

T-12982

T-12982

FORM C&GS-504	
U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	Shoreline (Photogrammetric)
Field No.	Office No. T-12982
LOCALITY	
State	Massachusetts
General locality	Boston to Plum Island
Locality	Nahant Bay
19 66-69	
CHIEF OF PARTY	
Alfred C. Holmes, Director, AMC	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T-12982

OBJECT NO. (II): Job-Ph-6601		
FIELD OFFICE (III): None		CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center, Norfolk, VA		OFFICER-IN-CHARGE Alfred C. Holmes, Director, AMC
INSTRUCTIONS DATED (II) (III): Field - August 4, 1965 Field - August 19, 1965 Provisional Instructions, Aerial Photography Office - October 8, 1965 Instructions, Aerotriangulation Office - January 27, 1966 Office - February 2, 1966 Instructions, Aerotriangulation Office - April 28, 1966 Field - May 20, 1966 Supplement I Office - July 11, 1966 Supplement I		
METHOD OF COMPILATION (III): Wild B-8 and Graphic		
MANUSCRIPT SCALE (III): 1:10,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:15,000 Pantographed to 1:10,000
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
APPLIED TO CHART NO.		DATE: SEPT 1975
GEOGRAPHIC DATUM (III): NA 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): SWAMPSCOTT LARGER STANDPIPE 1934		
LAT.: 42° 28' 39.252"	LONG.: 70° 54' 37.805"	☒ ADJUSTED ☐ UNADJUSTED
PLANE COORDINATES (IV): y = 538 975.95 Ft. x = 759 032.92 Ft.		STATE MASS
		ZONE Mainland
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.		

DESCRIPTIVE REPORT - DATA RECORD

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FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation, Date of Photography: August 24, 1965		
PROJECTION AND GRIDS RULED BY (IV): A.E. Roundtree		DATE 5/27/66
PROJECTION AND GRIDS CHECKED BY (IV): None		DATE
CONTROL PLOTTED BY (III): L. Neterer		DATE 9/20/66
CONTROL CHECKED BY (III): A. Santillan		DATE 9/20/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): H.P. Eichert		DATE 11/1/66
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY B. Barnes	DATE 4/27/67
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): R. White		DATE Sept. 1967
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): B. Wilson		DATE 10/9/67
REMARKS: Field Edit By: E.W. Hartford August - September 1969		

DESCRIPTIVE REPORT - DATA RECORD

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CAMERA (KIND OR SOURCE) (III):

1S1 CAMERA

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65-S-6935R-6937R	24 Aug. 65	08:48	1:30,000	+8.3 Above MLW*
65-S-(c)-7237-7239	31 Aug. 65	07:45	1:30,000	-0.3 Below MLW*
65-S-7195R-7196R	25 Aug. 65	10:17	1:15,000	+8.4 Above MLW*
65-S-7349-7350	31 Aug. 65	09:05	1:15,000	-0.1 Below MLW*

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Boston		9.5	11.0
SUBORDINATE STATION: Nahant		9.0	10.4
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Bernhard Kurs, AMC

DATE:
November, 1973

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

8

RECOVERED:

6

IDENTIFIED:

6

NUMBER OF BM(S) SEARCHED FOR (II):

0

RECOVERED:

0

IDENTIFIED:

