9512 9512a
9513 9513a

9512a 9513a

9512 9513

Diag. Cht. No. 1207-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey SHORELINE-PHOTOGRAMMETRIC

Field No. Ph-64(49) Office No. T-9512,9512A T-9513,9513A

LOCALITY

State MASSACHUSETTS

General locality MASSACHUSETTS BAY

Locality PLYMOUTH-NORFOLK COUNTIES SCITUATE HARBOR TO AND INCLUDING COHASSET HARBOR

194 50

CHIEF OF PARTY

H.A.Paton, Chief of Field Party.
H.A.Paton, Baltimore Photogrammetric Office

LIBRARY & ARCHIVES

DATE JUL 13 1954

B-1870-1 (1)

DATA RECORD

T- 9512 & 9513 (1:40,000)
9512A & 9513A (1:5,000)

Project No. (II): Ph-64(49)

Quadrangle Name (IV):

Field Office (II): Baltimore, Maryland

Chief of Party: Comdr. H.A. Paton

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: Comdr. H. A. Paton

Instructions dated (II) (III): 21 July 1950 Field
19 Jan. 1951 Office

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): 9513 - 5-29-51
9512 - 6-6-51

Date reported to Nautical Chart Branch (IV): 6-4-51

Applied to Chart No. Date:

Date registered (IV): 7 Nov. 1952 (9512)
12 Dec " (9512A)
24 Dec " (9513)
12 Dec " (9513A)

Publication Scale (IV):

Publication date (IV): (Date of Issue July 1952)

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: MHW
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): BORDER STREET, 1885

Lat.: 42° 14' 01.990" (61.4m) Long.: 70° 47' 05.275" (121.0m) Adjusted ~~Unadjusted~~

Plane Coordinates (IV):

State: Mass. Zone: ~~Mass Lambert~~ Mainland p.145

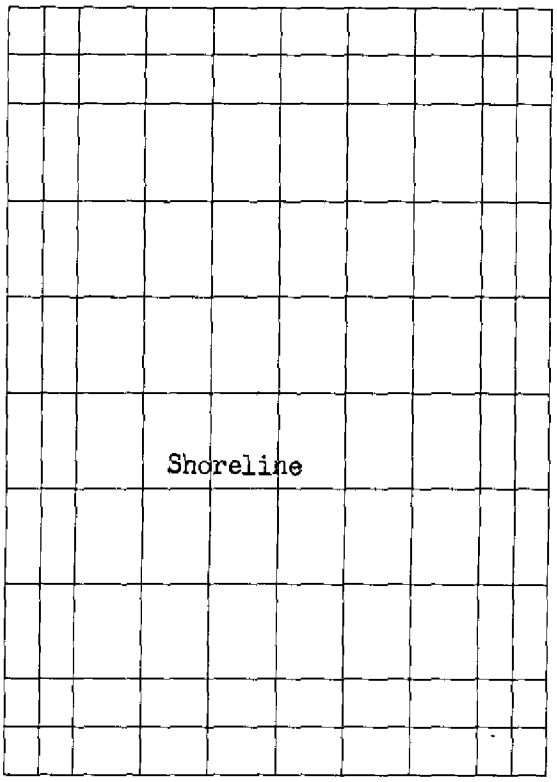
Y= 45 0,435.27

X= 793,688.45

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.

M-2618-12(4)



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

DATA RECORD

Field Inspection by (II): Dave Lafferman, Carto. Draftsman
R.A. Horn, Carto. Engineer
Date: 2 Oct 1950
27 Nov 1950

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): June 1950, field inspection

Projection and Grids ruled by (IV): T.L.J. Date: 1/18/51

Projection and Grids checked by (IV): H.D.W. Date: 1/19/51

Control plotted by (III): J.C.Richter Date: 1/29/51

Control checked by (III): M.F. Kirk Date: 1/30/51

Radial Plot or Stereoscopic Control extension by (III): J. Steinberg
H.R.Rudolph
Date: 2/23/51

Stereoscopic Instrument compilation (III):
Planimetry Date:
Contours Date:

Manuscript delineated by (III): R. R. Hartley Date: 2-27-51
J.Y.Councill 3-1-51
L.A.Senasack 3-5-51
J.C.Richter 3-15-51

Photogrammetric Office Review by (III): R. Glaser Date: 3-21-51

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

M-2618-12(4)

Camera (kind or source) (III): U.S.C.& G.S. Single lens wide angle, type O

PHOTOGRAPHS (III)

Number	Date	Time E.S.T.	Scale	Stage of Tide above MLW
50-0-1262 to 50-0-1268 incl.	6-2-50	1312	1:10,000	8.6
50-0-1269 to 50-0-1274 "	6-2-50	1321	1:10,000	8.4
50-0-1284 to 50-0-1288 "	6-2-50	1342	1:10,000	7.9
50-0-1294 to 50-0-1301 "	6-2-50	1359	1:10,000	7.6
50-0-1302 to 50-0-1307 "	6-2-50	1408	1:10,000	7.3

Tide (III)

	Ratio of Ranges	Mean Range	Spring Range
Reference Station: Boston, Mass.		9.5	11.0
Subordinate Station: Cohasset Harbor (White Head)	0.9	8.8	10.2
Subordinate Station: Scituate	0.9	9.0	10.4

Washington Office Review by (IV): Lina T. Stevens Date: 15 Jan. 1952

Final Drafting by (IV): A Berry Date: 16 June 52

Drafting verified for reproduction by (IV): W.O. Hallein Date: 30 June 52

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 72

Shoreline (More than 200 meters to opposite shore) (III): 15.2 statute mi.

Shoreline (Less than 200 meters to opposite shore) (III): 11.6 statute mi.

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 42 Recovered: 32 Identified: 22

Number of BMs searched for (II): 12 Recovered: 12 Identified: 12

Number of Recoverable Photo Stations established (III): 4

Number of Temporary Photo Hydro Stations established (III): 13

Remarks:

Number of triangulation stations established - 7 Identified - 6

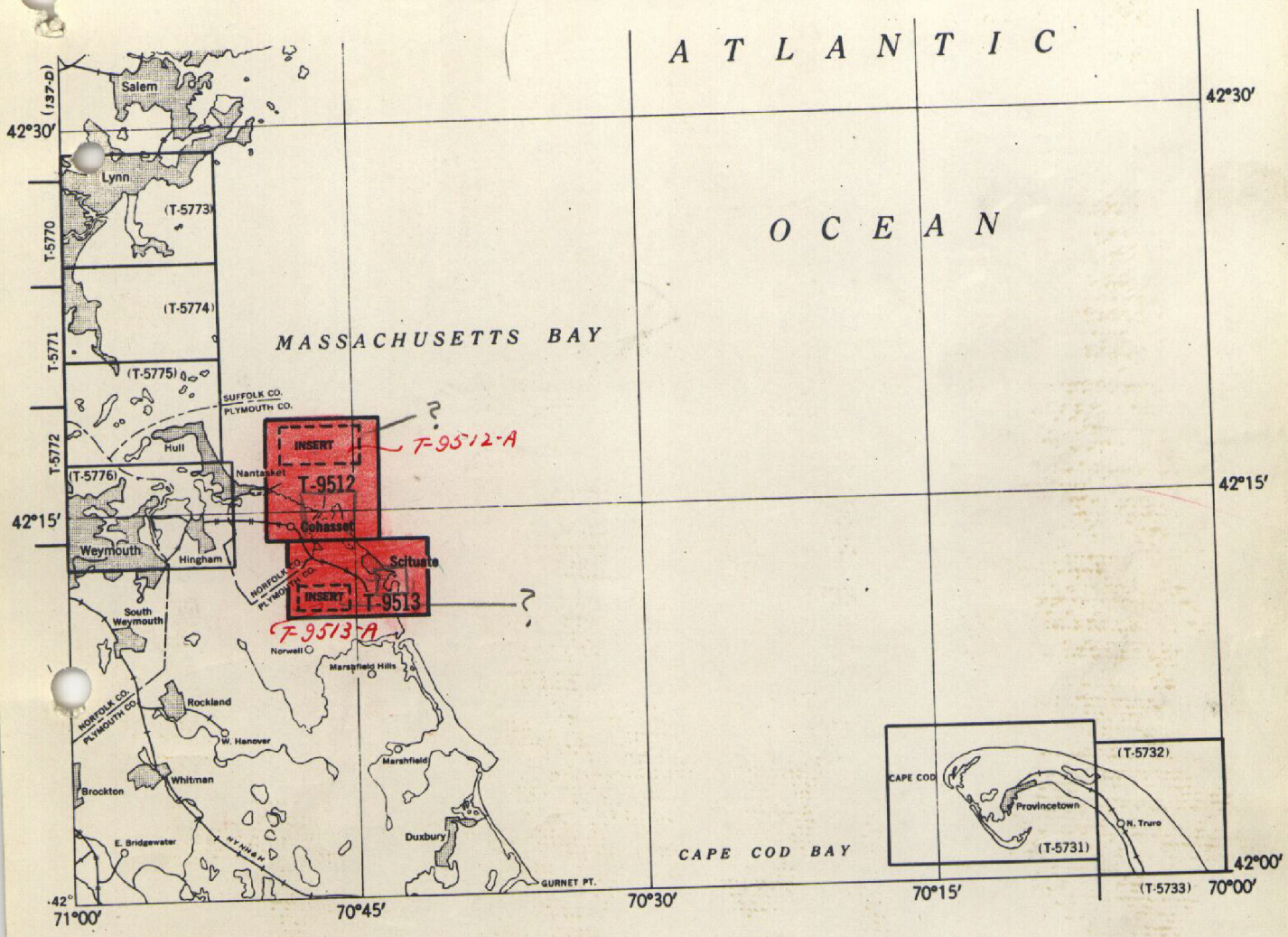
Number of topographic stations established - 4 Identified - 4

M-2618-12(4)

SHORELINE MAPPING PROJECT PH-64 (49)

MASSACHUSETTS, Cohasset and Scituate Harbors

Surveys, scale 1:10,000 Inserts, scale 1:5,000



Summary to Accompany T-9512, ~~and~~ T-9513, T-9512A and T-9513A

Shoreline project Ph-64(49) consists of four map manuscripts: T-9512 and T-9513 at 1:10,000 scale; and T-9512A and T-9513A at 1:5,000 scale. These surveys were made for the purpose of obtaining shoreline and control data for future hydrographic surveys and nautical charts.

T-9512 extends from North Scituate Beach westward to Green Hill thus including Cohasset Harbor. T-9513 extends from Peggotty Beach to North Scituate Beach, thus including Scituate Harbor. T-9512-A and T-9513-A are harbor surveys for Cohasset and Scituate harbors, respectively.

Prior to making the radial plot and the compilation, field inspection was made of shoreline, off-shore rocks, and ledges. Additional horizontal control was established. This included triangulation, topographic, and hydrographic stations. Little interior field inspection, other than recovery of control and some geographic name verification, was accomplished. Therefore roads and buildings were delineated almost wholly from office inspection of the photographs.

