

11179

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-11179

### LOCALITY

State Massachusetts

General locality Cape Cod Bay

Locality Truro

1952-1953

### CHIEF OF PARTY

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

### LIBRARY & ARCHIVES

DATE January 2, 1966

USCOMM-DC 5087

11179

# DATA RECORD

①

T-11179

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):

Copy filed in Division of  
Photogrammetry (IV)

30 April 1953

9 June 1953 (Supplement 1)

9 July 1953 (Supplement 2)

Letter of 10 July 1953, 70-lmh

11 Aug 1953 (Supplement 3)

Method of Compilation (III): Letter of 28 Aug 1953, 711-aal & 22 Nov 1957  
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): **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): **TRURO WELLFLEET 6 (WM) (TRURO CORNER 1), 1887**

Lat.: **41° 57' 28.28" (872.5m)**

Long.: **70° 04' 37.06" (853.5 m)**

Adjusted  
~~Unadjusted~~

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. Frank Lampton, Jr.

Date: Sep-Oct 1953

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

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

Sept. - Oct. 1953 - Field inspection

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

Date: 2/18/54

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

Date: 3/1/54

Control plotted by (III): D. Williams

Date: 7/22/55

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

Date: 8/4/55

Radial Plot or ~~Stereoscopic~~ ~~Control Extension~~ by (III): H. R. Rudolph

Date: 2/13/58

Planimetry  
Stereoscopic Instrument compilation (III):  
Contours

Date:

Date:

Manuscript delineated by (III): J. Honick

Date: 5/22/59

Photogrammetric Office Review by (III): R. Glaser

Date: 6/18/59

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

Date:



④

Camera (kind or source) (III):

C&GS "J" Camera  
P.M.A. photographs

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide above MLW
DPL-5K-19-23	7/25/52	1248	1 : 10,000	8.3
DPL-4K-69-72	7/13/52	1004	"	-0.3
DPL-4K-57-60	"	0957	"	Interior
DPL-5K-64-66	7/25/52	1328	"	Not used
53-J-451-455	4/29/53	0738	"	2.4

Tide (III)

From predicted Tide Tables

Reference Station: Boston  
Subordinate Station: Wellfleet  
Subordinate Station: Provincetown

Ratio of Ranges	Mean Range	Spring Range
	9.5	11.0
	10.0	11.6
	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): 10

Shoreline (More than 200 meters to opposite shore) (III): 5.5 mi.

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

Control Leveling - Miles (II): none

Number of Triangulation Stations searched for (II): ~~17~~ 26 Recovered: ~~17~~ 19 Identified: 16

Number of BMs searched for (II): none Recovered: Identified:

Number of Recoverable Photo Stations established (III): None

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

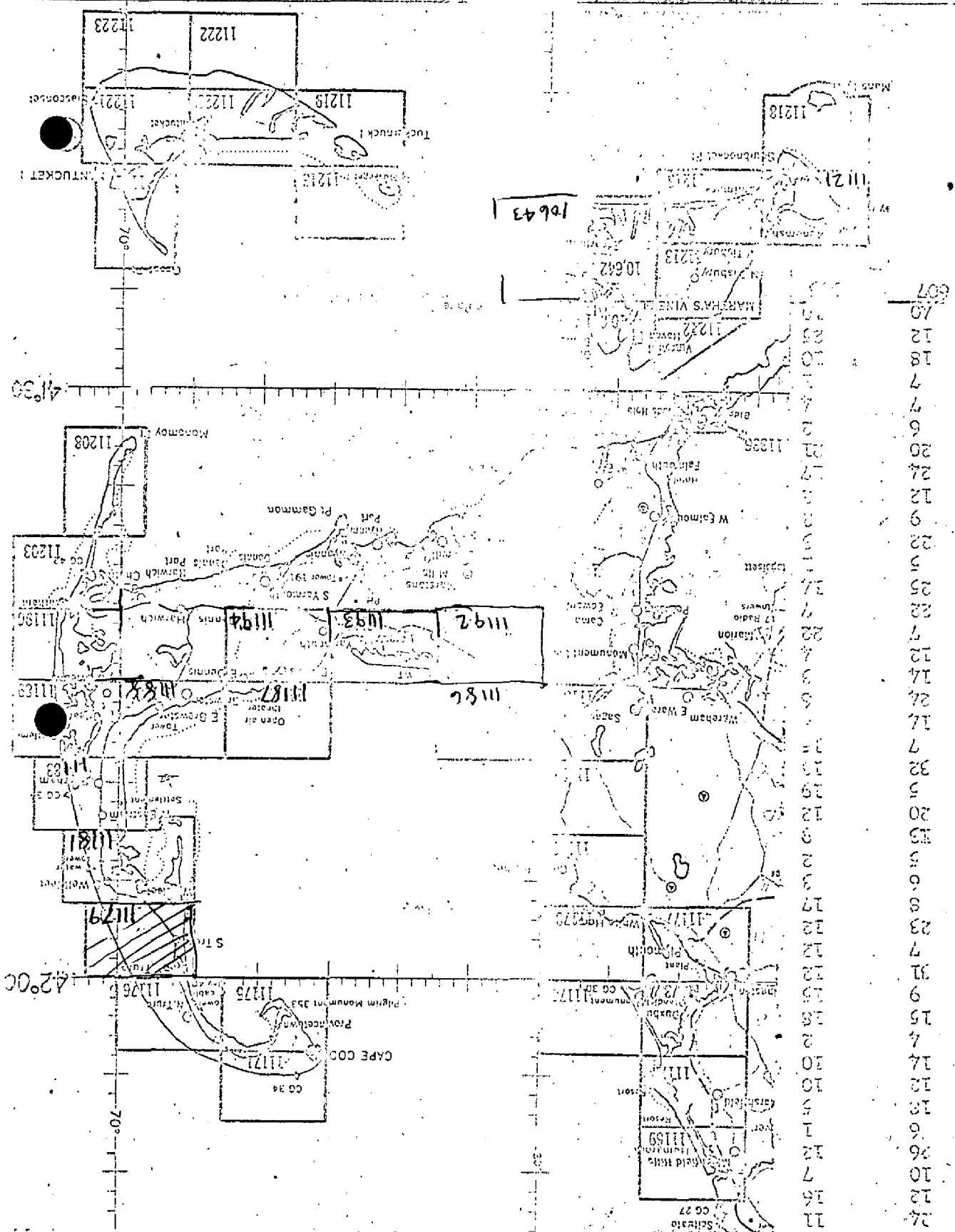
Summary to Accompany Descriptive Report  
T-11179

T-11179 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.

In accordance with instructions dated November 22, 1957, the ocean shoreline (east side of manuscript) was not compiled.

②

647000



## 2. AREAL FIELD INSPECTION

The area is mostly wooded or brush covered dunes, interspersed with rather extensive marshes, draining to the west. There are a number of large ponds in the central and southeast portion.

The sheet is crossed north and south by U. S. Highway No. 6 and a branch of the New York, New Haven and Hartford Railroad. The railroad is little used, carrying only an occasional freight train. There are no stations or sidings within the sheet.

The village of Truro and about half of Wellfleet are within the sheet.

The Cahoon Hollow Coast Guard Station shown on the U.S.G.S. "Wellfleet" quadrangle is now abandoned.

Some of the marsh in the southwest portion of the sheet is difficult to interpret on the photographs. The level of this marsh has been raised somewhat by sand and it will now support the growth of small bushes in many places. However, the character of the land is still essentially marsh and should be shown as such on the map.

The field inspection is believed to be complete.

Field work was done on photographs DPL-4K-57; DPL-4K-58; DPL-4K-60; DPL-4K-61; DPL-4K-68; DPL-4K-69; DPL-4K-71; and DPL-4K-72; DPL-5K-20; DPL-5K-64 through DPL-5K-66; 53-J-451 through 53-J-454; and 53-J-463. 1953 C. & G. S. photographs along the Atlantic Shore (53-J-461 through 53-J-465) were not used because of lack of clarity, except for a recent road and radio tower, and the identification of one horizontal control station.

## 3. HORIZONTAL CONTROL

All Coast and Geodetic Survey triangulation stations were searched for and identified if recovered, with the exception of station TRURO(MGS) 1937 which was too near station TRURO TOWN HALL 1933 and TRURO CONGREGATIONAL CHURCH SPIRE 1933 for additional control to be needed.

The following horizontal control stations of the Massachusetts Geodetic Survey were recovered: 108A, 108C, 144R, 144U, 144V, 145W, 145Z, 145AA and 145AJ. All except 144U and 145Z were identified. These stations are believed to be of third-order accuracy.

