

T-12972

T-12972

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-12972
LOCALITY	
State	Massachusetts
General locality	Boston to Plum Island
Locality	Beverly Harbor
19 65 - 67	
CHIEF OF PARTY	
Allen L. Powell, Director, AMC	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T-12972

PROJECT NO. (II):

Ph-6601

FIELD OFFICE (III):

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, Virginia

OFFICER-IN-CHARGE

Allen L. Powell
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):

Kelsh, Wild B-8, and graphic

MUSCRIPT SCALE (III):

1:5,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:3,000 pantographed to 1:5,000 -Kelsh
1:7,500 pantographed to 1:5,000 -B-8

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

SEPT 1975

GEOGRAPHIC DATUM (III):

NA 1927

VERTICAL DATUM (III): MHW

~~MEAN LOW WATER~~ 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):

BEVERLY FIRST BAPTIST CHURCH 1914 ✓

LAT.:

LONG.:

42° 32' 53" 602(1653.9m) ✓

70° 52' 44" 259(1009.8m) ✓

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

564,783.88 ft. ✓

x = 767,354.20 ft. ✓

Massachusetts ✓

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

FIELD INSPECTION BY (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Date of Photography, August 1965 Air Photo Compilation, graphic		
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree		05-31-66
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. Glaser		06-03-66
CONTROL PLOTTED BY (III):		DATE
L. Neterer		09-23-66
CONTROL CHECKED BY (III):		DATE
C. Blood		09-23-66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
H. P. Eichert		11-01-66
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY A.L. Shands Rev. by: L. O. Neterer	DATE 1-12-67 1-12-67
	CONTOURS Inapplicable	DATE
Wild B-8 - Kelsh Plotter		
MANUSCRIPT DELINEATED BY (III):		DATE
A. L. Shands		1-20-67
SCRIBING BY (III):		DATE
B. Wilson		9-9-69
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
Compilation: C. H. Bishop		2-10-67
Field Edit: R. J. Pate		2-2-68
Scribing & Stick up: R.E. Smith		10-10-69
REMARKS:		
Field Edit by: E. W. Hartford		
Date September & October 1967		

FORM C&GS-181c
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY



DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "S"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65S(C)-7363 thru 7365	8/31/65	0912 EST	1:15,000	0.1 ft. above MLW*
65S-7152R thru 7154R	8/25/65	0958 EST	1:15,000	8.6 ft. above MLW*
65S(C)-7314 and 7315	8/31/65	0841 EST	1:15,000	0.4 ft. below MLW*
65S-7142R thru 7144R	8/25/65	0951 EST	1:15,000	8.7 ft. above MLW*
65S(C)-7339	8/31/65	0858 EST	1:15,000	0.2 ft. below MLW*

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Boston, Mass. (Predicted)		9.5	11.0
SUBORDINATE STATION: Beverly (Predicted)		9.0	10.4
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Bernard Kurs

DATE: December, 1973

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 5	RECOVERED: 5	IDENTIFIED: 5
NUMBER OF BM(S) SEARCHED FOR (II):	RECOVERED:	IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): None