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

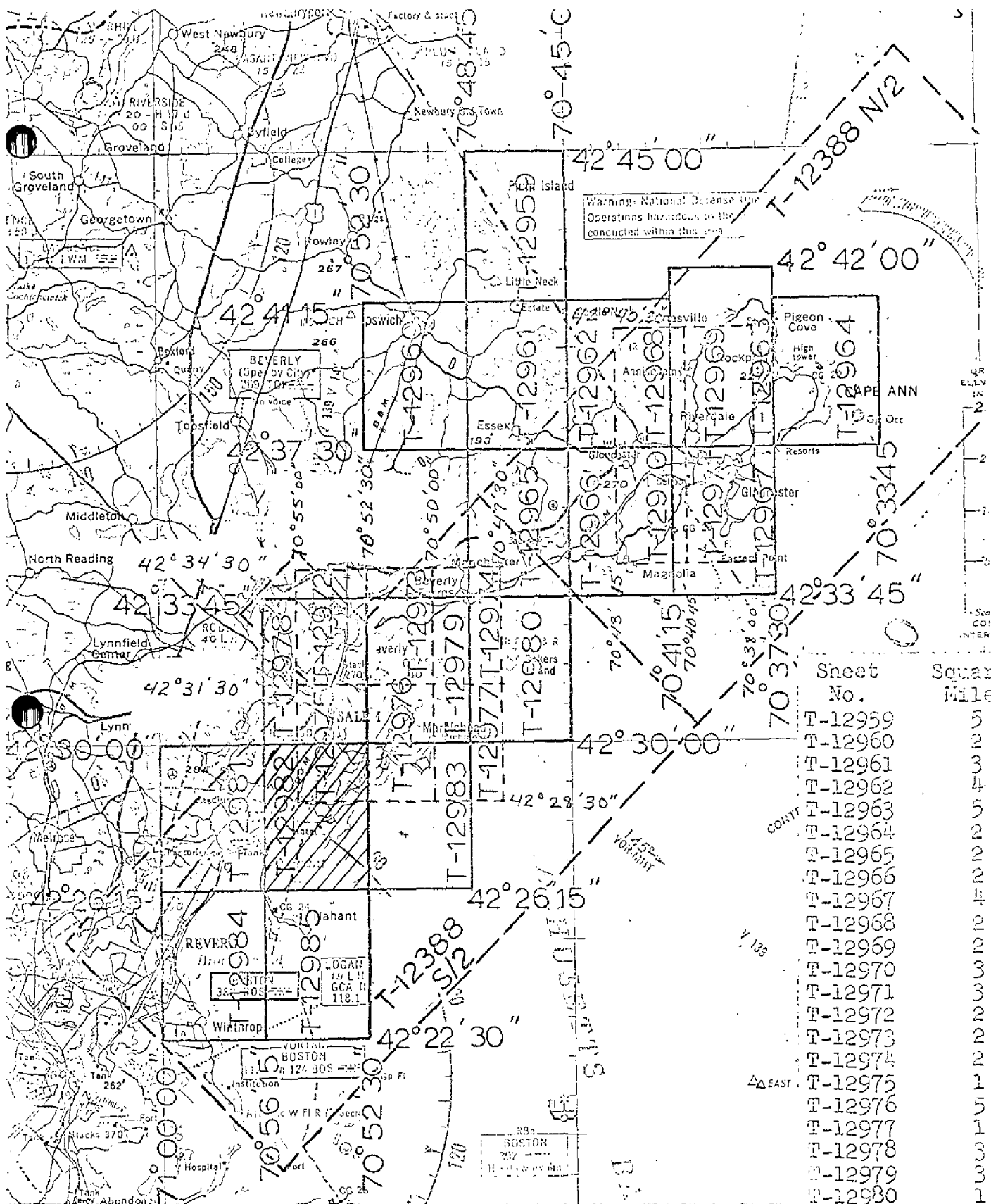
0

REMARKS:

*The stage of tide at the time of photography was determined by readings on a staff at Gloucester Harbor (Ten Pound Island). See instructions (Office) dated April 28, 1966.

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COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	Sept. 67	Superseded
Transfer of F.E. from re- duction of T-12975	Nov. 5, 1969 CHB	Superseded
Sept. 1969 Field Edit Applied	Nov. 1969	Superseded
Final Review	Nov. 1973	



JOB PH-6601

BOSTON TO PLUM ISLAND

TOPOGRAPHIC MAPPING AT 1:5,000 & 1:10,000 SCALE

CHART 613-SC

CHART TOPOGRAPHY AT 1:40,000 SCALE

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS PH-6601

This shoreline manuscript is one of thirty-one maps that make up this project. The primary purpose of the project is to provide contemporary shoreline for nautical chart construction. Maps were also used to provide photogrammetric hydro support data for the hydrographic surveys to be conducted in the same area.

The only field work prior to compilation was recovery and identification of horizontal control required for aerotriangulation.

Field edit was accomplished by a photogrammetric field party during the years 1967, 1968, 1969 and 1970. The field edit was adequate.

Cronaflex positives and ozalids of the manuscripts were furnished for the use of the field editor and the preparation of the hydrographers boat sheets. Accompanying these were specially prepared ratio photographs to aid in the location of hydrographic signals.

Final review was accomplished at the Atlantic Marine Center from September, 1973 to April, 1974.

A cronaflex positive and negative of each reviewed manuscript are being forwarded for record and registry.

FIELD INSPECTION REPORT

T-12982

There was no field inspection prior to compilation.

PHOTOGRAMMETRIC PLOT REPORT
Job PH-6601
Boston to Plum Island, Massachusetts

November 1, 1966

21. Area Covered

This report covers aerotriangulation for 1:5,000 and 1:10,000 scale surveys in an area north of Boston, Massachusetts. The 1:5,000 scale surveys are T-12968 thru T-12977; the 1:10,000 scale surveys are T-12959 thru T-12967 and T-12978 thru T-12985.

