

11192

Diag. Cht. No. 1208-2.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-116 Office No. T-11192

### LOCALITY

State Massachusetts

General locality Cape Cod Bay

Locality Scorton Harbor

1953 1951-1954<sup>5</sup>

### CHIEF OF PARTY

E. H. Kirsch, Chief of Field Party  
William F. Deane, Baltimore District Officer

### LIBRARY & ARCHIVES

DATE January 2, 1966

COMM-DC 61300

2611

# DATA RECORD

①

T-11192

Project No. (II): Ph-116

Quadrangle Name (IV):

Field Office (II): Plymouth, Mass.

Chief of Party: E. H. Kirsch

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: William F. Deane

Instructions dated (II) (III):  
 30 April 1953  
 9 June 1953 (Supplement 1)  
 9 July 1953 (Supplement 2)  
 11 July 1953 (Supplement 3)  
 10 July 1953 (Letter 70-lmh)  
 22 Nov 1957

Copy filed in Division of  
 Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): M.H.W.

Mean sea level except as follows:  
 Elevations shown as (25) refer to mean high water  
 Elevations shown as (5) refer to sounding datum  
 i.e., mean low water or mean lower low water

Reference Station (III): SCORTON, 1934

Lat.: 41° 42' 31.868" (983.2 m) Long.: 70° 25' 37.096" (857.6 m)

Adjusted  
~~Uncorrected~~

Plane Coordinates (IV):

State: Mass.

Zone: Mainland

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

②


SHORELINE

Areas contoured by various personnel  
(Show name within area)  
(II) (III)

# DATA RECORD

(3)

Field Inspection by (II): B. F. Lampton, Jr.

Date: August 1953

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): August 1953 inspection on Oct. 1951 photographs - verified and corrected by office interpretation of Nov. 1955 photographs (taken at high tide).

Projection and Grids ruled by (IV): J. Thuma

Date: 7/13/53

Projection and Grids checked by (IV): H. D. Wolfe

Date: 7/14/53

Control plotted by (III): J. C. Cregan

Date: 10/27/55

Control checked by (III): H. R. Rudolph

Date: 10/27/55

Radial Plot or Stereoscopic  
Control extension by (III):  
H. R. Rudolph and  
E. L. Williams

Date: 11/7/55

Stereoscopic Instrument compilation (III):  
Planimetry  
Contours

Date:

Date:

Manuscript delineated by (III): J. Honick  
J. Council

Date: 3/31/59

Photogrammetric Office Review by (III): R. Glaser

Date: 5/8/59

Elevations on Manuscript  
checked by (II) (III):

Date:



Camera (kind or source) (III):

1. FMA Photographs
2. C&GS "W" Camera

(4)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
DPL 2 K 3 thru 2 K 6	10/22/51	1023	1:10,000	2.0
DPL 2 K 20 thru 2 K 23	"	1036	"	2.1
DPL 2 K 29 thru 2 K 32	"	1041	"	2.1
DPL 2 K 52 thru 2 K 55	"	1107	"	2.3
54 W 1330 thru 1336	4/24/54	1543	"	Interior
55 W 2488 thru 2491	11/15/55	1200	"	9.9

Tide (III)  
From Predicted Tables

Reference Station: Boston

Subordinate Station: Cape Cod Canal Ent. (N)

Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	9.5	11.0
	9.4	10.9

Washington Office Review by (IV): S.G. Blankenbaker

Date: July 23, 1965

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 14

Shoreline (More than 200 meters to opposite shore) (III): 3.2 mi.

Shoreline (Less than 200 meters to opposite shore) (III): 5 mi.

Control Leveling - Miles (II): none

Number of Triangulation Stations searched for (II):

77 20 Recovered:

11 Identified:

10\*

Number of BMs searched for (II):

0 Recovered:

0 Identified:

0

Number of Recoverable Photo Stations established (III): One

Number of Temporary Photo Hydro Stations established (III):

Remarks:

\*Includes one RM of lost station.