Instructions for this project indicated that compilation would be made by the Kelsh Plotter, but the instrument was not available, so graphic methods were used. Instructions also required that the Cohasset and Scituate harbors compilations be insets to T-9512 and T-9513, respectively, but, because of their large size, they have been designated as T-9512-A and T-9513-A.

FIELD INSPECTION REPORT
SHORELINE SHEETS 9512 & 9513
PROJECT Ph-64(49)

H.A. Paton, Chief of Party

2. AREAL FIELD INSPECTION

The area surveyed is primarily a resort section, and there is a considerable influx of people during the summer season. Some commercial fishing and lobster boats are operated by local inhabitants throughout the year from Scituate and Cohasset Harbors.

The photographic coverage for this area is good. Little difficulty was experienced in the interpretation of detail.

3. HORIZONTAL CONTROL

With the exception of three photographs, all photos have four or more identifiable horizontal control point images visible. Photo 1302 has only two identifiable points, and photos 1270 and 1284 have one each. It is felt that the control shall be adequate for compilation.

In some instances, it was deemed advisable to identify two substitute points for one station. This was done since there was not an ideal sub-point image available on all photos covering the station. Thus, to be certain of its use, the two best images available were identified and either or both may be used in compilation.

The following supplemental control was established during the course of the survey: "BLACK ROCK-2-1950," established by "fix" and marked with standard triangulation and reference mark disks. "BRYANT POINT LIGHT-1950", "LONG BASIN LIGHT-1950", "WHITE HEAD LIGHT-1950", "SUTTON HOLE LIGHT-1950", and "BARREL ROCK DAYBEACON-1950" were established by "cuts". In order to get sufficient "cuts" for a third-order position on these objects, it was necessary to establish and occupy an eccentric position for "STRAWBERRY POINT-1921". Also, a "fix" was taken from the roof of a dwelling on White Head (a small island on the west side of Cohasset Harbor) from which observations on said objects were made. This position is described on Form 525 as "FOX-1950". A third "cut" was obtained from U.S.C.&G.S. Traverse Station B1/9 S1/9 1943, and a fourth (on SUTTON HOLE LIGHT and BARREL ROCK DAYBEACON only) was obtained from BLACK ROCK-2-1950.

Listed as "lost" on Form 526 are the following stations: ELM-1885; ELM-2-1885; ELM-3-1885; ELM-4-1885; CAT HILL-1847; FIRST CLIFF-1924; BLACK ROCK-1847; SCITUATE,

OLD CATHOLIC CHURCH SPIRE-1938; PARKER HILL-1847; and TANK-1894.

4. VERTICAL CONTROL *

Twelve tidal bench marks were recovered and identified on the photographs. A report on the condition of these marks has been made on Form 685.

5. CONTOURS AND DRAINAGE

Inapplicable

6. WOODLAND COVER

To be classified at a later date.

7. SHORELINE AND ALONGSHORE FEATURES

The shoreline inspection was conducted with some haste and lesser degree of thoroughness than usual. It is felt, however, that the work is well within the allowable limits of accuracy. The reason for working in this manner was due to the fact that the working days of this season were quite limited. Consequently, the objective was to get the mean high water line throughout (which was accomplished) so that the hydrographic party would at least have the fundamentals for a boat sheet.

Portions of the approximate low water line have been delineated in Scituate and Cohasset Harbors.

Two submarine cables have been identified on the photos on the west shore of a section known as "The Glades" at Cohasset Harbor. There were no other cables found in the area.

To get satisfactory results under the circumstances, all shoreline was walked by the field party. As a supplement to this, a cruise was made by skiff covering the entire project.

8. OFFSHORE FEATURES

There are many detached rocks, ledges, and outcrop islands throughout this coastline. The majority of these have been visited via skiff and suitable notes made on the photos regarding their nature. At several points, rocks were observed but not visible on the photos. These general areas are indicated on the photos and the exact positions of same should be determined by the hydrographic party.

9. LANDMARKS AND AIDS

The triangulation station "SCITUATE, NORTH STACK-1934" (Landmark "STACK" on chart #1207) is of only secondary value as a landmark, since it has been reduced in height and is now merely 47 feet tall. Not on 1950 rev. print.

The beacon shown on end of jetty projecting southwest (Chart #232) should be deleted. It is no longer in existance.

* T-9512 Mass 26, No. 1 2 3 Bluff (USE) 26 No 2 (BtM) 3 4 5 6

T-9513 Mass 27, No 4 (USE) GATE 5 " BM 6

Tobias Rock Daybeacon is not in existence at this date and is recommended for deletion on Form 567. The 26 October 1950 issue of Notice to Mariners, however, states that it is to be rebuilt in the near future.

The landmark "CUP" at approximate latitude 42 - 15.2 and longitude 70 - 46.3, on "THE GLADES CLUBHOUSE", has been recommended for deletion. It is of only secondary value as a landmark. South-southeast of it, in the same general area, an abandoned concrete military lookout tower has been identified on the photo and is recommended as a landmark. It is quite prominent from offshore and is of a permanent nature.

T-9512

(Confidential) ΔB 5 9

Eighteen radio towers of the World Wide Broadcasting Corporation have been identified on photo 1272; the location of said towers may be of some value for aeronautical charting purposes.

T-9513

The lights in the Cohasset Harbor channel (lantern only) are removed yearly on 1 November and replaced on 1 May.

10. BOUNDARIES, MONUMENTS, AND LINES

Inapplicable

11. OTHER CONTROL

See also Review Report, Item 67

Four recoverable topographic stations were established, namely "CROW" (a U.S.E. disk); "MAST" (a flagpole); "MIKE" and "DAVE" (standard topographic station disks).

Forms 524 submitted

Thirteen photo-hydro stations were identified in the project.

12. OTHER INTERIOR FEATURES

There are not any bridges in the area other than "skiff clearance only". At the entrance to the body of water charted as "The Gulf", at the southerly end of Cohasset Harbor, a notation is made on the photos "skiff clearance only - dangerous currents". This same condition prevails at the entrance to "Little Harbor", and the fact that dangerous currents exist should be emphasized.

Road classification, buildings and structures, and other in-shore inspection is incomplete and will be done at a later date.

Manuscript delineated without benefit of interior field inspection

13. GEOGRAPHIC NAMES

Incomplete. To be done at a later date.

not yet received 1-16-52

not yet received 4-28-53

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

There are no special reports for this project. All photographs, records, and supplemental data are transmitted

here-with to the Baltimore Office.

Submitted: 27 November 1950

R. A. Horn

R.A. Horn
Cartographic Engineer

Approved:

Hubert A. Paton

H.A. Paton
Chief of Party

PHOTOGRAMMETRIC PLOT REPORT

PROJECT NO. PH64 (49)

SURVEYS NO. T-9512 ~~(insert)~~ A

21. AREA COVERED

This radial plot covers the area of shoreline survey No. T-9512, scale 1:5,000. The survey is located along the coast of Massachusetts in the Cohasset Harbor area ~~and the compilation thereof will be shown as an insert on 1:10,000 scale sheet No. T-9512.~~ This radial plot does not make junction with any other surveys of the same scale.

22. METHOD-RADIAL PLOT

Map Manuscripts: Vinylite sheets, with polyconic projections, and Massachusetts state grids, 2000 foot intervals, at a scale of 1:5000 were furnished by the Washington Office. No base sheets were used.

All control stations and substitute stations were plotted using beam compass and meter bar.

A sketch showing the layout of the survey and distribution of control and photograph centers is attached to this report.

Photographs

Single lens photographs, ratioed to a scale of 1:5000, were used in this radial plot. Thirteen photographs were used, numbered as follows:

50-0-1264 to 50-0-1267, inclusive
50-0-1297 to 50-0-1305 inclusive

The symbols used on the photographs are in accordance with those shown in the topographic manual.

Templets

No templets were used in this radial plot since there was no master templet available for photographs ratioed to a scale of 1:5,000 which made the photographs approximately 36 inches square. The master templet available for photographs taken with the "0" camera is approximately 18 inches square.

Closure and Adjustment to Control

The radial plot was made directly on the map projection. The photographs were oriented beneath the projection sheet and ray lines drawn thru the image points of all pass points to establish their positions. The photographs containing the strongest fixes were oriented first. Control station SCITUATE CORNER 6, 1885 could not be held with the substitute point for control station BORDER STREET, 1885. Since sub point BORDER STREET 1885 could be held with all the other existing control, SCITUATE CORNER 6 was not used and a satisfactory radial plot was completed. see Review Report 67

The positions of all centers were pricked directly on the map projection while their respective photographs were oriented beneath the projection.

The radially plotted positions of the pass points were also pricked directly on the map projection.

The radially plotted position of SCITUATE CORNER 6, 1885 was also pricked. This is "Monument", discussed in the Review Report, 67, for which a form 524 was filed at the time of review.

23. ADEQUACY OF CONTROL

The placement of the horizontal control was adequate for a satisfactory radial plot.

Only one control station could not be held in this radial plot:-

SCITUATE CORNER 6 1885 - The radially plotted position falls ~~2.9 mm~~ 1.49mm SSW of the geographic position. The identification by the field party is "doubtful" because there was no original description of the station. The identification was made by arcs from identifiable image points one of which was the substitute point for BORDER STREET, 1885.

The radially plotted position of SCITUATE CORNER 6 falls on the SW side of Border Street (name of road) while the geographic position falls on the NE side of Border Street. See Review Report, Item 67.

24. SUPPLEMENTAL DATA

The positions of all photograph centers and pass points established by this radial plot were checked graphically with their corresponding positions as established by the radial plot constructed for surveys numbers T-9512 and T-9513 at a scale of 1:10,000.

25. PHOTOGRAPHY

The photographic coverage was adequate for the area of the survey. The definition of photographs is good in the central areas of the photographs. However, the images in the outer portions of the photographs are hazy due to the great enlargement.