22. Method

Four strips were bridged by the analytic method. Strip 1 was at a scale of 1:30,000 using infrared photography; Strips 2 and 3 at a scale of 1:30,000 using color film; and Strip 4 using color film at a scale of 1:15,000.

The 1:30,000 scale bridges were to be used for the 1:10,000 scale compilation. The four-model 1:15,000 scale bridge was necessary to complete coverage on surveys T-12972 and T-12978.

Common points between the 1:30,000 and 1:15,000 scale photography were selected. Plane coordinate positions from our bridges were determined so that 1:15,000 scale models could be controlled to compile the 1:5,000 scale surveys. Plane coordinates are on the Massachusetts State Grid (Mainland). The attached aerotriangulation sketch shows location of strips bridged. Closures to control have been tabulated.

23. Adequacy of Control

Field identified control was supplemented by office identified horizontal control points and was adequate.

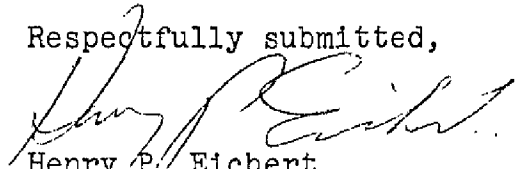
24. Supplemental Data

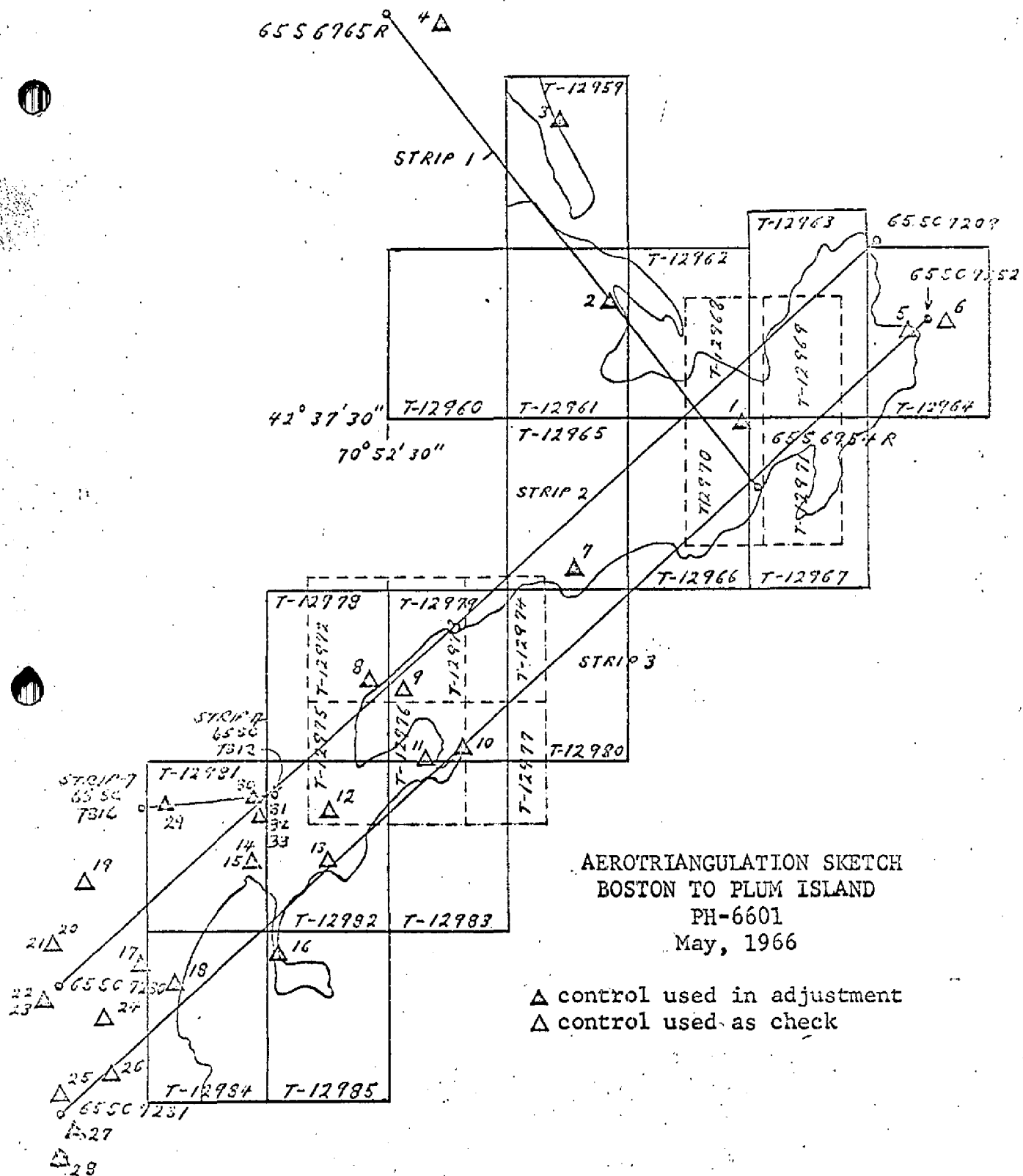
Vertical control points needed ^{as} ~~and~~ control for strip adjustments were taken from USGS quads.