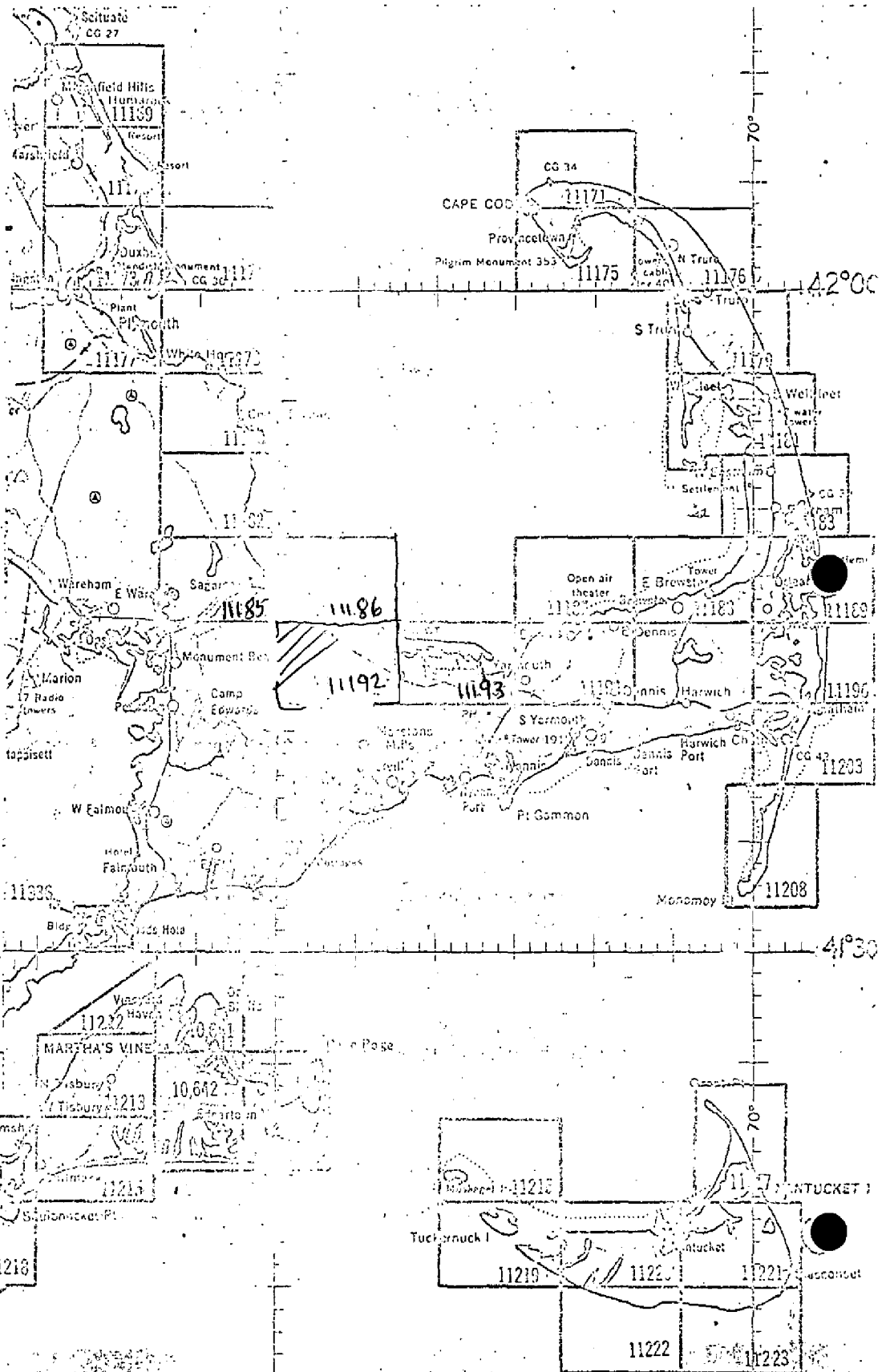
# SHORELINE MAPPING PROJECT PH-116

## CAPE COD, MASS.

5

1 Village and Coast Accounts  
 111.11. 111.11. 111.11.  
 Shoreline 111.11.

24 11  
 12 16  
 10 7  
 10 12  
 6 1  
 18 5  
 12 10  
 14 10  
 4 2  
 15 18  
 9 15  
 31 12  
 7 12  
 23 12  
 3 17  
 6 3  
 5 2  
 13 9  
 20 12  
 5 19  
 32 13  
 7 15  
 14 6  
 24 3  
 14 3  
 12 4  
 7 22  
 22 7  
 25 14  
 5 1  
 22 3  
 9 2  
 12 2  
 24 17  
 20 21  
 6 2  
 7 4  
 7 1  
 18 10  
 12 25  
 10 10  
 607 111.11. 111.11. 111.11.



Summary to Accompany Descriptive Report  
T-11192

T-11192 is one of 40 similar surveys comprising project PH-116. Project coverage includes: (1) Cape Cod Bay shoreline; (2) the entire east shore of Cape Cod; and (3) the islands of Martha's Vineyard and Nantucket. Subject map coverage includes Scorton Harbor and a small portion of adjacent Cape Cod Bay shoreline.

## 2. AREAL FIELD INSPECTION

The Cape Cod Bay shore is a sandy beach, backed by dunes. There are several low ridges or "necks" behind the shore. The area between the necks are mostly marsh. South of this area is the central ridge of Cape Cod. The central ridge is a dune formation, heavily wooded, with a number of lakes but no perennial drainage.

The sheet is crossed by the New York, New Haven and Hartford Railroad, and U. S. Highways 6 and 6A. There are no prominent settlements but there is considerable scattered population between the central ridge and the shore.

Scorton Harbor is a little used entrance, usable by shallow draft boats only.

Field inspection is believed to be complete. The quality of the photographs is adequate. Field work was done on photographs DPL-2K-2 through DPL-2K-6, DPL-2K-20 through DPL-2K-24, DPL-2K-29, DPL-2K-30, DPL-2K-32, and DPL-2K-52 through DPL-2K-54.

