Lloyd Beach  
Lloyd Harbor  
Lloyd Harbor (locality)  
Lloyd Neck  
Lloyd Point  
Long Island Sound

Mill Pond  
Northport  
Northport Basin  
Northport Bay  
Northport Harbor  
Northwest Bluff  
Oyster Bay  
Price Bend  
Sand City Island  
Sand Hole, The  
Tanger Rock  
Walnut Neck  
West Beach  
West Neck  
West Neck Beach  
Whitewood Point  
Wincoma  
Wincoma Point  
Winkle Point

Approved:



Charles E. Harrington  
Chief Geographer  
Nautical Charting Division  
Charting and Geodetic Services

REVIEW REPORT  
SHORELINE

TP-01271

61. GENERAL STATEMENT:

See Summary included with this descriptive report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with T-12389 and T-12391, both dated November 1969, and T-12392 dated September 1969; all three are 1:10,000 and part of project PH-6603.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangles:

Greenlawn, New York, dated 1967, photorevised 1979,  
Huntington, New York, dated 1967, photorevised 1979,  
Lloyd Harbor, New York-Connecticut, dated 1967,  
Northport, New York, dated 1967, photorevised 1979;  
all four are 1:24,000 scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Not applicable. This map will be registered as a Class III Final Map.

65. COMPARISON WITH NAUTICAL CHARTS:

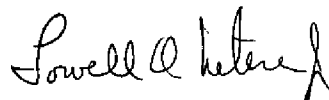
A comparison was made with the following NOS Charts:

12363, 32nd edition, dated October 18, 1986, scale 1:80,000  
12364, 25th edition, dated January 10, 1987, scale 1:40,000  
12365, 19th edition, dated March 10, 1987, scale 1:20,000

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:



Lowell O. Neterer, Jr.  
Final Reviewer  
August 14, 1987

Approved for forwarding:

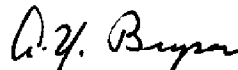


Billy H. Barnes  
Chief, Quality Assurance Group, AMC

Approved:



Chief, Photogrammetric Production Sec.



Chief, Photogrammetry Branch

## CHARTED LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

PAGE 1 OF 2

PROJECT NUMBER: CM-8312

PROJECT NAME: Western Long Island Sound, Throgs Neck, NY  
to Saugatuck River, CT

MAP NUMBER: TP-01271

SCALE: 1:20,000

DATUM: N.A. 1927

The following charted landmarks and nonfloating aids to navigation have been measured and/or confirmed during photogrammetric operations. All geographic positions are based on the N.A. 1927 Datum. Refer to Nautical Charting Division Standard Digital Data Exchange Format documentation for clarification of NCD Quality (Q.C.) and Cartographic (CARTO) Codes.

<u>FEATURE DESCRIPTION</u>	<u>NCD CODE</u>	<u>GEOGRAPHIC POSITION</u> <u>LATITUDE</u> <u>LONGITUDE</u>	<u>NCD Q.C.</u>	<u>DATE OF LOCATION</u>
COLD SPRING HARBOR LIGHT ✓	200 ✓	40 54 50.70 ✓ - 73 29 37.00 ✓	7 ✓	6/21/84 ✓
LLOYD HARBOR LIGHT ✓	200 ✓	40 54 38.30 ✓ - 73 25 54.40 ✓	7 ✓	6/21/84 ✓
EATONS NECK LIGHT ✓	139 ✓	40 57 14.00 ✓ - 73 23 45.36 ✓	3	6/21/84 ✓
TOWER ✓	86 ✓	40 53 32.30 ✓ - 73 28 12.80 ✓	7 ✓	6/21/84 ✓
DOMES ✓	86 ✓	40 54 18.30 ✓ - 73 28 16.80 ✓	7 ✓	6/21/84 ✓
TANK ✓	86 ✓	40 55 22.90 ✓ - 73 29 37.40 ✓	7 ✓	6/21/84 ✓
HOUSE ✓	86 ✓	40 55 59.40 ✓ - 73 29 32.30 ✓	7 ✓	6/21/84 ✓
CUPOLA ✓	86 ✓	40 53 51.00 ✓ - 73 26 12.20 ✓	7 ✓	6/21/84 ✓
TANK ✓	86 ✓	40 52 03.80 ✓ - 73 26 41.20 ✓	7 ✓	6/21/84 ✓
TANK ✓	86 ✓	40 53 27.90 ✓ - 73 24 40.20 ✓	7 ✓	6/21/84 ✓
TANK ✓	139 ✓	40 53 56.71 ✓ - 73 23 53.29 ✓	3 ✓	6/21/84 ✓