Respectfully submitted
20 February 1951

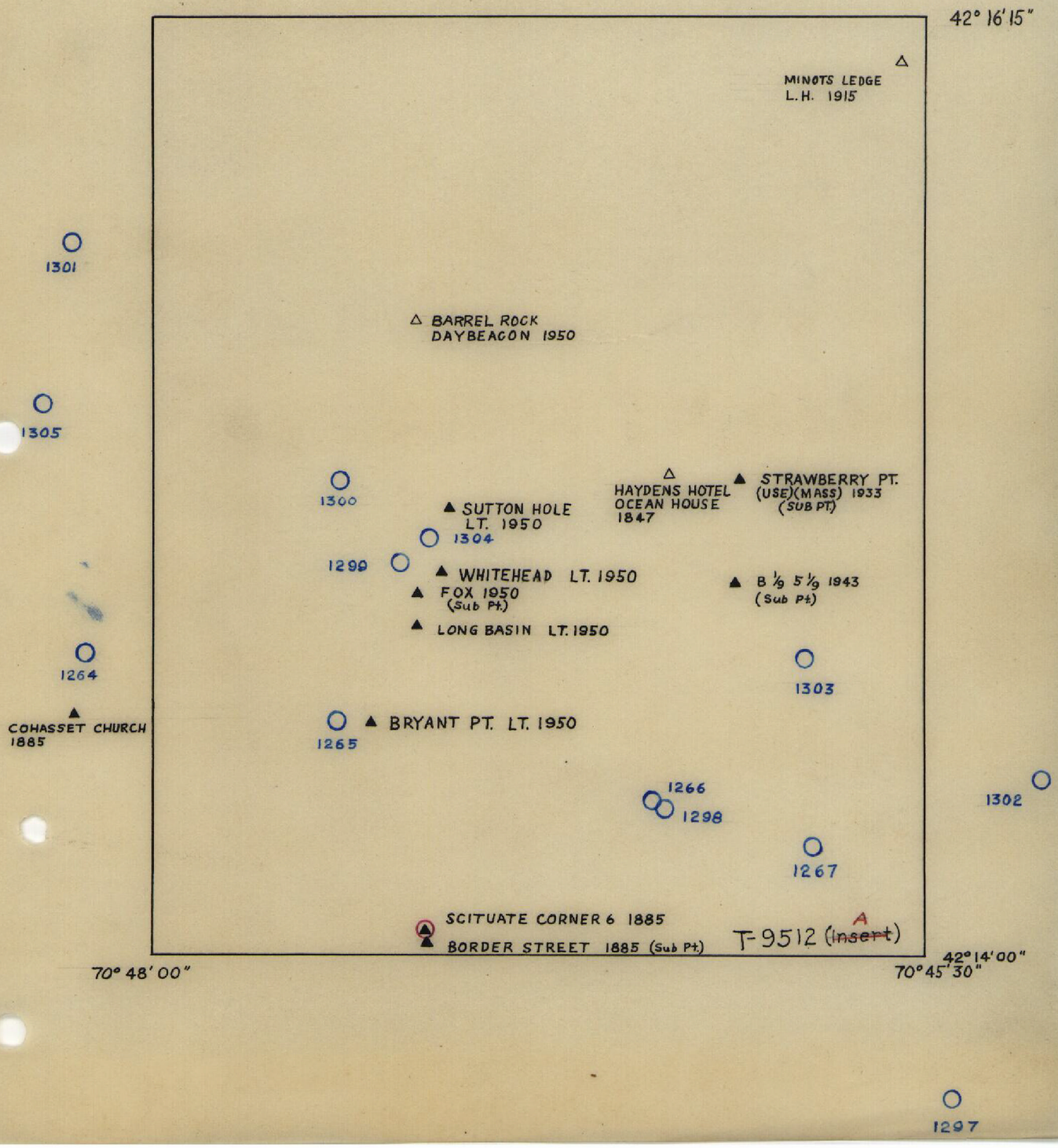
Harry R. Rudolph

Harry R. Rudolph
Cartographer (Photo)

LAYOUT SKETCH

PROJECT PH 64(49)
SURVEY NO T-9512 (~~insert~~ A) 1:5,000

○ SINGLE LENS OFFICE PHOTOGRAPHS
△ TRIANGULATION STATIONS (NOT IDENTIFIED, NOT USED)
▲ TRIANGULATION STATIONS (IDENTIFIED, HELD)
◬ TRIANGULATION STATIONS (NOT HELD IN RADIAL PLOT)



PHOTOGRAMMETRIC PLOT REPORT

PROJECT PH-64(49)

SURVEY NO. T-9513 (A ~~insert~~)

21. AREA COVERED

This radial plot covers the area of shoreline Survey No. T-9513A, scale 1:5000. The survey is located along the coast of Massachusetts in the Scituate Harbor ~~area and the compilation thereon will be shown as an insert on Survey No. T-9513, scale 1:10,000.~~ This radial plot does not make junction with any other survey of the same scale.

22. METHOD--RADIAL PLOT

Map Manuscripts- Vinylite sheets with polyconic projections and Massachusetts State grids, 2000 foot interval, at a scale of 1:5000, were furnished by the Washington Office. No base sheets were used.

All control stations and substitute stations were plotted and checked using beam compass and meter bar.

A sketch showing the layout of the survey and distribution of control and photograph centers is attached to this report.

Photographs

Eight single lens photogaphs ratioed to a scale of 1:5000 were used in this radial plot. They are numbered as follows:

50-0-1272
50-0-1285 to 50-0-1288
50-0-1293 to 50-0-1295

The symbols used on the photographs are in accordance with those shown in the topographic manual.

Templets

No templets were used in this radial plot since there was no master templet available for photographs ratioed to a scale of 1:5000, which made the photographs approximately 36 inches square. The master templet available for photographs taken with the "O" camera is approximately 18 inches square.

Closure and Adjustment of Control

The radial plot was made directly on the map projection by orienting the photographs beneath the projection sheet. Ray lines were then drawn thru the image point of the pass points to establish their positions. The photographs containing the strongest fixes were oriented first.

In constructing the plot photograph 50-0-1272 was found to be considerably tilted. The tilt was determined graphically and found to be approximately 3 degrees. The iso-center was plotted on the photograph with rays from it thru all control and pass points drawn in red ink. The photograph was then re-oriented and could then be held in the plot. A satisfactory plot was then completed.

The positions of all photograph centers were pricked directly on the map projection while their respective photographs were oriented beneath the projection sheet..

The radially plotted positions of the pass points were also pricked directly on the map projection.

23. ADEQUACY OF CONTROL

The amount of control was adequate. The distribution of control was adequate except in the southwest corner of the survey.

Three control stations outside the limits of the projection were plotted on a dog-ear to strengthen the west side of the plot but only three of the photos reached these stations and one of these, 50-0-1272, was badly tilted.

24. SUPPLEMENTAL DATA

The positions of several pass points located by the radial plot for surveys T-9512 and T-9513, scale 1:10,000, were scaled from that plot and plotted in the weak area of this plot to supplement the control.

25. PHOTOGRAPHY

The photographic coverage was adequate for a satisfactory radial plot.

The definition is good in the central areas of the photographs. However, the images in the outer portions of the photographs are hazy due to the great enlargement.

With the exception of photograph No. 50-0-1272 which was found to be tilted approximately 3 degrees no excessive tilt was found.

Respectfully submitted
23 February 1951

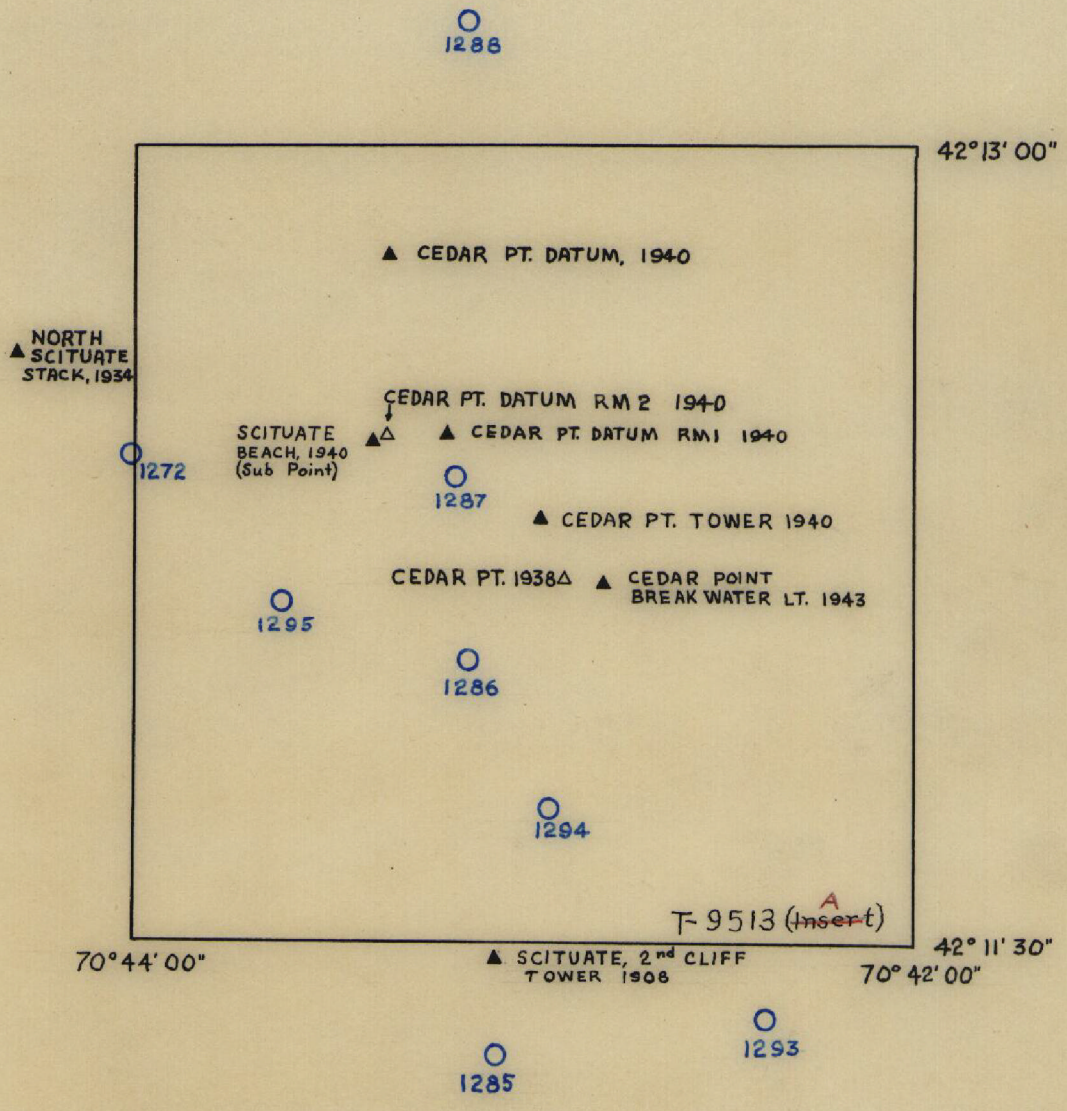
Harry R. Rudolph

Harry R. Rudolph
Cartographer (Photo

LAYOUT SKETCH

PROJECT PH 64(49)
SURVEY NO T-9513 (~~insert~~ A) 1:5,000

○ SINGLE LENS OFFICE PHOTOGRAPHS
△ TRIANGULATION STATIONS (NOT IDENTIFIED, NOT USED)
▲ TRIANGULATION STATIONS (IDENTIFIED, HELD)
▲ TRIANGULATION STATIONS, (NOT HELD IN RADIAL PLOT)



PHOTOGRAMMETRIC PLOT REPORT

PROJECT NO. PH-64(49)

SURVEYS NOS. T-9512 and T-9513

21. AREA COVERED

The area of Surveys Nos. T-9512 and T-9513, scale 1:10,000 covered by this radial plot, is along the coast of Massachusetts from Scituate Harbor, latitude 42° 11¼', northwesterly to longitude 79° 49½', beyond Little Harbor. This radial plot was accomplished to obtain the control necessary for the graphic compilation of Surveys T-9512 and T-9513.

22. METHOD-RADIAL PLOT

Map Manuscripts: The map projections furnished the compilation office are on vinylite, ruled with polyconic projections, and Massachusetts State Grids, 5000 foot intervals, at a scale of 1:10,000. Vinylite base sheets, ruled with base grids, scale 1:10,000, previously furnished for another project, were used for this radial plot.