25. Photography

The color photography was excellent. The infrared photography, which is not particularly suited for bridging, was adequate.

Respectfully submitted,


Henry P. Eichert



Fit to control
(feet)

STRIP #1

1 MEAD 2 (MGS), 1934

target (+0.1, +0.1)

sub. pt. (-0.9, +1.7)

2 CHOATE, 1849

target (-0.4, -0.2)

3 PLUM ISLAND COAST GUARD CUPOKA, 1943

target (+0.5, +0.3)

sub. pt. (-2.8, +4.5)

4 OLD TOWN, 1850

target (-0.2, -0.2)

RM #1 (-0.2, +0.3)

STRIP #2

5 STONEHAVEN (ROCKPORT TOWN (MGS)), 1939

target (+1.2, -2.6)

sub. pt. A (-0.7, -1.6)

sub. pt. B (+1.3, -3.0)

1 MEAD 2 (MGS), 1934

target (0.0, +3.3)

sub. pt. (+0.7, +3.6)

7 MANCHESTER CHURCH DARK SPIRE, 1848

target $(-6.0, +0.8)$

sub. pt. A $(-7.1, +3.1)$

~~sub. pt. B~~

8 SALEM, NEW ENGLAND POWER CO. SOUTH STACK, 1954

office identified $(+4.8, +1.9)$

9 FORT PICKERING LIGHTHOUSE, 1877

office identified $(+6.0, +1.0)$

14 HIGH ROCK 2 (MGS)

sub. pt. A $(+3.2, -4.4)$

sub. pt. B $(+2.0, -2.8)$

15 HIGH ROCK 3, 1943

office identified $(+1.8, -3.7)$

17 REVERE CATHOLIC CHURCH TOWER, 1934

office identified $(-4.0, -4.0)$

19 BOOTH (MGS), 1934

sub. pt. A $(+3.4, -1.4)$

24 CHELSEA QUIGLEY MEM. HOSPITAL W.T., 1958

office identified $(-1.5, +2.2)$

20 MEDFORD RADIO STATION WEEI-FM TOWER, 1958

~~sub. pt. A~~ office identified $(+2.1, -1.0)$

21 MEDFORD TV STATION WNAC TOWER, 1958

office identified $(+5.3, -1.0)$

22 MEDFORD RADIO STATION WEEI NE TOWER, 1958

office identified (+1.4, +3.0)

23 MEDFORD RADIO STATION WEEI SW TOWER, 1958

office identified (+1.7, +3.1)

STRIP #3

28 BOSTON STATE HOUSE, 1934

office identified (+2.6, +5.5)

27 BOSTON CUSTOM HOUSE TOWER, 1916

office identified (+3.7, +4.7)

25 CHARLESTOWN BUNKER HILL MON., 1846

office identified (+2.2, +0.1)

26 EAST BOSTON, BOSTON AND ALBANY R.R. TANK, 1916

office identified (+1.6, +5.5)

24 CHESLEA QUIGLEY MEM. HOSPITAL W.T., 1958

office identified (+7.3, -2.0)

17 REVERE CATHOLIC CHURCH TOWER, 1934

office identified (-4.0, -5.0)

18 REVERE BEACH STACK, 1919

office identified (-4.1, -2.2)

14 HIGH ROCK #2

sub ~~pt.~~ pt. B (+2.9, +3.9)

16 NAHANT COAST GUARD GUPOLA, 1919

office identified (+3.6, +6.4)