## 3. HORIZONTAL CONTROL

All Coast and Geodetic Survey horizontal control stations were searched for. Station 56N MGS was not searched for. The following Massachusetts Geodetic Survey stations were recovered: 56J, 92F, 92G, 92H. The order of accuracy of these stations is unknown.

The following stations have been reported as lost on Form 526: TON 1940; SPRING 1940; PAYNE 2 1940; BARNSTABLE SANDWICH (WM) BARNSTABLE CORNER 6 1887; PINK CUPOLA 1909; BARNSTABLE WEST CHURCH SPIRE 1848; WEST BARNSTABLE CHURCH SPIRE 1934; NG 24 MGS; 56K MGS; 56M MGS.

At station TON 1940, Reference Mark No. 1 was identified. It was possible to identify WEST BARNSTABLE CHURCH SPIRE 1934 directly on the photographs as the station was still in good condition at the time of photography.

## 4. VERTICAL CONTROL

There are no tidal bench marks within the sheet. No other vertical control is required by the project instructions.

## 5. CONTOURS AND DRAINAGE

Contours inapplicable. All drainage is tidal in marsh. No perennial drainage above marsh level was observed during field inspection.



6. WOODLAND COVER

Inapplicable.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line along the beach is visible as a line of debris and has been indicated at intervals on the field photographs. The stage of tide at time of photography was too high to permit identification of the low water line.

The foreshore is mostly sand with some rocks. There are no bluffs or cliffs prominent enough to be landmark features.

There are no wharves, piers or similar shoreline structures.

8. OFFSHORE FEATURES

There are none.

9. LANDMARKS AND AIDS

One landmark has been reported on Form 567. There are no aids to navigation.

10. BOUNDARIES, MONUMENTS AND LINES

Inapplicable.

11. OTHER CONTROL

One recoverable topographic station, TREE 1953, has been established in the sheet.