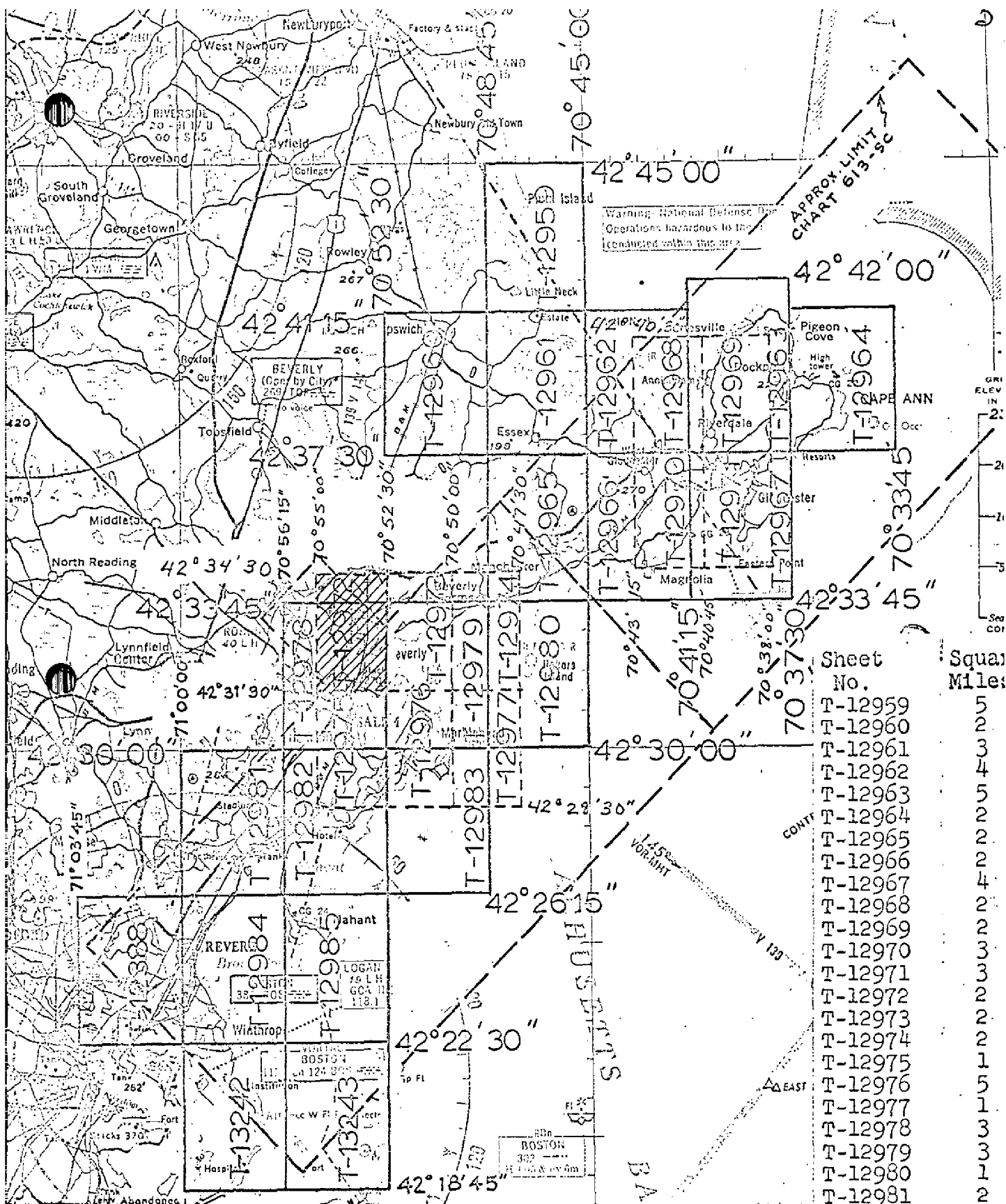
REMARKS:

*The stage of tide at the time of photography was determined by staff readings at Gloucester Harbor (Ten Pond Island) at that time. See Instructions - OFFICE, dated 28 April 1966.



T-12972

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending Field edit	January 1965	Superseded
Field Edit Applied	November 1967	Superseded
Streets and inshore details reviewed and corrected	September 1968	Superseded
Final Review	December, 1973	



JOB PH-6601
BOSTON TO PLUM ISLAND
SHORELINE MAPPING AT 1:5,000 & 1:10,000 SCALE
CHART 613-SC
CHART TOPOGRAPHY AT 1:40,000 SCALE

Sheet No.	Square Miles:
T-12959	5
T-12960	2
T-12961	3
T-12962	4
T-12963	5
T-12964	2
T-12965	2
T-12966	2
T-12967	4
T-12968	2
T-12969	2
T-12970	3
T-12971	3
T-12972	2
T-12973	2
T-12974	2
T-12975	1
T-12976	5
T-12977	1
T-12978	3
T-12979	3
T-12980	1
T-12981	2
T-12982	3
T-12983	2
T-12984	3
T-12985	2
T-12388	3
T-13242	3
T-13243	2
TOTAL	79

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 hydrographer's 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-12972
Job PH-6601

There was no field inspection prior to compilation.

8

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.