All control stations and substitute stations were plotted and checked on the map projection sheets using beam compass and meter bar. All identified control stations were transferred to the base sheets by matching common grid lines.

A sketch showing layout of surveys, control stations and photograph centers is attached to this report.

Photographs

The photographs used in this radial plot are all single lens photographs ratioed to a scale of 1:10,000, taken with camera "O" focal length of 6 inches, on 2 June 1950. Thirty-one (31) photographs were used in the radial plot and are numbered as follows:

50-0-1262 thru 50-0-1274
50-0-1284 thru 50-0-1287
50-0-1294 thru 50-0-1307

Symbols for pass points and control stations are in accordance with those shown in part II of the Topographic Manual.

Templets

Vinylite templets were made of all photographs, using a master templet furnished by the Washington Office to correct for paper and film distortion.

Closure and Adjustment to Control

The templets for photographs 50-0-1305, 1306, 1262, and 1263 were sufficiently controlled to obtain good fixes and were laid first. The plot was extended southeasterly holding to identified control and tying in at the southern limits of the surveys with the templet for photograph 50-0-1295. The templets of those photographs lacking identified control

were fixed by holding to pass points established from controlled templets. A satisfactory radial plot was accomplished.

In running the plot, photograph 50-0-1272 was believed to be considerably tilted. The tilt was determined graphically and found to be approximately 3 degrees. The iso-center was plotted on the photograph with rays from it thru the control and pass points drawn with red ink. A new templet was prepapred and could be held in the plot.

The positions of all pass points and photograph centers were transferred directly to the map projection sheets by matching common grid lines.

23. ADEQUACY OF CONTROL

The amount and distribution of control was adequate for a satisfactory plot.

One station SCITUATE CORNER 6, 1885, (T-9512 & T-9512 A) which was identified as "doubtful" could not be held in the plot. The radially-plotted position falls 1.49mm south southwest of the geographic position. No apparent reason for this discrepancy could be found. See Review Report, 6y & sketch on Fm 5524

T-9512 prick. col. puts it 1/2 of road plots E. of road

Substitute point for station BORDER STREET, 1885, falls approximately 7.0 mm south of SCITUATE CORNER 6, 1885, and since the sub point could be held with other control SCITUATE CORNER 6, 1885, was not used in the plot. T-9512

24. SUPPLEMENTAL DATA

No graphic control surveys were used in this radial plot.

25. PHOTOGRAPHY

The photographic coverage was adequate for a satisfactory radial plot. In the area of NORTH SCITUATE STACK, 1934, the two flights intersect making it only possible to obtain slim cuts on radially plotted points in this vicinity. A third flight (1286 & 1287) gave wider-angle cuts with 1295 & 1296. The western towers at WRUL were re-located during review by using the above-mentioned photographs. T-9513

The definition of the photographs is good with the exception of photographs 1284, 1293 and 1294 which have double images, probably due to vacuum failure. Excessive tilt was not apparent except for photograph No. 1272 which was found to be tilted approximately 3 degrees. T-9543 T-9544

26. REMARKS

Several pass points needed to help control the 1:5,000 plot in the area of Survey T-9513 were scaled from this plot and plotted on the map projection for T-9315. After completing the 1:5,000 scale plot, common photo centers and pass points were checked graphically and found to be in agreement.

Respectfully submitted

Joseph Steinberg

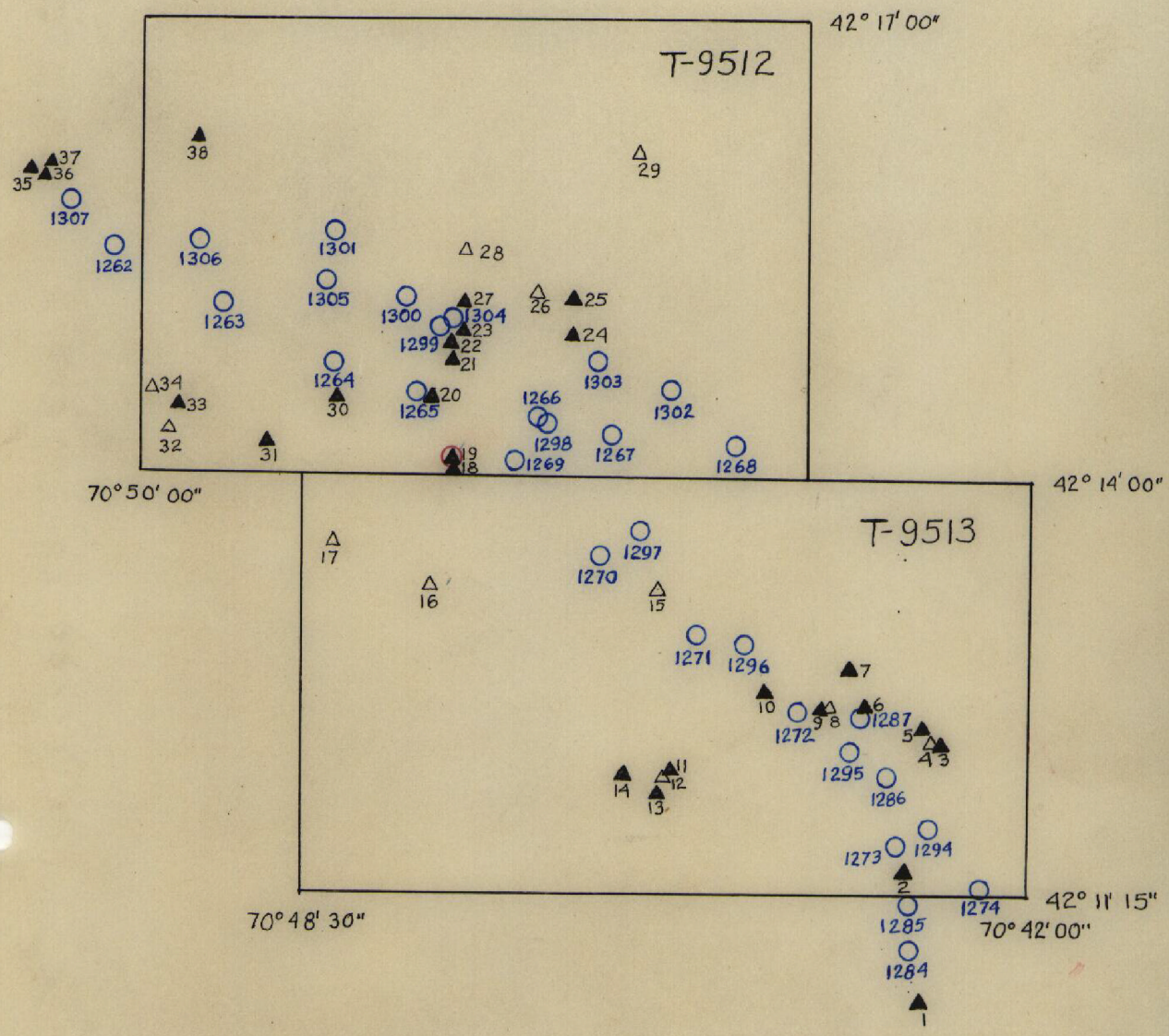
Joseph Steinberg
Photogrammetric Engineer

No.	NAME OF STATION	Recovered	Identification
1.	THIRD CLIFF, SCITUATE OP 1940	Yes	Sub Point
2.	SCITUATE 2nd CLIFF TOWER (TOWER USC&GS) 1908	Yes	Direct
3.	CEDAR POINT BREAKWATER LT., 1943	Yes	Direct
4.	CEDAR POINT, 1938	Yes	None
5.	CEDAR POINT TOWER, 1940	Yes	Direct
6.	CEDAR POINT DATUM RM 1, 1940	Yes	Direct
7.	CEDAR POINT DATUM, 1940	Yes	Direct
8.	CEDAR POINT DATUM, RM 2, 1940	Partial	None
9.	SCITUATE BEACH, 1940	Yes	Sub Point
10.	NORTH SCITUATE STACK, 1934	Yes	Direct
11.	SCITUATE, LAWSON TOWER, 1915	Yes	Direct
12.	LAWSON, 1938	Yes	None
13.	SCITUATE, UNITARIAN CHURCH, 1885	Yes	Direct
14.	SCITUATE, ORTHODOX CHURCH, 1885	Yes	Direct
15.	CAT HILL, 1847	No	None
16.	SCITUATE CORNER 5, 1885	Yes	None
17.	WALNUT HILL, 1885	Yes	None
18.	BORDER STREET, 1885	Yes	Sub Point
19.	SCITUATE CORNER 6, 1885	Yes	By arcs
20.	BRYANT POINT LIGHT, 1950	Yes	Direct
21.	LONG BASIN LIGHT, 1950	Yes	Direct
22.	FOX, 1950	Yes	Direct
23.	WHITE HEAD LIGHT, 1950	Yes	Direct
24.	B 1/9 S 1/9 1943	Yes	Sub Point
25.	STRAWBERRY POINT)USE) (MASS.) 1933	Yes	Sub Point
26.	HAYDENS HOTEL OCEAN HOUSE, 1847	No	None
27.	SUTTON HOLE LIGHT, 1950	Yes	Direct
28.	BARREL ROCK DAYBEACON, 1950	Established	None
29.	MINOTS LEDGE LIGHTHOUSE, 1915	Yes	None
30.	COHASSET CHURCH, 1885	Yes	Direct
31.	CORES (MASS.) 1933	Yes	Sub Point
32.	SCITUATE, 1834	Yes	None
33.	M 3 A7 (MGCS) 1934	Yes	Sub Point
34.	M 3 A6(MGCS) 1934	Yes	None
35.	HULL, GREEN CUPOLA, 1934	Yes	Direct
36.	HULL, TOWN HALL CUPOLA, 1934	Yes	Direct
37.	HULL, CATHOLIC CHURCH CUPOLA, 1934	Yes	Direct
38.	BLACK ROCK 2 (1950)	Yes	Sub Point

LAY OUT SKETCH

PROJECT PH 64 (49)
SURVEYS NOS. T-9512 & T-9513 1:10,000

○ SINGLE LENS OFFICE PHOTOGRAPHS
△ TRIANGULATION STATIONS (NOT IDENTIFIED, NOT USED)
▲ TRIANGULATION STATIONS (IDENTIFIED, HELD)
○ TRIANGULATION STATIONS (NOT HELD IN RADIAL PLOT)