12. OTHER INTERIOR FEATURES

At time of field inspection, construction of two additional lanes paralleling U. S. Highway No. 6 was well under way. None of this construction appears on the photographs. The construction should be complete in late 1953 and information for the location of the new lanes will be obtained during the 1954 working season in conjunction with the revision of the U.S.G.S. Sandwich Quadrangle. The construction of the new lanes is to the south of the present highway and will not affect its alignment except that there will no doubt be some rearrangement of the cloverleaves on the south side.

The construction of the cloverleaves along the highway places them in Class 2.

13. GEOGRAPHIC NAMES

No discrepancies in geographic names were noted during field work.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Letter of Transmittal No. Ph-116-2, Forms 567, Landmarks and Aids to Navigation, to be forwarded to Washington Office at a later date.

Letter of Transmittal No. Ph-116-10, Data, Map T-11192, forwarded to Washington Office ~~11 September~~ 1953.

22 October

Submitted  
8 September 1953

*B. Frank Lampton, Jr.*  
B. Frank Lampton, Jr.  
Cartographic Survey Aid

Approved & Forwarded  
11 September 1953

*E. H. Kirsch*  
E. H. Kirsch  
Chief of Party *by LFW*

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
DESCRIPTIVE REPORT  
CONTROL RECORD

MAP T 11192

PROJECT NO Ph-116

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $\alpha$ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
SCORTON HILL RED ROOF HOUSE CHIMNEY, 1909	G 3723 P. 212	N.A. 1927	41 43 13.636	<del>46.364</del>			420.7	(1430.4)	
			70 23 52.035	<del>7.965</del>			1202.8	( 184.1)	
BARNSTABLE SAND- WICH LINE, 1934	G 3692 P. 149	"	41 42 13.893	<del>46.107</del>			428.6	(1422.5)	
			70 25 10.456	<del>49.544</del>			241.8	(1145.5)	
TON, 1940	G 6928 P. 442	"	41 44 51.476	<del>8.524</del>			1588.1	( 263.0)	
			70 25 39.161	<del>20.839</del>			904.9	( 481.5)	
SCORTON, 1934	G 3548 P. 130	"	41 42 31.868	<del>28.132</del>			983.2	( 867.9)	
			70 25 37.096	<del>22.904</del>			857.6	( 529.5)	
SCORTON NECK TOWER, 1934	G 3692 P. 148	"	41 44 16.429	<del>43.531</del>			506.9	(1344.2)	
			70 25 10.937	<del>49.063</del>			252.7	(1133.8)	
TEL. HILL, 1934	G 3156 P. 105	"	41 44 00.452	<del>59.548</del>			13.9	(1837.2)	
			70 29 12.066	<del>47.934</del>			278.9	(1107.8)	
92F, MGS, 1936	M.G.S. P. 64	"	272,103.80	2103.80	2896.20		641.2	( 882.8)	
			885,848.32	848.32	4151.68		253.6	(1265.4)	
92G, MGS, 1936	M.G.S. P. 64	"	271,521.11	1521.11	3478.89		463.6	(1060.4)	
			886,909.32	1909.32	3090.68		582.0	( 942.0)	
92H, MGS, 1937	"	"	265,253.56	253.56	4746.44		77.3	(1446.7)	
			896,183.31	1183.31	3816.69		360.7	(1163.3)	
56J, MGS, 1935	"	"	257,525.46	2525.46	2474.54		769.8	( 754.2)	
			874,211.41	4211.41	788.59		1283.6	( 240.4)	