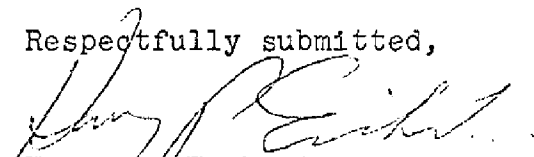
24. Supplemental Data

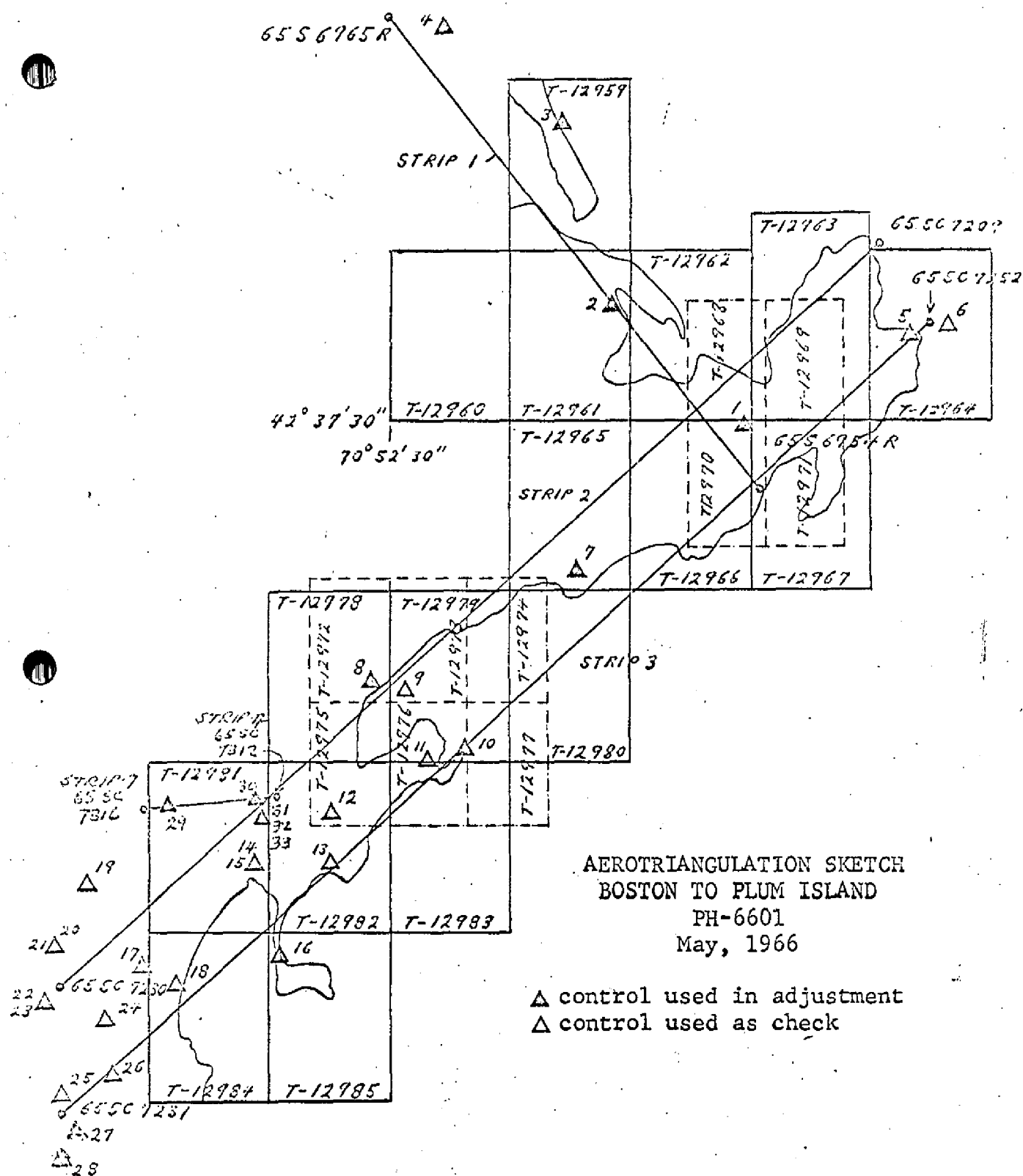
Vertical control points needed ^{as} ~~and~~ control for strip adjustments were taken from USGS quads.