13 SWAMPSCOTT HIGH SCHOOL FINIAL, 1940

office identified $(+0.7, +3.4)$

12 SWAMPSCOTT LARGER STANDPIPE, 1934

office identified $(+0.7, +1.8)$

11 MARBLEHEAD, ABBOT TOWER, 1919

office identified $(-0.6, +4.4)$

10 MARBLEHEAD LIGHTHOUSE, 1914

office identified $(+2.0, +5.1)$

7 MANCHESTER CHURCH DARK SPIRE, 1848

target $(-3.5, -5.8)$

sub pt A $(-4.1, -5.2)$

1 MEAD 2 (MGS), 1934

target $(+3.8, -0.7)$

sub pt $(+6.2, -1.2)$

5 STONEHAVEN (ROCKPORT TOWN (MGS)), 1939

target $(-2.1, +0.3)$

sub pt A $(-1.3, +1.6)$

sub pt B $(-2.0, +1.2)$

6 STRAITS MOUTH LIGHTHOUSE, 1902

office identified $(-3.1, -5.2)$

STRIP #4

29 DANVERS, COOKE & KRAUSE
COCKE CO. CHIMNEY, 1919

HOME STA (-0.78 +0.79)

SS "A" (-0.01 -0.01)

SS "B" (-1.83 +1.74)

30 BEVERLY, UNITED SHOE MFG. CO. STK, 1934

(-0.01 -0.01)

31 BEVERLY, ODD FELLOWS CUPOLA, 1934

(-1.29 +1.55)

32 BEVERLY, ST. MARY'S CHURCH SPIRE, 1934

(-1.32 -1.09)

33 BEVERLY, 1ST BAPTIST CHURCH, 1914

(+1.35 +1.10)

TIE POINTS

12601 (-0.28 -6.78)

12602 (-3.79 -3.20)

13601 (-2.56 -3.47)

14601 (-3.15 -1.53)



DESCRIPTIVE REPORT CONTROL RECORD



MAP T-12982 PROJECT NO. PH-6601 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 FT. = 3048006 meters)	
				FORWARD	(BACK)
LYNN, HILLARD STACK, 1934	Vol. I Pg. 55	NA 1927	42° 28' 15.211"	469.4	(1382.0)
LYNN, WEST TANK 1934	Vol. I Pg. 55	"	70° 55' 41.157"	940.2	(430.4)
LYNN, EAST TANK 1934	Vol. I Pg. 55	"	42° 28' 16.404"	506.2	(1345.2)
SWAMPSCOTT CHURCH SPIRE 1947	Vol. I Pg. 478	"	70° 55' 38.539"	880.4	(490.2)
LINCOLN HOUSE CUPOLA 1894	Vol. I Pg. 775	"	42° 28' 17.652"	544.7	1306.7)
SWAMPSCOTT DREAD LEDGE BEA- CON 1934	Vol. I Pg. 59	"	70° 55' 35.892"	819.9	(550.7)
SWAMPSCOTT HIGH SCHOOL FINAL 1940	Vol. I Pg. 286	"	42° 28' 05.57"	171.9	(1679.5)
SWAMPSCOTT LARGER STANDPIPE 1934	Vol. I Pg. 54	"	70° 54' 58.42"	1334.6	(36.1)
		"	42° 27' 46.83"	1445.0	(406.4)
		"	70° 54' 29.08"	664.4	(706.4)
		"	42° 27' 22.483"	639.7	(1211.6)
		"	70° 53' 43.592"	996.1	(374.9)
		"	42° 28' 11.913"	367.6	(1483.8)
		"	70° 54' 39.197"	1895.5	(475.2)
		"	42° 28' 39.252	1211.2	(640.2)
		"	70° 54' 37.805	863.5	(507.0)
COMPUTED BY L.L.G	DATE 10/12/66	CHECKED BY J.P.	DATE 10/17/66		

COMPILATION REPORT

T-12982

JOB PH-6601

31. DELINEATION

The mean high waterline was compiled by the Graphic Method from the infrared ratio photos taken at mean high water. All other features were compiled with the Wild B-8 from color photos taken at mean low water. The area north of 29' 30" was transferred from the reduction of the 1:5,000 sheet #T-12945. Photography was satisfactory. There was no field inspection.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

See item # 31. The low waterline, shallow and foul limits were delineated from office interpretation of the photographs. Rock elevations determined by the Wild B-8 and verification by the hydrograph is requested.

36. OFFSHORE DETAILS

No Statement.

37. LANDMARKS AND AIDS

Appropriate copies of form 567 for landmarks and non-floating aids to navigation were forwarded to the Rockville Office under Date October 22, 1969.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions are in agreement with T-12978 scale 1:10,000, and T-12975 scale 1:5,000 to the north. T-12983 scale 1:10,000 and T-12976 scale 1:5,000 to the east. T-12985 scale 1:10,000 to the south. T-12981 scale 1:10,000 to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS Quadrangle Lynn, Massachusetts, scale 1:24,000 dated 1956.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with nautical chart 240, scale 1:25,000 8th edition, August 15, 1960, revised February 8, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO CARRIED FORWARD

None.

