

11171

Diag. Cht. Nos. 1207-2 & 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-11171
LOCALITY	
State	Massachusetts
General locality	Cape Cod Bay
Locality	Race Point
1951 1952-1954	
CHIEF OF PARTY	
Lorin F. Woodcock, Chief of Field Party	
William F. Deane, Baltimore District Officer	
LIBRARY & ARCHIVES	
DATE	January 2, 1966

COMM-DC 61300

11171

DATA RECORD

T-11171

①

Project No. (II): **Ph-116**

Quadrangle Name (IV):

Field Office (II): **Plymouth, Mass.**

Chief of Party: **Lorin F. Woodcock**

Photogrammetric Office (III): **Baltimore, Md.**

Officer-in-Charge: **William F. Deane**

Instructions dated (II) (III):
 30 April 1953
 9 June 1953 (Supp.1)
 9 July 1953 (Supp.2)
 11 July 1953 (Supp.3)
 10 July 1953 (Letter 70-1mh)
 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): **17 SEP 1959**

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): **MHW**

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): **MOUNT GILBOA 3, 1940**

Lat: **42° 03' 53.731" (1657.8 m)** Long.: **70° 09' 30.899" (710.4 m)**

Adjusted
~~Casey Jones~~

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): **W. M. Reynolds**

Date: **Oct. 1953**

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):

Oct. 1953 - Field inspection on 1952 PMA photography, and April, 1955 photographs.

Projection and Grids ruled by (IV): **A. Riley**

Date: **2/16/54**

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

Date: **2/26/54**

Control plotted by (III): **D. Williams**

Date: **7/18/55**

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

Date: **8/5/55**

Radial Plot ~~and Stereoscopic~~

Date:

~~and Stereoscopic~~ by (III): **(See Compilation Report, 1st paragraph)**

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

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

Date: **5/6/59**

Photogrammetric Office Review by (III): **R. Glaser**

Date: **6/1/59**

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

Date:

Camera (kind or source) (III): C&GS "W" Camera & PMA Photography

(4)

Number	Date	Time	Scale	Stage of Tide
54-W-1284-1288	4/24/54	1510	1:10,000	7.7' above MLW
54-W-1291	"	1512	"	7.7' " "
DPL-5K-33	7/25/52	1257	"	(not needed)
5K-39840	"	1307	"	" "
5K-50	"	1312	"	8.6' above MLW
5K-56	"	1320	"	(not needed)

Tide (III)
From predicted tide tables

Reference Station: BOSTON
Subordinate Station: Race Point
Subordinate Station: Provincetown

Ratio of Ranges	Mean Range	Spring Range
	9.5	11.0
	9.0	10.4
	9.1	10.6

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

Date: July, 1965

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 4

Shoreline (More than 200 meters to opposite shore) (III): 1.9 mi

Shoreline (Less than 200 meters to opposite shore) (III): 1.4 mi.

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 12 Recovered: 7 Identified: 4

Number of BMs searched for (II): 3 Recovered: 3 Identified:

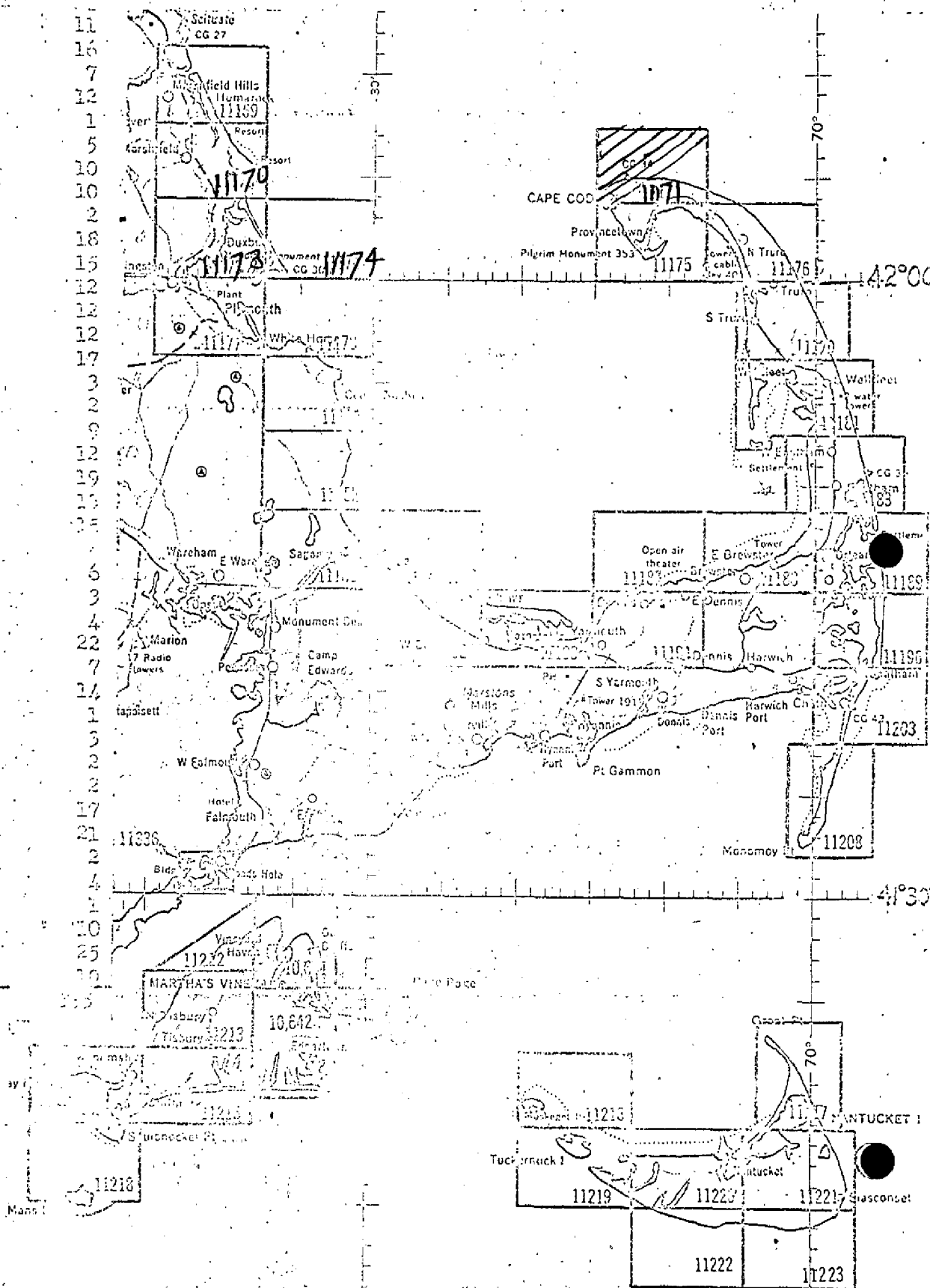
Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

3

24	11
12	16
10	7
26	12
6	1
18	5
12	10
14	10
4	2
15	18
9	15
31	12
7	12
23	12
8	17
6	3
5	2
13	9
20	12
5	19
32	13
7	25
14	7
24	6
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
40	10



Summary to Accompany Descriptive Report
T-11171

T-11171 is one of 40 similar surveys comprising Project Ph-116. Project coverage includes, (1) Cape Cod Bay shoreline, (2) Approximately $\frac{1}{2}$ of the east shore of Cape Cod, and (3) the islands of Martha's Vineyard and Nantucket. The subject map covers Cape Cod north of Provincetown. A portion of the MHW and adjacent inshore features were not compiled - refer to page 11, side heading 31 of this Descriptive Report.

2. AREAL FIELD INSPECTION

The land area of this sheet consists of the northern part of the extreme western end of Cape Cod. It is covered by large shifting sand dunes and is undeveloped except for scattered cottages along the Atlantic Ocean beach.

The area is strictly a summer resort and has no industrial locations.

Two Coast Guard Stations, Race Point and Peaked Hill Bars, are located here. Race Point remains active, while Peaked Hill Bars has been abandoned.

Field inspection is believed complete and was performed on the following photographs: DPL-5K-39, 40, 50, 51, 55, and 56. Photography was of good quality and fairly recent date. No difficulty was encountered in their interpretation in the field.

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey control was searched for and where recovered was identified, with this exception. In the southeast corner of the sheet a plethora of control existed and a selected few stations were identified.

One third-order traverse station, 153Y, established by the Mass. Geodetic Survey was recovered and identified.

The following stations were reported lost: RACE 1887; RACE POINT COAST GUARD SIGNAL MAST 1933; TRURO COR 4 1887; TRURO COR 5 1887; and TRURO COR 7 1887.