25. Photography

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

Respectfully submitted,


Henry P. Eichert



Flt To control
(feet)

STRIP #1

1. MEAD 2 (MGS), 1934

target (+0.1, +0.1)

sub. pt. (-0.9, +1.7)

2. CHDATE, 1849

target (-0.4, -0.2)

3. PLUM ISLAND COAST GUARD CUPOLA, 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 WEET NE TOWER, 1958

office identified (+1.4, +3.0)

23 MEDFORD RADIO STATION WEET 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 CUPOLA, 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, ABERT TOWER, 1719

office identified $(-0.6, +4.4)$

10 MARBLEHEAD LIGHTHOUSE, 1914

office identified $(+2.0, +5.1)$

7 MANCHESTER CHURCH PARK 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} ~~COOKE~~ CO. CHIMNEY, 1919

HOME STA (-0.18 +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. MARYS 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- 12972 PROJECT NO. PH-6601

SCALE OF MAP 1:5,000

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 meter) FORWARD (BACK)
RAMSHORN	Volume 1		42 32 09.091	280.5 (1570.9) ✓
BEACON 1914	P-509	NA 1927	70 52 32.337	738.0 (631.2) ✓
LOBSTER ROCKS	Volume 1		42 32 17.845	550.6 (1300.8) ✓
BEACON 1914	P-509	"	70 52 55.186	1259.3 (109.9) ✓
SALEM, N. ENGLAND POWER CO. SOUTH STACK 1954	Volume 1		42 31 33.687	1039.4 (812.0) ✓
	P-891	"	70 52 37.487	855.6 (513.9) ✓
SALEM, N. ENGLAND POWER CO. NORTH STACK 1954	Volume 1		42 31 34.340	1059.6 (791.8) ✓
	P-891	"	70 52 37.103	846.9 (522.6) ✓
BEVERLY, UNITED SHOE MFG. CO. STACK 1934	Volume 1		42 33 33.912	1046.4 (805.0) ✓
	P-51	"	70 53 16.148	368.4 (1000.3) ✓
BEVERLY, ST. MARY'S CHURCH SPIRE 1914	Volume 1		42 32 58.850	1815.9 (35.5) ✓
	P-53	"	70 52 41.453	945.8 (423.1) ✓
BEVERLY, ODD FELLOWS CUPOLA 1934	Volume 1		42 32 51.810	1598.6 (252.8) ✓
	P-54	"	70 52 47.089	1074.4 (294.5) ✓
BEVERLY, FIRST BAPTIST CHURCH 1914	Volume 1	✓	42 32 53.602	1653.9 (197.5) ✓
	P-33	"	70 52 44.259	1009.8 (359.1) ✓
BEVERLY, POWDER HOUSE, 1848	Volume 1		42 33 12.033	371.3 (1480.1)
	P-824	"	70 52 33.170	756.7 (612.1)
BEVERLY, STUART'S FACTORY, YELLOW CHIMNEY, 1919	Volume 1		42 32 24.94	769.5 (1081.9)
	P-875	"	70 53 22.43	511.8 (857.3)
SALEM, GAS CO., CUPOLA, 1919	Volume 1		42 32 02.506	77.3 (1774.1)
	P-871	"	70 53 07.599	173.4 (1195.9)
SALEM, GAS CO., S. W. CHIMNEY, 1919	Volume 1		42 32 02.118	65.4 (1786.0)
	P-871	"	70 53 02.668	60.9 (1308.4)

COMPUTED BY

LIG BW

DATE

10/13/66 10/13/69

CHECKED BY

CHB JSP BLB

DATE

2/8/69, 10/17/66 10/13/69

COMPILATION REPORT
T-12972
Job PH-6601

31. DELINEATION:

East of longitude $70^{\circ} 54' 30''$ the mean high water line was delineated graphically from infrared ratios taken at mean high water. All other detail east of longitude $70^{\circ} 54' 30''$ was compiled with the Wild B-8 from color photography taken at mean low water. West of longitude $70^{\circ} 54' 30''$ all features were compiled with the Kelsh plotter from infrared photographs taken at mean high water except the foreshore area and shallow areas, which were compiled graphically from color ratio photographs taken at mean low water.