1 FT. = 3048006 METER

COMPUTED BY N. Wedemeyer

DATE 12 July 1954

CHECKED BY J. W. Vonasek

DATE 8/18/54

COMM. DC-5784

MAP T. 11192 PROJECT NO. Ph-116 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\phi$ -COORDINATE LONGITUDE OR $\lambda$ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
Sub. Pt. 92G, MGS, 1936		N.A. 1927	271,501.99	1501.99	3498.0		457.8	1066.2		
			887,120.46	2120.46	2879.54		646.3	877.7		
Sub. Pt. 56J, MGS, 1935		"	257,528.47	2528.47	2471.53		770.7	753.3		
			874,250.19	4250.19	749.81		1295.5	228.5		
Sub. Pt. 92H, MGS, 1937		"	265,362.99	362.99	4637.01		110.6	1413.4		
			896,096.00	1096.00	3904.00		334.1	1189.9		
Sub. Pt. BARNSTABLE SANDWICH LINE, 1934		"	41 42				484.6	1366.5		
			70 25				188.5	1198.8		
PAYNE 2, 1940	G 6928 p. 442	"	41 44 20.090				619.8	1231.3		
			70 22 55.820				1289.9	96.6		
SPRING, 1940	"	"	41 44 33.582				1036.1	815.0		
			70 24 22.530				520.6	865.8		
56N, MGS, 1935	MGS p. 64	"	267,284.22	2284.22	2715.78		696.2	827.8		
			875,434.45	434.45	4565.55		132.4	1391.6		
TON, R.M. 1, 1940	"	"	41 44				1555.3	295.8		
			70 25				935.7	450.7		
Sub. Pt. TON, R.M. 1, 1940	"	"	41 44				1542.9	308.2		
			70 25				979.4	407.0		
Sub. Pt. SCORTON, 1934	"	"	41 42				961.5	889.6		
			70 25				860.2	526.9		
WEST BARNSTABLE CHURCH SPIRE, 1934	G 3692 p. 150	"	41 41 54.245				1673.6	177.5		
			70 23 03.555				82.2	1305.1		

1 FT. = 3048006 METER

COMPUTED BY: N. Wedemeyer

DATE 12 July 1954

CHECKED BY: J. W. Vonasek

DATE 18 August 1954

COM-DC-5784



COMPILATION REPORT  
T-11192

The photogrammetric plot report covering the area of this survey is part of Descriptive Report T-11182.

31. DELINEATION

Graphic methods were used to delineate the manuscript.

The interior skeleton compilation was continued southward from the shoreline to the new highway, U.S. 6. (See item 4 of revised instructions dated 22 November 1957).

32. CONTROL

The identification, density and placement of horizontal control was satisfactory.

33. SUPPLEMENTAL DATA

The U. S. Geological Survey, Sandwich, Mass., quadrangle was used for geographic names.

34. CONTOURS AND DRAINAGE

Contours: Not applicable.  
Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

The offshore limits of sand (approximately MLWL) shown on the manuscript was office interpreted from photographs which were computed to be 2-feet above MLW.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

One landmark, the tower at triangulation station TEL HILL, 1934 appears on the manuscript but no Form 567 was available for it in the compilation office. (See item 9 of field inspection report).

There are no aids to navigation.

38. CONTROL FOR FUTURE SURVEYS

Form 524 for recoverable topographic station TREE, 1953 is being submitted with this report.

The station is listed under item 49.

39. JUNCTIONS

Junctions have been made and are in agreement with:  
T-11186 to the north.  
T-11193 to the east.

No contemporary surveys to the west and to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 thru 45. Not applicable.

46. COMPARISON WITH EXISTING MAPS

1. U.S.G.S. Sandwich, Mass., quadrangle, scale 1:31,680, edition of 1943, reprinted in 1948 with corrections.

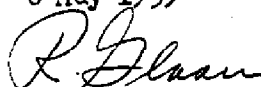
47. COMPARISON WITH NAUTICAL CHARTS

Chart 1208, scale 1:80,000, published May 1, 1942 and revised to June 10, 1957.

Items to be applied to nautical charts immediately: None.

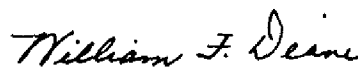
Items to be carried forward: None.

Respectfully submitted:  
8 May 1959



R. Glaser  
Carto. (Photo.)

Approved and Forwarded

  
William F. Deane,  
CDR, C&GS  
Baltimore District Officer

49. NOTES FOR THE HYDROGRAPHER

One recoverable topographic station, TREE, 1953 appears on the manuscript.