4. VERTICAL CONTROL

Three tidal bench marks were recovered: PEAKED HILL BAR TIDAL BM 2(1933); PEAKED HILL BAR TIDAL BM 3(1933); and PEAKED HILL BAR TIDAL BM 5(1949).

No vertical control was established.

5. CONTOURS AND DRAINAGE

Contouring was not a part of the work requirements for this project.

There is no perennial drainage in the area.

6. WOODLAND COVER

Inapplicable.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was inspected by riding and walking along the beach. The line shows on the photographs as a fine beach line. It has been indicated at intervals on the photographs.

The stage of tide was near high water at time of photography, making it impractical to attempt to indicate the low water line.

The foreshore throughout this sheet is relatively steep and the low water line would be fairly close to the mean high water line.

There are no bluffs or cliffs in the area.

There are no docks, wharves, piers, or landings in the area.

There are no submarine cables.

8. OFFSHORE FEATURES

There are none.

9. LANDMARKS AND AIDS

One Three landmarks were recommended for deletion, ~~and one was retained.~~
No new landmarks were recommended for charting. ^{was}

All necessary information will be found on Form 567.

There are no fixed aids to navigation.

10. BOUNDARIES, MONUMENTS AND LINES

Inapplicable.

11. OTHER CONTROL

NONE

(Race Point Coast Guard Lookout Tower was identified for location by radial plot.)

12. OTHER INTERIOR FEATURES

All roads have been classified in accordance with Geological Survey, Topographic Instructions, Chapter 3A1.

All buildings were inspected in accordance with Paragraph 5446 of the Topographic Manual.

There are no bridges or cables over navigable waters.

Provincetown Municipal Airport is located in the area. This airport consists of one macadam runway approx. 3500 feet in length. Light and medium weight aircraft use the field for take-offs and landings.

13. GEOGRAPHIC NAMES

No discrepancies in charted names were noted and no new names are recommended.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

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

Letter of Transmittal No. Ph-116-23, Data, Map T-11171, forwarded to Washington Office **OCT 26 1953**

Submitted
23 October 1953

William M. Reynolds
William M. Reynolds
Carto. Survey Aid

Approved & Forwarded
OCT 26 1953

Lorin F. Woodcock
L. F. Woodcock
Lorin F. Woodcock
Chief of Party

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

MAP T. 11171

PROJECT NO. Ph-116

SCALE OF MAP 1:10,000

SCALE FACTOR 1,000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR χ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
PEASED HILL BARS COAST GUARD SIGNAL MAST, 1933	G-3711 P. 204	N.A. 1927	42 04 31.75 70 09 34.67			979.6 871.6 797.0 582.3	
153 Y MGS, 1940	M.G.S. P. 10	"	395,163.13 948,190.28	163.13 4836.87 3190.28 1809.72		49.7 1474.3 972.4 551.6	
TRURO COR. 3, 1887	G-3694 P. 196	"	42 03 49.576 70 08 52.111			1529.6 321.6 1205.0 174.5	
PROVINCETOWN TRURO 2 (W.M. No. 1) P. 190 (TRURO CORNER-6) 1887	G-3694 P. 190	"	42 04 00.97 70 08 53.71			29.9 1821.3 1234.8 144.6	
OCEAN VIEW (U.S.E.) 1920	G-3153 P. 104	"	42 04 26.316 70 12 20.798			812.0 1039.3 478.1 901.1	
TRURO CORNER 2, 1887	G-3694 P. 192	"	42 03 48.574 70 08 52.440			1498.7 352.5 1205.7 173.8	
Sub. Pt. 153Y M.G.S., 1940		"	395,164.02 948,139.29	164.02 4835.98 3139.29 1860.71		50.0 1474.0 956.9 567.1	
TRURO CORNER 4, 1887	G-3694 P. 190	"	42 03 52.08 70 08 50.91			1606.9 214.4 1170.5 209.0	
TRURO CORNER 5, 1887	"	"	42 03 52.32 70 08 50.79			1614.3 237.0 1167.8 211.8	
MOUNT GILBOA 3, 1940	G-4825 P. 341	"	42 03 53.731 70 09 30.899			1657.8 193.4 710.4 669.1	6

1 FT. = 3048006 METER

COMPUTED BY N. Wedemeyer

DATE

7 July 1954

CHECKED BY

B. Kura

DATE

27 July 1954

COMM-DC-57643

COMPILATION REPORT
T-11171

A normal photogrammetric plot was not necessary. Photographs were fixed by sufficient control on this survey and on T-11175 and the centers and pass points were established directly with photographs under the map projection. No bridging was required since each photograph had a fix on control, or on control and pass points established by other fixed photographs.