Listing approved by:

Powell O. Hetherington  
FINAL REVIEWER

Aug 14, 1987  
DATE



CHARTED LANDMARKS AND NONFLOATING AIDS TO NAVIGATION  
CM-8312

TP-0127X1

PAGE 2 OF 2

<u>FEATURE DESCRIPTION</u>	<u>NCD CODE</u>	<u>GEOGRAPHIC POSITION</u> <u>LATITUDE</u> <u>LONGITUDE</u>	<u>NCD Q.C.</u>	<u>DATE OF LOCATION</u>
CUPOLA ✓	86 ✓	40 53 39.00 ✓ - 73 22 07.80 ✓	7 ✓	6/21/84 ✓
CUPOLA ✓	86 ✓	40 54 22.60 ✓ - 73 22 10.30 ✓	7 ✓	6/21/84 ✓
FLAGPOLE ✓	86 ✓	40 54 03.70 ✓ - 73 21 39.10 ✓	7 ✓	6/21/84 ✓
FLAGPOLE ✓	86 ✓	40 54 03.00 ✓ - 73 21 12.20 ✓	7 ✓	6/21/84 ✓
STACK 1 OF 4 NORTHMOST ✓	86 ✓	40 55 25.72 ✓ - 73 20 38.69 ✓	4 ✓	6/21/84 ✓
STACK 2 OF 4 ✓	86 ✓	40 55 23.80 ✓ - 73 20 38.00 ✓	7 ✓	6/21/84 ✓
STACK 3 OF 4 ✓	86 ✓	40 55 21.40 ✓ - 73 20 37.50 ✓	7 ✓	6/21/84 ✓
STACK 4 OF 4 SOUTHMOST ✓	86 ✓	40 55 19.20 ✓ - 73 20 36.80 ✓	7 ✓	6/21/84 ✓
TANK TWIN A, 1930 ✓	139 ✓	40 55 54.45 ✓ - 73 27 59.41 ✓	3 ✓	6/21/84 ✓
TANK TWIN B, 1930 ✓	139 ✓	40 55 54.07 ✓ - 73 27 59.34 ✓	3 ✓	6/21/84 ✓
TANK ✓	86 ✓	40 53 11.10 ✓ - 73 25 06.00 ✓	7 ✓	6/21/84 ✓
STANDPIPE ✓	86 ✓	40 52 57.90 ✓ - 73 20 27.60 ✓	7 ✓	6/21/84 ✓
STANDPIPE ✓	86 ✓	40 52 33.80 ✓ - 73 22 15.50 ✓	7 ✓	6/21/84 ✓
RTR NEW N.W. 1 OF 4 ✓	993 ✓	40 51 07.70 ✓ - 73 26 20.60 ✓	7 ✓	6/21/84 ✓
RTR 2 OF 4 ✓	86 ✓	40 51 05.70 ✓ - 73 26 16.80 ✓	7 ✓	6/21/84 ✓
RTR 3 OF 4 ✓	86 ✓	40 51 03.60 ✓ - 73 26 13.40 ✓	7 ✓	6/21/84 ✓
RTR S.E. 4 OF 4 ✓	86 ✓	40 51 01.60 ✓ - 73 26 10.20 ✓	7 ✓	6/21/84 ✓

Listing approved by:

FINAL REVIEWER

DATE