(15)

Review Report  
T-11192  
July 1965

62. Comparison with Registered Bureau Surveys

T-901	1:10,000	1860-61
T-6123	1:10,000	1934

This survey supersedes the prior Bureau surveys for charting purposes in the common area.

63. Comparison with Maps of Other Agencies

USGS quadrangle Sandwich, Mass. 1:24,000 1957

No significant differences were noted.

64. Comparison with Contemporary Hydrographic Surveys

Inapplicable

65. Comparison with Nautical Charts

1208 1:80,000 Revised 1963

No page indicating application to the chart has been included in the subject Descriptive Report. Both the new survey and the USGS quad (item 63) show interior details (new roads, road changes, etc.) that have not been applied to the chart.

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and Bureau requirements.

Reviewed by

S. G. Blankenbaker  
S. G. Blankenbaker

Approved by:

Charles J. Hemm  
Chief, Photogrammetric Branch  
LCH

L. J. Woodcock  
Chief, Photogrammetry Division

Chief, Nautical Chart  
Division



5-8-59

(16)

50-

PHOTOGRAMMETRIC OFFICE REVIEW

T-11192

1. Projection and grids ☒ 2. Title ☒ 3. Manuscript numbers ☒ 4. Manuscript size ☒

4a. Classification label ☒

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ☒ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ☒ 7. Photo hydro stations ☒ 8. Bench marks ☒ 9. Plotting of sextant fixes ☒ 10. Photogrammetric plot report ☒ 11. Detail points ☒

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ☒ 13. Low-water line ☒ 14. Rocks, shoals, etc. ☒ 15. Bridges ☒ 16. Aids to navigation ☒ 17. Landmarks ☒ 18. Other alongshore physical features ☒ 19. Other along-shore cultural features ☒

PHYSICAL FEATURES

20. Water features ☒ 21. Natural ground cover ☒ 22. Planetable contours ☒ 23. Stereoscopic instrument contours ☒ 24. Contours in general ☒ 25. Spot elevations ☒ 26. Other physical features ☒

CULTURAL FEATURES

27. Roads ☒ 28. Buildings ☒ 29. Railroads ☒ 30. Other cultural features ☒

BOUNDARIES

31. Boundary lines ☒ 32. Public land lines ☒

MISCELLANEOUS

33. Geographic names ☒ 34. Junctions ☒ 35. Legibility of the manuscript ☒ 36. Discrepancy overlay ☒ 37. Descriptive Report ☒ 38. Field inspection photographs ☒ 39. Forms ☒

40. R. J. G. G. G.  
Reviewer

Joseph H. H. H.  
Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler

Supervisor

43. Remarks:

48. GEOGRAPHIC NAME LIST

Barnstable County  
Beach Road

Cape Cod Bay  
Centre Street  
Chase Road  
Church Street  
Crooked Way

Doughnut Pond

East Sandwich  
Elephantback Hill  
Eel Creek

Finnish Lutheran Church  
Freeman Cemetery  
Fullers Point

Gar Highway  
Great Marshes

High Street  
Howland Lane  
Hoxie Pond

Jones Lane

Maple Street  
Mass. 130 (hwy)  
Mass. 149 (hwy)  
Meadow Street  
Mill Pond

New York New Haven and Hartford (RR)  
Nye Pond

Old County Road  
Old Quaker Meetinghouse  
*Pine Street*  
Plowed Neck

Quaker Meetinghouse Road

Sandy Neck  
Sandy Neck Road  
Scorton Creek  
Scorton Harbor  
\* Scorton Harbor Creek *OKa/w*  
Scorton Hill  
Scorton Neck

\* From Chart No. 1208  
~~Disagrees with Sandwich quad.~~

Smiths Creek  
Spring Hill  
Springhill Beach  
State Fish Hatchery  
State Game Hatchery

Telegraph Hill  
The Springs

U. S. 6 (hwy)  
U. S. 6A (hwy)

Water Street  
West Barnstable  
West Main Street  
Willow Street  
Wing Blvd.  
West Parish Meetinghouse

*Names checked + approved  
7-23-65  
A. J. Wraight*