31. DELINEATION

Graphic methods were used to delineate this manuscript.

The shoreline and the interior compilation was delineated to a line just north of Highway U.S. No. 6 and Race Point Road. (see revised project instructions dated 22 November 1957, paragraph 4)

32. CONTROL

The identification, density and placement of control was adequate.

33. SUPPLEMENTAL DATA

The U. S. G. S. Provincetown, Mass., quadrangle was used for geographic names.

34. CONTOURS AND DRAINAGE

Contours: Inapplicable.
Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

36. OFFSHORE DETAILS

No offshore details on this manuscript.

37. LANDMARKS AND AIDS

Form 567 has been submitted for one landmark to be charted. The field party has submitted Form 567 for three landmarks to be deleted.

38. CONTROL FOR FUTURE SURVEYS

None established.

39. JUNCTIONS

Junction is in agreement with T-11175 to the south. An all water area to the north and west. No contemporary survey to the east.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 - 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U. S. G. S. Quadrangle, Provincetown, Mass., scale 1:31,680, edition of 1944 revised 1949, and Bureau Survey T-5731(1943), scale 1:10,000.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart No. 580, scale 1:20,000, published December 1944 (2nd edition) corrected to 12/23/52.

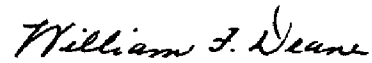
Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted
7 May 1959


Jack Honick
Carto. Photo. Aid

Approved and forwarded


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

Review Report
T-11171
July 1965

62. Comparison with Registered Bureau Surveys

T-5731 1:10,000 1943

A portion of the MHW line and adjacent inshore features were not compiled - refer to the Compilation Report, page 11, side heading 31. The new survey supersedes the prior survey in the common area.

63. Comparison with Maps of Other Agencies

USGS quad, Provincetown, Mass. 1:24,000 1958

No significant differences were noted.

64. Comparison with Contemporary Hydrographic Surveys

Inapplicable

65. Comparison with Nautical Charts

580 1:20,000 revised 6/18/65

The form indicating application of subject map to Nautical Charts has not been inserted in this Descriptive Report.

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy. One portion of the land area falling within the limits of T-11171 was not mapped. This omission is in accordance with instructions dated November 22, 1957, paragraph 4.

Reviewed by:

S. G. Blankenbaker
S. G. Blankenbaker

Approved by:

Samuel H. ...
Chief, Photogrammetric Branch
h e h.

L. J. Woodcock
Chief, Photogrammetry Division

Chief, Nautical Chart Division

6-1-59

14

50-

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11171

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

6a. 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. Glaser
Reviewer

Joseph Steinberg
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:

STRIKE OUT ONE

NONFLUATING AIDS/OR LANDMARKS-FOR CHARTS

Baltimore, Maryland

I recommend that the following objects which have *(S.S.W. 1160)* been inspected from seaward to determine their value as landmarks be charted on *(S.S.W. 1160)* the charts indicated.

The positions given have been checked after listing by **R. Glaser**

William F. Deane *Chief of Party.*

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

~~TOP SECRET//SI~~

STRIKE OUT ONE

NONFLUENT/FLUENT/ADDS/OR LANDMARKS FOR CHARTS

Plymouth Mass.

23 October 1953

I recommend that the following objects which have ~~(b)(4), (b)(7)(D)~~ been inspected from seaward to determine their value as landmarks be ~~(b)(4), (b)(7)(D)~~ the charts indicated.

The positions given have been checked after listing by

/s/ Loren F. Woodcock

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

Comm-DC 28356

49. GEOGRAPHIC NAMES

Atlantic Ocean

Barnstable County
Beach Hwy

Cape Cod

Gar Hwy
Grassy Pond
Great Pond

Mayflower Heights
Mt. Gilboa

New York New Haven and Hartford R. R.

Oak Head

Pilgrim Lake
Provincetown Municipal Airport

Race Point
Race Point Road

U. S. 6 (Hwy)
U. S. 6-A (Hwy)

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