Photogrammetry

MAP T- 9512 PROJECT NO. Ph-64(49) SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-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)
STRAWBERRY POINT (USE)(MASS)1933	G 2174 Pg 27	N.A. 1927	42 15 08.973			276.9 (1574.4)	
			70 46 07.650			175.4 (1200.0)	
CORES(MASS) 1933	G 2174 P. 27	"	42 14 04.117			127.0 (1724.3)	
			70 48 42.144			966.4 (409.4)	
MINOT'S LEDGE LIGHTHOUSE, 1915	G 3091 69	"	42 16 10.584			326.6 (1524.7)	
			70 45 34.743			796.2 (578.8)	
HULL, CATHOLIC CHURCH CUPOLA,1934	G-3091 71	"	42 15 57.159			1763.6 (87.7)	
			70 50 38.495			882.2 (492.9)	
HULL,GREEN CUPOLA 1934	G-3091 102	"	42 15 58.57			1807.2 (44.1)	
			70 50 56.23			1288.7 (86.4)	
HULL, TOWN HALL CUPOLA,1934	G-3091 102	"	42 15 54.52			1682.2 (169.1)	
			70 50 47.55	adm h		1089.8 (285.3)	
SCITUATE , 1834	445	"	42 14 14.070			434.1 (1417.2)	
			70 49 51.267			1175.5 (200.2)	
HAYDEN HOTEL OCEAN HOUSE,1847	445	"	42 15 09.790			302.1 (1549.2)	
			70 46 20.161			462.2 (913.2)	
COHASSET CHURCH, 1885	447	"	42 14 35.054			1081.6 (769.7)	
			70 48 14.050			322.1 (1053.5)	
BORDER STREET, 1885	492	"	42 14 01.990			61.4 (1789.9)	
			70 47 05.275			121.0 (1254.8)	
SCITUATE CORNER 6, 1885	497	"	42 14 05.019			154.9 (1696.4)	
			70 47 05.939			136.2 (1239.6)	
M3A6 (MGCS) 1934	Descript A 125		42 14 28.926			892.5 (958.8)	
			70 49 53.600			1228.9 (146.8)	

1 FT. = .3048006 METER

COMPUTED BY: J.C.Richter DATE 23 Jan. 1951 CHECKED BY: M.F.Kirk DATE 23 Jan. 51

M-2388-12

Photogrammetry

MAP T-9512 PROJECT NO. Ph-64(49) SCALE OF MAP 1:10,000 SCALE FACTOR none

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-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)
M3 A 7 (MGCS) 1934	Description A 125	N.A. 1927	42 14 23.613			728.6 (1122.7)	
			70 49 42.397			972.1 (403.6)	
WHITE HEAD LIGHT, 1950	Confi-dential	"	42 14 56.472			1742.4 (108.9)	
			70 47 02.791			64.0 (1311.5)	
LONG BASIN LIGHT, 1950	Do	"	42 14 47.994			1480.8 (370.5)	
			70 47 07.821			179.3 (1196.3)	
BARREL ROCK DAYBEACON, 1950	Do	"	42 15 30.426			938.8 (912.5)	
			70 47 07.867			180.3 (1194.9)	
BRYANT POINT LIGHT, 1950	"	"	42 14 33.680			1039.2 (812.1)	
			70 47 16.285			373.4 (1002.2)	
SUTTON HOLE LIGHT 1950	"	"	42 15 04.985			153.8 (1697.5)	
			70 47 02.566			58.8 (1316.7)	
BLACK ROCK 2,1950	"	"	42 16 08.046			248.3 (1603.0)	
			70 49 27.900			639.4 (735.6)	
FOX, 1950	"	"	42 14 54.044			1667.5 (183.8)	
			70 47 07.291			167.1 (1208.4)	
~~COHASSET~~ BLACK ROCK, CUPOLA, 1934 p 101			No position see 1939 description 42 - 15 - 41.10 70 - 50 - 30.92	see Review Report		1268.1 708.7	fm 524 filed 15 Jan. 1952
B-1/9 S-1/9, 1943	Confi-dential		42 14 54.726			1688.6 (162.7)	
			70 46 07.300			167.4 (1208.1)	
SUB STA No.1 CORES, 1933			42 14			132.2 (1719.1)	
			70 48			926.0 (449.8)	
SUB.STA. No.2 CORES, 1933			42 14			119.0 (1732.3)	
			70 48			994.0 (431.8)	

1 FT. = .3048006 METER

COMPUTED BY: J.C.Richter DATE 23 Jan. 1951 CHECKED BY: M.F.Kirk DATE 23 Jan. 1951

M-2388-12

Photogrammetry

MAP T- 9512 PROJECT NO. PH-64(49) SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-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)
SUB STA STRAWBERRY Pt. 1933			42 15			275.4 (1575.9)	
			70 46			205.9 (1169.5)	
SUB STA B-1/9 S-1/9 1943			42 14			1688.0 (163.3)	
			70 46			167.8 (1207.7)	
SUB STA M 3A 7 (MGS)			42 14			737.1 (1114.2)	
			70 49			990.2 (385.5)	
SUB STA FOX 1950			42 14			1662.6 (188.7)	
			70 47			159.7 (1215.8)	
SUB STA No.1 BLACK ROCK 2,1950			42 16			277.3 (1574.0)	
			70 49			659.2 (715.8)	
SUB STA No. 2 BLACK ROCK 2, 1950			42 16			262.5 (1588.8)	
			70 49			642.6 (732.4)	
SUB STA BORDER ST. 1885			42 14			74.4 (1776.9)	
			70 47			111.1 (1264.7)	
			All substitute points were removed at time of review				FR

Page 23

1 FT. = .3048006 METER

COMPUTED BY: M.F.Kirk DATE 23 Jan. 1951 CHECKED BY: J.C.Richter DATE 23 Jan. 1951

M-2388-12

Photogrammetry

MAP T-9513 PROJECT NO. Ph-64(49) SCALE OF MAP 1:10,000 SCALE FACTOR none

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-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)
NORTH SCITUATE STACK, 1934	G-3091 71	N.A. 1927	42 12 37.081			1144.1 (707.1)	
			70 44 16.086			369.0 (1007.3)	
SCITUATE, LAWSON TOWER, 1915	G-3091 72	"	42 12 01.694	Ldmk		52.3 (1799.0)	
			70 45 21.038			482.7 (893.8)	
LAWSON, 1938	GTZ G-4249 250	"	42 12 01.214			37.5 (1813.8)	
			70 45 21.383			490.6 (886.0)	
CEDAR POINT, 1938	GTZ G-4249 243	"	42 12 11.605			358.1 (1493.2)	
			70 42 53.766			1233.4 (143.0)	
SCITUATE 2nd CLIFF TOWER(TOWER USCGS) 1908	GTZ G-4249 245	"	42 11 29.433	Ldmk		908.1 (943.1)	
			70 43 04.372			100.3 (1276.4)	
CEDAR POINT TOWER, 1940	G-4548 286	"	42 12 16.746	Ldmk		516.7 (1334.6)	
			70 42 58.796			1348.8 (27.6)	
CEDAR POINT BREAK-WATER LIGHT, 1943	G-5933 399	"	42 12 10.939			337.5 (1513.7)	
			70 42 49.620			1138.3 (238.1)	
CAT HILL, 1847	445	"	42 13 18.593			573.7 (1277.6)	
			70 45 20.350			466.7 (909.3)	
WALNUT HILL, 1885	448	"	42 13 41.311			1274.4 (576.6)	
			70 48 17.276			396.2 (979.7)	
SCITUATE UNITARIAN CHURCH, 1885	449	"	42 11 59.857			1846.8 (4.4)	
			70 45 22.177			508.8 (867.7)	
SCITUATE ORTHODOX CHURCH, 1885	449	"	42 12 01.792			55.3 (1796.0)	
			70 45 36.970			848.2 (528.3)	
SCITUATE CORNER 5, 1885	497	"	42 13 23.229	Recov. card says: Invest. of G.P. & town of Scituate records indicates that this station is: Corner 6 Witness Mark		716.7 (1134.6)	
			70 47 20.203			463.3 (912.7)	

Page 24

1 FT. = .3048006 METER

COMPUTED BY: J.C.Richter DATE 23 January 1951 CHECKED BY: M.F.Kirk DATE 24 Jan. 1951

M-2388-12

Photogrammetry

MAP T-9513 PROJECT NO. Ph-64(49) SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-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)
THIRD CLIFF SCITUATE O.P.1940 A-514 Pr 25	G-4548 515	N.A. 1927	42 10 33.979	South of limit		1048.4 (802.9)	
			70 42 56.425			1295.1 (82.0)	
SCITUATE BEACH 1940	G-4548 515	"	42 12 27.978			863.2 (988.1)	
			70 43 22.362			513.0 (863.4)	
CEDAR POINT DATUM RM 2,1940	" 516	"	42 12 28.006			864.1 (987.2)	
			70 43 22.009			504.9 (871.5)	
CEDAR POINT DATUM 1940	G-4548 516	"	42 12 46.438			1432.8 (418.5)	
			70 43 21.570			494.8 (881.5)	
29B (MGS) 1934	A14	"	42 10 27.256	South of limit		841.0 (1010.3)	
			70 44 41.627			955.4 (421.7)	
CEDAR POINT DATUM DATUM RM 1,1940	G-4548 515	"	42 12 28.681			884.9 (966.4)	
			70 43 13.338			306.0 (1070.4)	
SUB PT THIRD CLIFF SCITUATE O.P. 1940			42 10			1129.4 (721.9)	
			70 42			1325.9 (51.2)	
SUB PT. SCITUATE BEACH, 1940			42 12			897.9 (953.4)	
			70 43			565.8 (810.6)	
			All substitute points were removed during review TS				

Page 25

1 FT. = .3048006 METER

COMPUTED BY: J.C.Richter DATE 23 Jan. 1951 CHECKED BY: M.F.Kirk DATE 24 Jan. 1951

M-2388-12

T-9512 and T-9513

31. DELINEATION

Four separate manuscripts are included in this project of two surveys. The two surveys, drawn to a scale of 1:10,000, were delineated in conjunction with harbor inserts drawn to a scale of 1:5,000 for each survey.
T-9512A, T-9513A = separate maps

Photographs of the insert areas, enlarged to a scale of 1:5,000 were furnished for this phase of the work. See Summary prefacing this Descr. Rept.

The harbor areas were compiled only at the 1:5000 scale and were traced onto the 1:10,000 manuscripts from ratioed reproductions of these inserts.

Because the Kelsh Plotter was assigned to another project, all compilation was done graphically.

32. CONTROL See Review Report, Item 67

The identification of horizontal control was adequate except that BARREL ROCK DAYBEACON, 1950, seems to have been misidentified and there is some doubt as to the identification of SCITUATE CORNER 6, 1885. The density and placement of horizontal control were adequate.

The geographic position of ~~COHASSET~~ BLACK ROCK CUPOLA, 1934 is approximately 1180 meters to the WSW of the location radially plotted from positive field identification. This verifies the recovery of this station by LWS in 1939 as noted on page 2, Cahier 517 - Description of Triangulation Stations, Boston and Vicinity.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours: Inapplicable

Drainage: Drainage was delineated from stereoscopic examination of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate except for about one half mile from longitude 70° 49' 30" to the western limit of T-9512. This section was not field inspected, but was compiled from office interpretation and should be reviewed by the next party visiting the area. Green Hill area.

All shoreline details have been delineated as indicated on the field inspection photographs. Rocks awash that were field identified, as well as additional prominent ones, were delineated. Generalization of rock awash symbols was necessary on some of the rock studded ledge in the foreshore areas.