Submitted by:

Richard R. White

R. R. White
Cartographic Technician
September, 1967

Approved:

Albert C. Rauck, Jr.

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC

Sept. 24, 1973

GEOGRAPHIC NAMES

FINAL NAME SHEETS

Ph-6601 (Boston to Plum Island, Mass.)

T-12982

Blaney Rock
Boston and Maine (RR)
Clifton
Dread Ledge
Fishermans Beach
Forest River
Galloupes Point
Kings Beach
Lincoln House Point
Little Nahant
Littles Point
Lynn
Marblehead
Massachusetts Bay
Nahant Bay
Nahant Beach
Off Rock
Phillips Beach (locality)
Phillips Beach
Phillips Point
Red Rock
Salem Harbor
South Salem
Swampscott

Prepared by:

C. E. Harrington

C. E. Harrington
Staff Geographer

T - 12982

49. NOTES FOR THE HYDROGRAPHER AND FIELD EDITOR

Separate edit ozalids have been prepared for your respective uses. These are intended to simplify your efforts and eliminate the possibility of any duplication of edit procedures.

On each are noted pertinent remarks concerning doubtful interpretations or items of compilation requiring additional clarification and/or verification.

For the field editor, notes include all items inshore from the approximate M.L.W.L. All offshore items are noted for the Hydrographer's attention.

Among these items requiring edit by both parties, are "Landmarks and Aids". These are indicated by a numeral. The following key is an explanation of the attention they may require:

1. Object not visible on photos. Verify by edit.
2. Object visible, position verified.(by compiler)
3. Object visible, position re-determined. Verify by edit.
4. Object which may be a landmark or new aid. Verify by edit.

Forms 567 should be submitted for all "Landmarks and Aids".

FORM C&GS-1002 (9-66)		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW T- 12982			
1. PROJECTION AND GRIDS BW	2. TITLE BW	3. MANUSCRIPT NUMBERS BW	4. MANUSCRIPT SIZE BW
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY BW	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT BW	11. DETAIL POINTS BW
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE BW	13. LOW-WATER LINE BW	14. ROCKS, SHOALS, ETC. BW	15. BRIDGES BW
16. AIDS TO NAVIGATION BW	17. LANDMARKS BW	18. OTHER ALONGSHORE PHYSICAL FEATURES BW	19. OTHER ALONGSHORE CULTURAL FEATURES BW
PHYSICAL FEATURES			
20. WATER FEATURES BW	21. NATURAL GROUND COVER BW		22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS BW	26. OTHER PHYSICAL FEATURES BW
CULTURAL FEATURES			
27. ROADS BW	28. BUILDINGS BW	29. RAILROADS BW	30. OTHER CULTURAL FEATURES BW
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES BW	34. JUNCTIONS BW		35. LEGIBILITY OF THE MANUSCRIPT BW
36. DISCREPANCY OVERLAY BW	37. DESCRIPTIVE REPORT BW	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS BW
40. REVIEWER <i>Albert C. Rauck, Jr. For</i> B. Wilson 10/9/67		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> A.C. Rauck, Jr.	
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 Field Edit Applied: ACR Nov. 1969 " " Reviewed: RJP Nov. 1969		SUPERVISOR <i>Albert C. Rauck, Jr.</i> A.C. Rauck, Jr.	
43. REMARKS Field Edit Applied From: Edit Photograph: 65S7236 thru 65S7238. A small portion was transferred from a reduction of T-12975.			

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FIELD EDIT REPORT
JOB PH-6601-
Map T-12982
Massachusetts

This map was field-edited during August and September 1969. The map was compiled without field inspection prior to compilation, therefore, a complete and thorough field edit was done. All field notes were made in violet ink on the ratio prints and referenced from the field edit sheet.

52. ADEQUACY OF COMPILATION

The adequacy of the compilation was good. Distances were measured from several photographic points to the high and low-water line and all checked very good.

54. RECOMMENDATIONS

None

56. LANDMARKS AND AIDS

Form 567 is submitted for all nautical landmarks and fixed aids to navigation within the limits of this map.

57. ROCKS AND ROCK LEDGES

Rocks in question and rock changes have been shown on the photographs and referenced from the field edit ozalid. Sixty per cent of this sheets shoreline is sand beach where not many rocks are found. The remainder of the shoreline consists mostly of rock ledges.