The following stations have been reported as lost on Form 526: PAMET 1933; SNOWS POND(MGS)1940; RICH 1887; TRURO CORNER 8 BASE 1 1887; TRURO CORNER 8 BASE 2 1887; TRURO CORNER 8 BASE 3 1887; 108D MGS 1937; 144W MGS 1939. At station SNOWS POND(MGS)1940, Reference Mark No. 2 was identified.



4. VERTICAL CONTROL

There are no tidal bench marks within the sheet.

5. CONTOURS AND DRAINAGE

Contours inapplicable. All drainage is tidal through marsh and is clearly visible on the photographs. No perennial drainage above marsh level was observed during field work.

6. WOODLAND COVER

Inapplicable.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line along both shores appears on the photographs as a line on the sandy beach. The line has been indicated at intervals. The field inspection notes are believed to be adequate for complete interpretation of the mean high water line.

The photographs were taken at too high a stage of tide to permit identification of the mean low water line.

The foreshore throughout the sheet is sand.

There is a number of prominent bluffs on the Atlantic shore and, to a lesser extent, on the Cape Cod Bay shore. They are excellent landmark features. They are clearly visible on the photographs and are accurately portrayed by the U.S.G.S. "Wellfleet" quadrangle. The bluffs are entirely sand, and have a slope of approximately 45 degrees.

The few piers and similar shoreline structures have been indicated on the photographs.

8. OFFSHORE FEATURES

No offshore features were observed during field work.

9. LANDMARKS AND AIDS

There are no aids to navigation. Four previously established landmarks were examined and retained and one new landmark was added. See Forms 567.

10. BOUNDARIES, MONUMENTS AND LINES

Inapplicable.

11. OTHER CONTROL

None was established.

*NOTE: The remainder of this  
Field Inspection Report  
was missing at the  
time of final review.*

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

MAP T.11179

PROJECT NO. PH-116

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\mu$ -COORDINATE LONGITUDE OR $x$ -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	
108A MGS, 1937	M.G.S. p. 26	N.A. 1927	366,841.21		1841.21	3158.79		561.2	962.8		
			1,002,540.95		2540.95	2459.05		774.5	749.5		
108C MGS, 1937	M.G.S. p. 26	N.A. 1927	365,983.31		983.31	4016.69		299.7	1224.3		
			998,139.27		3139.27	1860.73		956.9	567.2		
TRURO CORNER 8, 1887	G.3694 p. 192	"	41 57 59.40					1832.7	18.5		
			69 59 56.74					1306.6	75.1		
144R MGS	M.G.S. p. 27	"	352,287.48		2287.48	2712.52		697.2	826.8		
			1,010,012.44		12.44	4987.56		3.8	1520.2		
144V MGS, 1939	M.G.S. p. 27	"	358,657.11		3657.11	1342.89		1114.7	409.3		
			1,006,798.01		1798.01	3201.99		548.0	976.0		
144U MGS, 1939	M.G.S. p. 27	"	356,463.67		1463.67	3536.33		446.1	1077.9		
			1,007,832.86		2832.86	2167.14		863.5	660.5		
TRURO MGS, 1937	G-3409 p. 116	"	41 59 53.959					1664.8	186.4		
			70 03 15.378					353.9	1027.0		
145Z MGS	M.G.S. p. 28	"	354,576.17		4576.17	423.83		1394.8	129.2		
			987,074.54		2074.54	2925.46		632.3	891.7		
145W MGS	"	"	347,705.99		2705.99	2294.01		824.8	699.2		
			987,471.67		2471.67	2528.33		753.4	770.6		
145AA MGS	M.G.S. p. 29	"	356,567.37		1567.37	3432.63		477.7	1046.3		
			989,127.66		4127.66	872.34		1258.1	265.9		
145 AD MGS, 1939	"	"	359,603.17		4603.17	396.83		1403.1	121.0		
			989,212.48		4212.48	787.52		1284.0	240.0		
145AU MGS	M.G.S. 1927	"	349,653.70		4653.70	346.30		1418.4	105.6		
			998,713.54		3713.54	1286.46		1131.9	392.1		

1 FT. = 3048006 METER

COMPUTED BY: Norman Wedemeyer

DATE

8 July 1954

CHECKED BY:

B. Kure

DATE

28 July 1959

COM-DC-57843







COMPILATION REPORT  
T-11179

See combined compilation report T-11175 and T-11176 for Photogrammetric Plot Report.