35. SHORELINE AND ALONGSHORE DETAILS (continued)

Low water and foul lines are based on data furnished by the field party.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS Chart Letter No. 359 (1951)

Forms 567 are being submitted for 2 non-floating aids and two landmarks for charts which have been recommended for deletion. Forms 567 are also being submitted for six nonfloating aids and six landmarks which have been recommended for charting.

38. CONTROL FOR FUTURE SURVEYS

Forms 524 for five recoverable topographic stations are being submitted with this report. The fifth station which is not mentioned in item 11 of the field report has been classified as confidential by the military and is not delineated on the manuscript. Given to Geodesy to be included in their confidential file.

A list of recoverable topographic stations and photo-hydro stations with descriptions of the latter, has been included in Item 49. See also Review Report, 67

39. JUNCTIONS

Junction between T-9512 and T-9513 has been made and is in agreement. There are no other contemporary surveys.

40. HORIZONTAL AND VERTICAL ACCURACY

Some minor difficulty was encountered in the delineation of the NW corner of T-9513 in the area south and west of The Gulf. The area falls on the outer edges of the photographs and due to somewhat indistinct images, scale difference and relief displacement, there is some doubt as to the accuracy of shape and placement of buildings.

Four photographs made good-angle cuts in this area and each of these photographs held to at least three control points. Delineation is within the required accuracy.

41-45 Inapplicable.

46. COMPARISON WITH EXISTING MAPS

The manuscripts were compared with the following maps:

1) U.S.G.S. Nantasket, Mass.quadrangle, scale 1:31,680, edition of 1941, reprinted in 1949.

2) U.S.G.S. Cohasset, Mass. quadrangle scale 1:31,680, edition of 1941.

3) A.M.S. Scituate, Mass. quadrangle, sheet 6868 II NW, series 814, scale 1:25,000, edition of 1947.

4) A.M.S.Cohasset, Mass. quadrangle, sheet 6868 III NE, series 814, scale 1:25,000, edition of 1947.

5) A.M.S. Nantasket, Mass. quadrangle, sheet 6868 IV SE, series 814, scale 1:25,000, edition of 1947.

47. COMPARISON WITH NAUTICAL CHARTS

The manuscripts were compared with the following charts:

1) Cohasset Harbor Chart No. 242, scale 1:5,000, ,published 2-26-51, corrected to 3-5-51.

2) Scituate Harbor Chart No. 232, scale 1:5,000, published 5-1-50 (no correction date).

3) Boston Harbor Chart No.246, scale 1:25,000 published 9-12-49 (no correction date).

Items to be applied to nautical charts immediately:
None.

Items to be carried forward:
None.

Respectfully submitted

Raymond Glaser

Raymond Glaser
Cartographic/Photo. Aid

Approved and forwarded

Hubert A. Paton

Hubert A. Paton
Comdr., C&GS
Officer in Charge

48. GEOGRAPHIC NAME LIST

Ann Vinal Road
Atlantic Avenue

Bailey Creek
Bar Rocks
Barrel Rock
Bassing Beach
Beach Island
Beach Street
Beechwood Station
Big Quamino Rock
Black Ledge
Black Rocks
Boardman Avenue
Booth Hill Road
Border Road
Briggs Harbor
Brook Street
Brush Island
Brush Ledge

* Buckhorn Rock

Cedar Point
Chest Ledge
* Chittenden Rock
Cohasset
Cohasset Cove
Cohasset Harbor
Cohasset Yacht Club
Country Way
Cowen Rocks
Cunningham Bridge

Discovery of Cohasset Memorial

* East Hogshead Rock
East Round Rock
East Shag Rock
* Enos Ledge

First Cliff
First Parish Road
Forest Avenue

Gangway Passage
Gannett Road
Green Hill
Gulf Island
Gull Island

Geographic Name List (continued)

Hatherly Beach
Hatherly Country Club (added to manuscript T-9572)
Hatherly Road
Hog Rock
* Hogshead Rock
Hollett Street

* Inner Minot

* Jack Rock
James River
Jericho Road
Jerusalem Road

Kent Rocks (add finals on main sheet)

Little Harbor
* Little Quamino Rock
Little White Head

Mann Hill
Mann Hill Beach
Massachusetts Bay
Minot
* Minots Ledge
* Mike Ledges (add final s)
Musquashiat Pond
Musquashiat Brook
New York, New Haven and Hartford RR
Nichols Road
* Norfolk County
North Main Street
North Scituate
North Scituate Beach

Old Sow
Osher Ledge
* Outer Minot

Peggotty Beach
* Plymouth County

Quarry Point

Round Rock

Sand Hills = one word
Sandy Cove
Scituate
Scituate Harbor
Scituate Neck
Second Cliff
Sheep Ponds
Satuit Brook

48. Geographic Names (continued)

Sheppard Ledges
Shore Acres
South Main Street
[redacted] Street
Straits Pond
Strawberry Point
Sutton Rocks (add S on main sheet)

The Glades ✓
The Grampuses
The Gulf ✓

Names underlined in red are approved.
1-16-52
L. Heck

The Hazards
* The Twins
Tilden Street Road ✓
Tobias Ledge
Town Landing
Town Pier
Turner Avenue

* W Hogshead Rock
Well Rock
West Shag Rock
West Willies
White Head (delete Pt. from main sheet)
White Rock
Willow Street
Windmill Point

* Name is penciled on manuscript - feature to which name applies could not be delineated on manuscript.

Union Cemetery (S. of Scituate, T-9513) - on manuscript
Western Channel (T9512 - as on chart 246) ✓
Sea Ledge (T9512 - SW. of Black Ledge) ✓
Eastern Channel (T9512 - as on chart 246) ✓
Scituate Yacht Club - on manuscript.
Sohier Street in Cohasset - on manuscript

Following lighthouse names are also approved (in Cohasset Harbor)
Sutton Hole
White Head
Long Basin
Bryant Point

49. NOTES FOR THE HYDROGRAPHER

The following is a tabulation of photo-hydro stations for T-9512 and T-9513, Ph-64(49):

Photo-hydro Station No.		Description	Photo. No.
~~121~~	107	Top of the belfry on the fire company at Cohasset.	50-0-1265
~~122~~	108	Tower of an imitation lighthouse at the southeast corner of HUGO'S RESTAURANT	-1265
~~123~~	112	Wooden mast or flagpole, 25' tall, and is 10' north of the northeast corner of a cabin.	-1265
~~124~~	102	Small boat davit (iron pipe-3' high) projecting from the end of a concrete pier.	-1265
131		On the outer tip of jetty projecting SW into Scituate Harbor. It is a pile of rocks surmounted by one large square boulder.	-1295
132		A short square brick chimney painted white with a black trim on top. It is in the center of the ridgepole of a white house with black shingle roof and three dormer windows facing harbor. Address: 39 Lighthouse Road.	-1295
133		Short white chimney, cement finish, in the center of ridgepole. It is on a one story beach house that has gray shingles on side and black shingles on roof. Address is 18 Lighthouse Road.	-1295
134		Gable at the southeast side of a dwelling that resembles a barn. Sides are covered with wooden shingles painted red. Roof is covered with asbestos shingles (black). There are two windows beneath the gable. Address: 146 Jericho Road.	-1295
135		White wooden flagstaff and yardarm on the lawn of the Scituate Harbor Yacht Club. It is 21 feet east of the east edge of the tennis courts and nearly in line with the nets across the courts.	-1295
136		East gable of a two story dwelling. Sides are covered with wooden shingles painted yellow; roof is covered with dull green shingles. There are three large windows below apex of gable. Address: 27 JerichoRoad.	-1295

Photo-hydro Station No.	Description	Photo. No.
137	East gable of a one story structure built over the water. Beneath the apex of gable is a small window and below it a double white door. Building is used for sale of lobsters. Address is 206 Front Street, owner is Mr. Dyer.	50-0-1295
138	Spire on the Saint May ofthe Nativity stone church located on First Parish Road. The square shaped (shingled) spire is surmounted by a gilt ball and cross.	50-0-1295
139	Center of the end of the westerly fender of the Coast Guard dock.	50-0-1295

The following recoverable topographic stations are shown on the manuscripts:

CROW, 1950 T-9513
DAVE, 1950 T-9512
MAST, 1950 T-9513
MIKE, 1950 T-9512
See also Revised Report, 67(2)

One other, a classified recoverable topographic station, TOWER, 1950, T-9512 has not been delineated on the manuscript but is reported on Form 524. Given to Geodesy to be included in their conf. file. JS

Offshore details to be proved, disproved, or located by the hydrographic party are indicated on chart sections accompanying this report.

Also locate in position the islands, rocks or ledges to which the names penciled on the manuscript applies. A list of these names, for which no feature could be located in the compilation office, is included here for your convenience.

Buckhorn Rock	Hogshead Rock	Minots Ledge	Plymouth County
Chittenden Rock	Inner Minot	Mike Ledge	The Twins
East Hogshead Rock	Jack Rock	Norfolk County	W Hogshead Rock
Enos Ledge	Little Quamino Rock	Outer Minot	

T-9512 - T-9513
Additional Photo-Hydro Stations

The original field inspection and compilation on these manuscripts include comparatively few photo-hydro stations as listed on the preceding ~~sheets~~. Additional stations have been selected and located on the manuscripts at the Washington Office in May 1952. These additional stations are listed and described below. These stations may be marked for hydrographic control or they may be used as located points from which hydrographic signals can be located by distance and direction. All of the photo-hydro stations are identified on the set of field photographs and these photographs will be provided the hydrographic party to assist that party in the recovery of the stations.

*Denotes 1:5,000 photo.