58. MISCELLANEOUS

Form 526 copies are submitted for all nautical landmarks ~~XXXXXX~~ and aids which have triangulation positions and for the ground stations recovered in connection with photo-hydro support.

Several streets and roads have been shown by notation on the field edit ozalid.

Field Edit corrections have been shown on the following photographs: 65-S-7237 and 65-S-7238, and 65-S-7236

Submitted BY:

Ernest W. Hartford
Ernest W. Hartford
Surveying Technician

September 12, 1969

~~TO BE CHARTED~~
~~TO BE REVISED~~
~~TO BE DELETED~~

STRIKE OUT TWO

NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

Atlantic Marine Center

Oct. 22 1969

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

The positions given have been checked after listing by

Albert C. Rauck, Jr.

Allen L. Powell, Director; AMC Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Secs. 1-55, 2-39, 6-36, 7-13 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

AND METERS

6. 173

USCOMM-DC 36485-P66

~~NONFLOATING AIDS OR LANDMARKS FOR CHARTS~~TO BE CHARTED
TO BE REMOVED
TO BE DELETED

STRIKE OUT TWO

Atlantic Marine Center Oct. 22 19 69

I recommend that the following objects which have ~~(none)~~ 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

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.

Allen L. Powell
Allen L. Powell, Director, AMC Chief of Party

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION Verific.	HARBOR CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE *		LONGITUDE *		DATUM						
				° ' "	D.M. METERS	° ' "	D.P. METERS							
		EAST LYNN												
	TANK	(Lynn, East Tank, 1934) Black wood, on large bldg, ht=148(178)		42 28	17.652	70 55	35.892	NA	1927	Triang	7/23/69x			240
	TANK	(Lynn, West tank, 1934) Black wood, on large bldg, ht=148(178)		42 28	16.404	70 55	38.539	"	"	"	7/23/69x			240
	STACK	(Lynn, Hillard Stack, 1934) Yellow, brick ht=152(182)		42 28	15.211	70 55	41.157	"	"	"	7/23/69x			240
	TOWER	White, wood, church tower, ht=80 (110)		42 27	46.12	70 55	42.11	"	"	Photo	7/23/69x			240
		SWAMPSCOTT												
	STANDPIPE	(Swampscott, larger Standpipe, 1934) Green, steel ht=100(222)		42 28	39.252	70 54	37.805	"	"	Triang	7/23/69x	x		1207
	CUPOLA	(Swampscott, High School Finial 1940) Green, cream colored ball ht=89 (219)		42 28	11.913	70 54	39.197	"	"	"	7/23/69x			240
	SPIRE	St. Johns The Evangelist Church, Gilded cross on black spire, ht=92 (127)		42 28	03.14	70 54	58.78	"	"	Photo	7/23/69x			240

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-59, 6-36, 7-13 to 22 inclusive, and Fig. 79. Positions of charted landmarks and ~~nonfloating~~ aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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

REVIEW REPORT T-12982

SHORELINE

November, 1973

61. GENERAL STATEMENT

See Summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Survey #2200 dated 1895. The date of the survey and datum difference precludes any significant comparison.

This survey supersedes the prior listed survey for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. Quadrangle Lynn, MA dated 1956 at 1:24,000 scale. The two surveys are in good agreement except for ledge symbolization. These differences are shown on the comparison print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with boat sheet H-9133 dated 1970 at 1:10,000 scale. The two surveys seem to be in agreement except for the field edited rock elevations and hydro party rock elevations. These are shown on the discrepancy print in purple.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 240 dated June 26, 1971 at 1:25,000 scale. The two are in good agreement except for the extent of some ledge limits, similar to that shown on the General Survey Card-

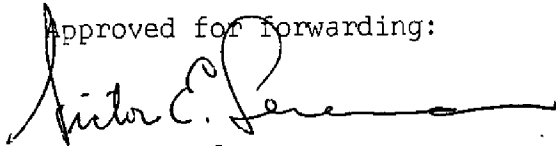
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with project instructions and meets the National Standards of Map Accuracy.