31. DELINEATION

Graphic methods were used to delineate this manuscript.

The interior limit of delineation was at Gar Highway, U. S. No. 6.  
(See revised project instructions dated 22 November 1957, para. 4)

32. CONTROL

The identification, density and placement of control was adequate.

33. SUPPLEMENTAL DATA

The U.S.G.S. Quadrangle Wellfleet, Mass., was used for geographic names.

34. CONTOURS AND DRAINAGE

Contours: Inapplicable.

Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

The offshore limits of sand (approximate low-water line) along Cape Cod Bay was delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

Form 567 has been submitted for five Landmarks to be charted.

38. CONTROL FOR FUTURE SURVEYS

None established.

39. JUNCTIONS

Junctions are in agreement with T-11176 to the north and T-11181 to the south. All water area to the east and west.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to Photogrammetric Plot Report.

41. - 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

1. U.S.G.S. quadrangle Wellfleet, Mass., scale 1:31,680, edition of 1944, revised 1949.

2. T-5733, scale 1:10,000, compiled from photographs of 1938 and 1943.

47. COMPARISON WITH NAUTICAL CHARTS

1. No. 580, scale 1:20,000, published Dec. 1944 (2nd Edition) corrected to 12/23/52.

2. No. 581, scale 1:40,000, published Mar. 1936, corrected to 9/21/53.

Items to be applied to Nautical Charts immediately: None.

Items to be carried forward: None.

Respectfully submitted  
25 May 1959

*Jack Honick*  
Jack Honick  
Carto. Photo. Aid

Approved and forwarded

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

Review Report  
T-11179  
July 1965

14

62. Comparison with Registered Bureau Surveys

T-5733                      1:10,000                      1958

T-11179 supersedes the prior survey for charting purposes in the common area.

63. Comparison with Maps of Other Agencies

USGS quadrangle Wellfleet, 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 1962  
581                      1:40,000                      Revised 1962

No form indicating application to nautical charts has been inserted in the subject Descriptive Report. No significant difference between the shoreline survey and the nautical chart were noted.

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 L. Sherman  
Chief, Photogrammetric Branch  
hcl.

L. F. Woodcock  
Chief, Photogrammetry Division

Chief, Nautical Chart  
Division

15

6-18-59

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11179

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

CONTROL STATIONS

4a. Classification label ☒

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. Gleason  
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:



## ACKNOWLEDGMENTS/ AIDS/ OR LANDMARKS FOR CHARTS

TO BE CHARTED  
~~TO BE DELETED~~

Baltimore, Maryland  
23 June 1959

I recommend that the following objects which have ~~(not been)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(not been)~~ the charts indicated.

The positions given have been checked after listing by

# 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

48. GEOGRAPHIC NAMES LIST

Barnstable County  
Bound Brook  
Bound Brook Island  
Bound Brook Island Road

Cape Cod  
Cape Cod Bay  
Castle Road

Depot Road  
Duck Harbor

Fisher Road

Gar Hwy.  
Griffin Island

Harbor Bar  
Herring River

Lombard Hollow

Merrick Island

New York New Haven and Hartford (N.R.)

Old County Road  
Our Lady of Lourdes Church (F.I.)

Panet Harbor (Name from Chart 580)  
Panet Point Road  
Panet River  
Paradise Hollow  
Pine Grove Cemetery  
Prince Valley Road

Round Pond  
Ryder Beach Road  
Ryder Pond

Sacred Heart Church (F.I.)  
Snow Cemetery  
South Truro

Tom Hill  
Truro  
Truro Station

U. S. 6 (Hwy)

Wellfleet

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

All names from U.S.G.S.  
Wellfleet, Mass. quadrangle  
except as indicated. (F.I.)  
designates name from field  
inspection data.

## NOTES TO REVIEWER

OK atw

OK atw.

ROUND POND and RYDER POND were named on the manuscript as shown on the U.S. Wellfleet quadrangle. It was noted however, that T-5733 names these ponds BLACK POND and SNOW POND respectively.

Another pond just east of Gar Highway from the above mentioned ponds is called SNOW POND on the quadrangle and NEWCOMB POND on T-5733.

Checked &  
Approved

7-23-65  
A. J. Wraight