Photo. Hydro Station No.	Description	Field Photo Number
095	Foot of stairway at edge of grassline	1263
096	North gable of barn-like structure	1263
097	North gable of small house	1263
098	Light-colored chimney of large prominent house on bluff	1263
099	Center of large boulder out from small house and just offshore from MHWL	1263
100	Iron rod pier supports	1305
101	At HWL on narrow rock arm which projects south from 8' rock	1265*
102	See Descriptive Report (article 49)	1265*
103	Prominent chimney on large house	1265*
104	Highest party (?) of pinnacle rock just seaward of HWL on 16' rock	1265*
105	Chimney on large house at end of bluff point	1265*
106	Corner of wall	1266*
107	See Descriptive Report (article 49)	1265*
108	See Descriptive Report (article 49)	1265*
109	Northeast corner of pier	1266*
110	West gable of barn-like structure	1265*
111	3-foot rock at end of jetty	1265*
112	See Descriptive Report (article 49)	1265*
113	Northern end of 3-foot rock	1266*
114	Highest part (?) of 3-foot rock	1266*
115	More easterly of two large boulders at grass and bluff line and just out from house	1266*
116	Eastern end of center one of 3 rocks awash on western end of Osher Ledge.	1303
117	Highest part(?) of low rock (awash or 1 ft. at MHW) just offshore of rock bluff	1303
118	Corner of concrete sea wall	1303
119	Small pond (or black spot) roughly 10 meters north of high east-west ridge of "Bar Rocks"	1302
120	Corner of concrete seawall	1303
121	North corner of platform which contains concrete steps	1270

*Denotes 1:5000 photo

Photo-Hydro Station No.	Description	Field Photo Number
122	End of concrete seawall	1270
123	NE corner of light-colored rectangular tower on top of building	1270
124	NE corner of light-colored awning(?) which covers north and east sides of building	1271
125	Corner of concrete seawall	1271
126	End of concrete seawall	1271
127	Intersection of walkway and concrete seawall	1271
128	North gable of house	1271
129	Wooden gate in concrete seawall	1272
130	NE gable of detached light-colored house	1286*
131	See Descriptive Report (article 49)	
131a	NW corner of very small wharf	1286*
132)		
133)	See Descriptive Report (article 49)	
134)		
134a	Largest and most SE'ly of 3 boulders which project just above MHW	1286*
135	See Descriptive Report (article 49)	
135a	South corner of end of pier	1286*
136	See Descriptive Report (article 49)	
136a	NE corner of "Town Pier"	1286*
137	See Descriptive Report (article 49)	
138	" " " " "	
139	" " " " "	
140	Large boulder just east of crest of jetty, about 9 meters from end.	1286*
141	NE corner of light-colored wall(?) enclosing eastern part of building	1286*
142	Seaward corner of light-colored wall(?) enclosing south end of building	1286*
143	SE corner of more southerly of two small outbuildings	
144	Peak of seaward gable of house	1286*

Form T-2

50-

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9512
T- 9513

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

~~31. Boundary lines~~ _____ 32. ~~Public land lines~~ _____

MISCELLANEOUS

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

40. Raymond Black — 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:

M-2623-12

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ~~OR LANDMARKS FOR CHARTS~~

TO BE CHARTED / ~~TO BE DELETED~~ } STRIKE OUT ONE

Scituate, Mass 11/17, 1950

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

The positions given have been checked after listing by Dave Lafferman

Comdr. H. A. Paton *Chief of Party.*

STATE: Massachusetts

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION: LATITUDE ° '	LATITUDE D.M. METERS	LONGITUDE ° '	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
Fl R ev 4 sec	~~4~~ Station "CEDAR POINT BREAKWATER LIGHT"		42 12	337.5	70 42	1138.3	1927	Triang. 9513	Oct. 1950	x		x	242,1207
Bn.	Barrel Rock Daybn.--barrel on spindel	Conf.	42 15.	938.8	70 47.1	180.3	"	Triang. 9512	"	x	x	x	242,246, 1207
Fl ev 4 sec.	Sutton Hole Light	Conf.	42 15.	153.8	70 47.1	58.8	"	"	"	x	x	x	"
Fl R ev 4 sec	White Head Light	Conf.	42 14.	1742.4	70 47.1	64.0	"	"	"	x	x	x	"
FlR ev 4 Sec	Long Basin Light	Conf.	42 14.	1480.8	70 47.2	179.3	"	"	"	x	x	x	"
~~4 sec~~ FLR ev	Bryant Pt. Light	Conf	42 14.	1039.2	70 47.3	373.4	"	"	"	x	x	x	"

Let No. 35 (5-1)

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.

U. S. GOVERNMENT PRINTING OFFICE: 1949 O - 853418

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

~~NONFLOATING AIDS OR~~ LANDMARKS FOR CHARTS

TO BE CHARTED / ~~TO BE DELETED~~ } STRIKE OUT ONE

Scituate, Mass. 11/17, 1950

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

The positions given have been checked after listing by Dave Lafferman

Hubert A. Paton *Chief of Party.*

STATE: Massachusetts

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION: LATITUDE ° ′	LATITUDE D.M. METERS	LONGITUDE ° ′	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
TOWER	△ Station "Second Cliff Tower-1908-43"		42 11	908.1	70 43	100.3	1927	~~Rad Plot~~ 9513	Oct. 1950	x			232
CUPOLA	Coast Guard Station No. 27		42 11	1726	70 43	27	1927	Rad.Plot " Trieng.	"	x			232
OLD TOWER	△ Station "CEDAR POINT TOWER-1940-43"(Aband.Lighthouse)		42 12	516.7	70 42	1348.8	1927	"	"	x		x	232, 1207
TOWER	△ Station "Scituate, Lawson Tower 1915-34-35"		42 12	52.3	70-45	482.7	1927	"	"			x	1207
CUPOLA	△ Station "HULL, Town Hall Cupola-1934-39"		42 15	1682.2	70-50	1089.8	1927	~~Triang.~~ 9512	"			x	246
TOWER	Concrete, military lookout, Black-Lt. 67' (117') Conf. (AB 3/4 SE, 1943)		42 14.	1688.6	70-46.	167.4	"	"	"	x	x	x	242, 1207 246

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.

U. S. GOVERNMENT PRINTING OFFICE: 1949 O - 853418

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR ~~LANDMARKS FOR CHARTS~~

~~TO BE CHARTED~~ / TO BE DELETED } STRIKE OUT ONE

SCITUATE, MASS. 11/17, 1950

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

The positions given have been checked after listing by Dave Lafferman

Comdr. H. A. Paton *Chief of Party.*

STATE Massachusetts

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D.M. METERS	LONGITUDE ° ′	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
BN	Unknown		42 12.2		70 43.1			9513		x			232
* BN	Tobias Rock Daybeacon		42 15.3		70 45.7			9512		x	x		242,246 1207

* 26 Oct. 1950 "Notice to Mariners" reports this to be replaced in near future

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.

U. S. GOVERNMENT PRINTING OFFICE: 1949 O - 853418

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

~~NONFLOATING AIDS OR~~ LANDMARKS FOR CHARTS

~~TO BE CHARTED~~ / TO BE DELETED — STRIKE OUT ONE

SCITUATE, MASS. 17 Nov. 1950

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

The positions given have been checked after listing by Dave Lafferman

Comdr. H. A. Paton *Chief of Party.*

STATE Massachusetts

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LAT. D.M. METERS	POSITION LONGITUDE ° ′	LONG. D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
STACK	△ Station "North Scituate Stack" – 1934		42 12	1144.1	70 44	369.0	1927	9513	1934			x	1207
CUP	Squat Cupola at northwest tip of peninsula (The Glades)		42 15.2		70 46.3			9512		x			242

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 the individual field survey sheets. Information under each column heading should be given.

U. S. GOVERNMENT PRINTING OFFICE: 1949 O - 853418

* Classification Removed

REVIEW REPORT
Shoreline Manuscripts T-9512 (Confidential*) and T-9513
Harbor Manuscripts T-9512-A (Confidential) and T-9513-A
15 January 1952

62. Comparison with Registered Topographic Surveys:

T-228	1:10,000	1847	with contours
236bis	"	"	"
2183	"	1894	"
2183A	1:5,000	1895	"
2208	1:10,000	1914	
2208A	1:5,000	1914	
4062	"	1924	
5752	"	1944	

63. Comparison with Maps of Other Agencies:

USE	Nantasket, Mass.	1:25,000	1947
USE	Cohasset "	"	"
USE	Scituate "	"	"

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

*232, Scituate Harbor, 1:5,000, ed. July 1940, rev. June 1944
*242, Cohasset Harbor, 1:5,000, ed. July 1939, rev. Feb. 1951
246, Boston Harbor, 1:25,000, ed. Mar. 1948, rev. Feb. 1951
1207, Massachusetts Bay, 1:80,000, ed. July 1945, rev. June 1950

*Comparison between these charts and the map manuscripts could be made by laying the acetate over the charts.

Shoreline, piers, roads differ radically in many places throughout the area. Delineated rocks and islands conform to field inspection data, but this inspection is incomplete both as to number of rocks and extent and location of ledges, particularly of those farther seaward. This information will be amended and completed by a future hydrographic survey.

On chart 232 the positions of Cedar Point Light, Cedar Point Tower ("Old Tower") and Scituate 2nd Cliff Tower agree with those on the map manuscript. "Old Sow" rock is the only rock common to the chart and the map manuscript. It is shown on Chart 232 as an islet baring 2' at MHW, whereas T-9512 and T-9513-A give a baring of 3' at MLW. This needs verification. verified (8) 6-52 H-8010 SFG

A marked copy of chart 242 attached to the Descriptive Report obviates a listing of differences in off-shore features.

Of the six aids to navigation, only Minots Ledge Lt. and Barrel Rock Daybeacon have position agreement. Sutton Hole, WhiteHead, Long Basin, and Bryant Lights are west or northwest of chart positions. Manuscript positions are of third order triangulation value established during the 1950 field work. Their positions supersede those on the chart.

66. Accuracy of Results and Future Surveys:

Except as noted in heading 65 the map manuscript complies with project instructions and meets the National Standards of Accuracy.

67. Control:

1. Black Rock Cupola 1934 (d): The station, as described in No. 517, p. 2, was recovered in 1939 and again in 1950 but the Geographic Position, p. 101, locates it about 1180 m. southwesterly from the recovered station (not marked). A form 524 has been submitted for the cupola and the accompanying description and sketch notes the discrepancy between the triangulation description and the listed geographic position .

2. Scituate Corner 6, 1885 (n.d.). A monument was recovered in 1950 which was assumed to be Corner 6 and a description and a pricking card sketch with measurements were filed. The recovered monument appears to be the "bound" mentioned in the description for BORDER STREET, 1885, No. 517, p. 1, submitted by KTA in 1933. The plotted position for Corner 6 falls on the east side of Border Street and about 49 ft. northeast of the recovered monument on the west side of Border Street. A form 524 has been filed in order to have record of the position of the recovered monument.

Geodesy was orally informed of this procedure and descriptive notes and sketches were given them explaining the difficulties in order to facilitate any future adjustments or inspection.

The control established in 1950 was classified "confidential". The computations are filed in Geodesy and bear the accession number 844/GT7, G-8884. All of the stations fall on T-9512 and T-9512-A so that these manuscripts and the Descriptive Report are labeled "CONFIDENTIAL"* and will be filed with others in this category. Chart Letter No. 359 (1951) has been marked also.

Reviewed by:

* Classification Removed 6/20/52

Lena T. Stevens

Lena T. Stevens

Approved:

S. V. Griffith
Chief, Review Section B
Division of Photogrammetry

H. A. Edmonston
Chief, Nautical Chart Branch
Division of Charts GFJ

O. I. Reading
Chief, Division Photogrammetry

Earl O. Heston
Chief, Div. Coastal Surveys GRT

Note:
A considerable amount of rock ledge and gravel bars were added to the manuscript T-9512A in purple ink from photographs taken in June 1952. These photos were taken at approximate mean low water.

H.R. Brooks
2-26-54

Piers and shoreline connections added from the same photographs. 3-12-54
H.R.B.

Map manuscript number changed from T-9512A
To RS-507
12-13-54
H.R.B.

G2-TMJ897 20 June 1952

MEMORANDUM FOR: DIRECTOR, U.S. COAST AND GEODETIC SURVEY, DEPARTMENT OF COMMERCE
ATTENTION: Administrative Planning Section

SUBJECT: Classification Clearance of USC&GS Shoreline Manuscripts

1. Reference is made to your memorandum, 734-cfl, dated 23 May 1952, forwarding shoreline manuscripts Nos. T-9512 and T-9512A for security clearance.