Reviewed by:

Bernard Kurs
Bernard Kurs
Cartographer

Approved for forwarding:



Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:



Chief, Photogrammetric Branch *for* Chief, Coastal Mapping Division

EAST LYNN

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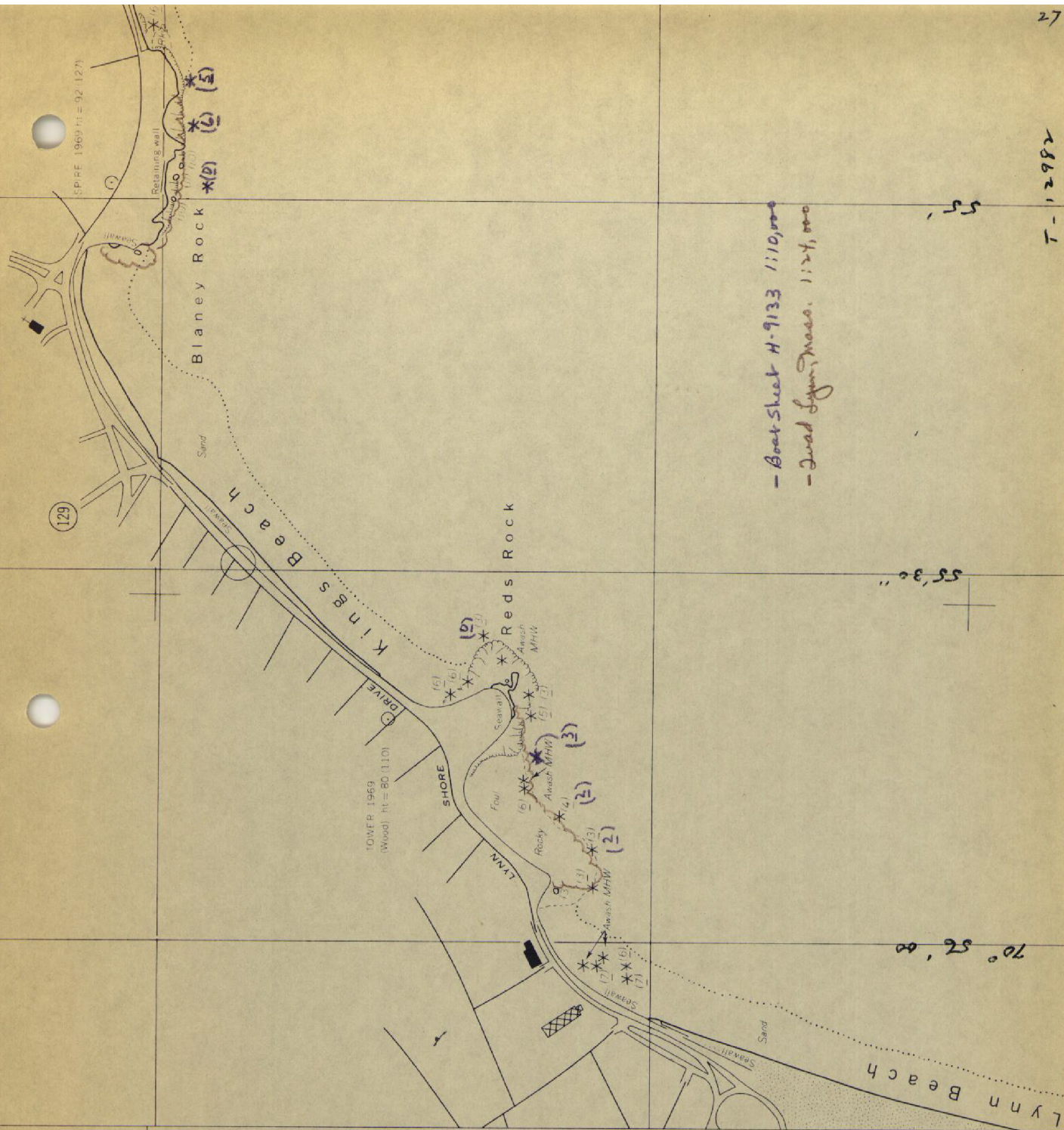
SPIRE 1969 ft = 92.127

y = 535 000 FT.

28'00"

42° 27'30"

y = 530 000 FT.



- Boat Sheet H-9133 1,110,000
- Quad Lynn, Mass. 1,124,000

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Swampscott

Phillips Beach

Littles Point

Phillips Point

Galloupes Point

Lincoln House Point

Fishermans Beach

Todesco Rocks

Dread Ledge

DREAD LEDGE DAY BEACON (SWAMPSCOTT DREAD LEDGE BEACON 1934)

65-S-6937R

65-S-6936R

NOTE:
"The photogrammetric location and delineation of features offshore from the mean high-water line on this survey may not be complete or final. The contemporary reviewed hydrographic survey of the area where available should be consulted for the final delineation."

- Dead Spring, Mass., 1124 m
- Boat Sled H-9133
1110,000

42° 27' 30"

54° 30' 45"

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