2. The subject manuscripts are returned herewith. There is no objection to their publication in unclassified form.

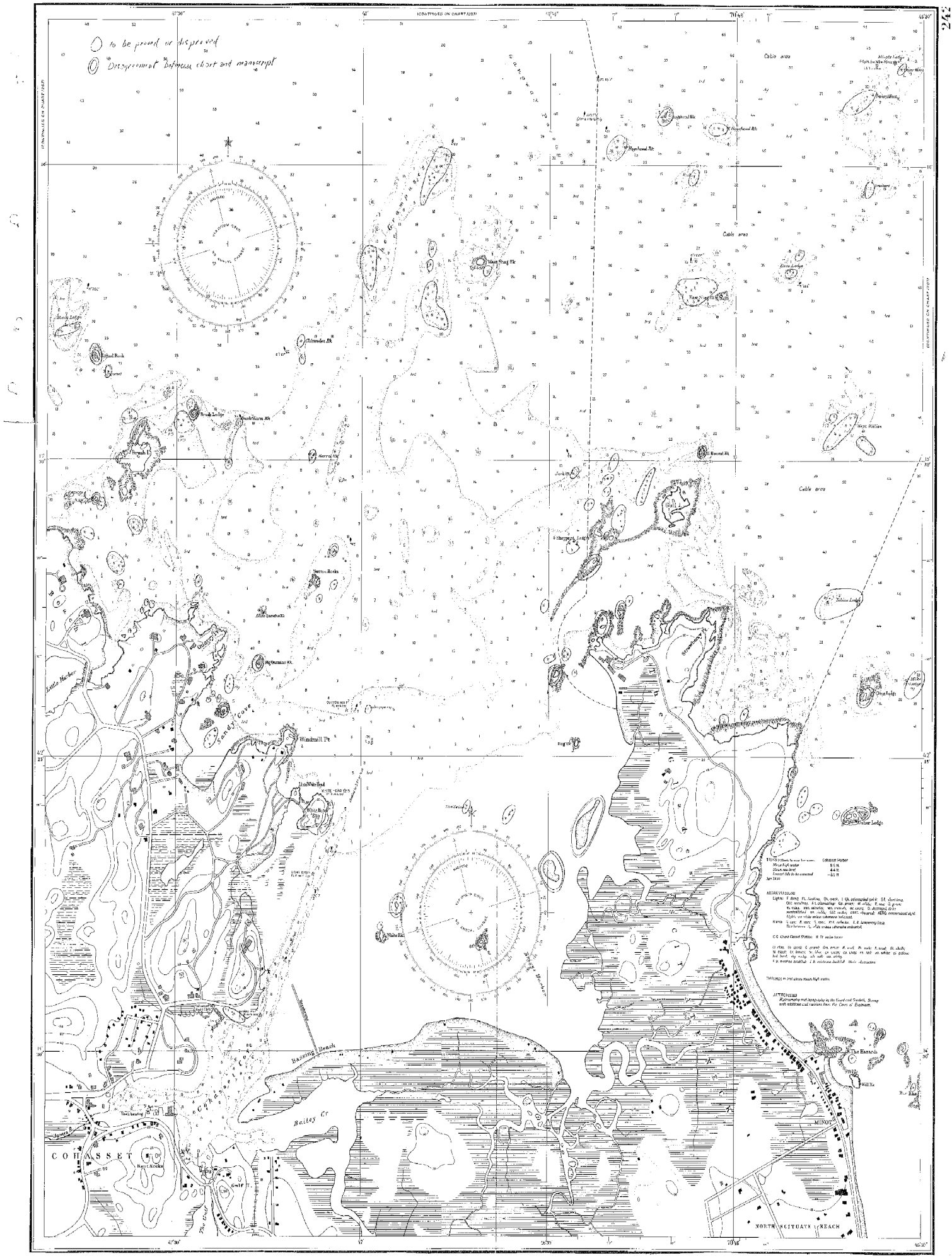
FOR THE ASSISTANT CHIEF OF STAFF, G-2:

2 Incl
1. Manuscript T-9512
2. " T-9512A

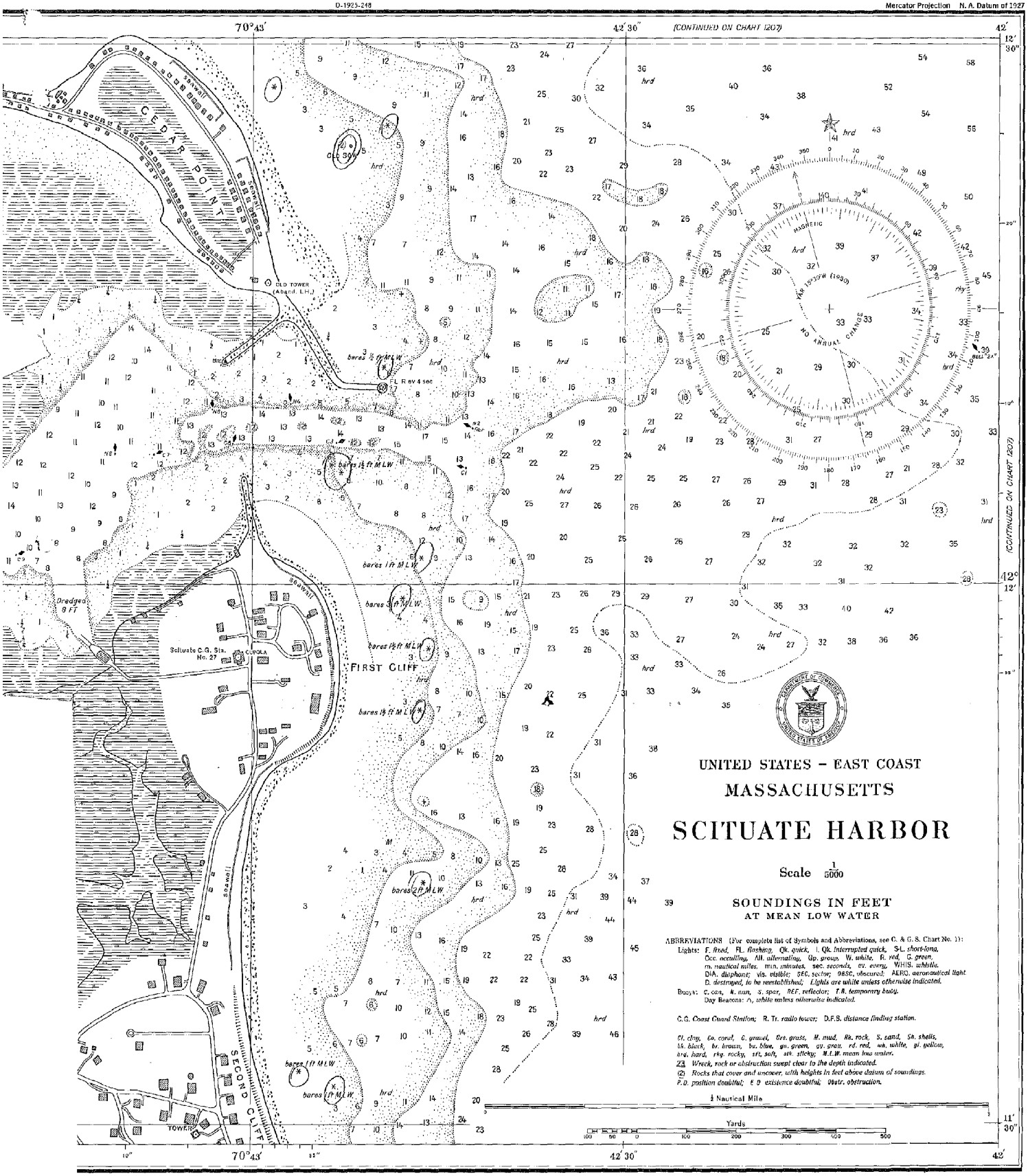
HARRY R. BOYD
Colonel, GS
Chief, Training Division

○ to be proved or disproved

○ Disagreement between chart and manuscript


CONTINUED ON CHART 1207
CONTINUED ON CHART 1209
Cable area
Cable area
Cable area
Minots Ledge
Minots Light
Scituate Harbor
Cohasset Rocks
Bailey Cr
Hull
Hull Bl
Windmill Pt
Sandy Cove
Little Harbor
Gulf
Gulf I.
Brush I.
Brush Ledge
Brush Island Rk
Shag Rk
Shag Rock Ledge
Shady Ledge
Ledge
Ledge

Mercator Projection N. A. Datum of 1927



UNITED STATES – EAST COAST

MASSACHUSETTS

SCITUATE HARBOR

Scale $\frac{1}{5000}$

SOUNDINGS IN FEET
AT MEAN LOW WATER

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see C. & G. S. Chart No. 1):

Lights: *F. fixed, Fl. flashing, Qk. quick, I. Qk. interrupted quick, S-L. short-long, Occ. occulting, Alt. alternating, Gp. group, W. white, R. red, G. green, m. nautical miles, min. minutes, sec. seconds, ev. every, W.HIS. whistle, D/A. diaphone; vis. visible; SEC. sector; OBSC. obscured; AERO. aeronautical light. D. destroyed, to be reestablished; Lights are white unless otherwise indicated.*

Buoys: *C. can, N. nun, S. spar, REF. reflector; T.B. temporary buoy.*
Day Beacons: *A, white unless otherwise indicated.*

C.G. Coast Guard Station; R. Tr. radio tower; D.F.S. distance finding station.

Cl. clay, Co. coral, G. gravel, Gre. grass, M. mud, Rk. rock, S. sand, Sh. shells, bk. black, br. brown, bu. blue, gn. green, gy. gray, rd. red, wh. white, yl. yellow, hrd. hard, rky. rocky, sft. soft, stk. sticky; M.L.W. mean low water.

23. Wreck, rock or obstruction swept clear to the depth indicated.

(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

P.D. position doubtful; E.D. existence doubtful; Obstr. obstruction.

Published at Washington, D. C., July 1940 (6th Edition)
(First Edition 1926)
U. S. COAST AND GEODETIC SURVEY
L. O. Colbert, Director

LIGHTS, BEACONS, BUOYS, AND DANGERS CORRECTED FOR INFORMATION RECEIVED TO THE FOLLOWING DATE

FEB 26 1951

(Scituate Harbor) U.S.C.&G.S. 232

○ to be proved or disproved PRICE 25 CENTS

○ discrepancy between chart and manuscript.

NAUTICAL CHARTS BRANCH

SURVEY NO. T-9513

T-9512 → Partially applied to 1207

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
7/20/51	232	H.W Burgoyne	Before ~~After Verification and~~ Review — Partially Applied
4/24/52	1207	H.W Burgoyne	Before ~~After Verification and Review~~ Partially Applied
4-20-73	246	G Healey	~~Before~~ After Verification and Review ADEQUATELY APPD Part superceded by BPs 98867, 98352 L-5157 67 + BP 98631
5-2-73	1207	Lyale R Everhart	~~Before~~ After Verification and Review CONSIDERED ADEQUATELY SUPERCEDED BY BP-98352, APPLIED - NO CORRECTIONS: BP-98493 & BP-98361.
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.