There was no field inspection.

32. CONTROL:

See Photogrammetric Plot Report, dated November 1, 1966.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. No drainage was delineated on this map.

35. SHORELINE AND ALONGSHORE DETAILS:

See Item 31. All shoreline and foreshore areas including all piers, ledge and shallow lines were delineated from office interpretation. Rock elevations were determined from the Wild B-8 and the Hydrographer has been asked to verify them.

36. OFFSHORE DETAILS:

No statement.

37. LANDMARKS AND AIDS:

Appropriate copies of Form 567's for landmarks and aids have been forwarded to the Washington Office under date November 22, 1967.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junctions are in agreement with T-12973 (1:5,000) and T-12979 (1:10,000) to the east, T-12978 (1:10,000) and T-12975 (1:5,000) to the south and T-12978 (1:10,000) to the west. There is no contemporary survey to the north.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USC&GS Quadrangle Salem, Massachusetts scale 1:24,000 dated 1956.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with USC&GS Chart No. 241, scale 1:10,000, 3rd edition, dated September 3, 1963, and Chart 240, scale 1:25,000, 8th edition, dated February 8, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted:



A. L. Shands
Cartographic Aid

Approved and forwarded:



Allen L. Powell
Director, Atlantic Marine Center

Sept. 24, 1973

GEOGRAPHIC NAMES

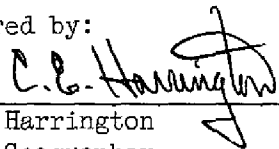
FINAL NAME SHEETS

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

T-12972

Bass River
Beverly
Beverly Harbor
Boston and Maine (RR)
Collins Cove
Danvers River
Fort Lee
Fosters Point
Green Hill
Lobster Rocks
North River
North Salem
Peters Point
Porter River
Prospect Hill
Rams Horn Rock
Salem
Salem Neck
Salters Point
Tuck Point

Prepared by:


C. E. Harrington
Staff Geographer

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".

PHOTOGRAMMETRIC OFFICE REVIEW
T- 12972

1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X		7. PHOTO HYDRO STATIONS X
8. BENCH MARKS X	9. PLOTTING OF SEXTANT FIXES X	10. PHOTOGRAMMETRIC PLOT REPORT Bridge - W.O.	11. DETAIL POINTS X
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE CHB	13. LOW-WATER LINE CHB	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES CHB
16. AIDS TO NAVIGATION CHB	17. LANDMARKS CHB	18. OTHER ALONGSHORE PHYSICAL FEATURES CHB	19. OTHER ALONGSHORE CULTURAL FEATURES CHB
PHYSICAL FEATURES			
20. WATER FEATURES X	21. NATURAL GROUND COVER X		22. PLANETABLE CONTOURS X
23. STEREOSCOPIC INSTRUMENT CONTOURS X	24. CONTOURS IN GENERAL X	25. SPOT ELEVATIONS X	26. OTHER PHYSICAL FEATURES X
CULTURAL FEATURES			
27. ROADS CHB	28. BUILDINGS CHB	29. RAILROADS CHB	30. OTHER CULTURAL FEATURES CHB
BOUNDARIES			
31. BOUNDARY LINES X		32. PUBLIC LAND LINES X	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES CHB	34. JUNCTIONS CHB		35. LEGIBILITY OF THE MANUSCRIPT CHB
36. DISCREPANCY OVERLAY X	37. DESCRIPTIVE REPORT CHB	38. FIELD INSPECTION PHOTOGRAPHS X	39. FORMS CHB
40. REVIEWER <i>Charles H. Bishop</i> C. H. Bishop		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> Albert 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 R. R. White Rev. by: R. J. Pate <i>R. J. Pate</i>		11/10/67 2/2/68 SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
43. REMARKS Field Edit applied from: Field Edit Ozalid; Field photographs Nos. 65-S-7314, 7364, & 7365			

FIELD EDIT REPORT

PH - 6601

T-I2965 T-I2972 T-I2980

Boston to Plum Island

GENERAL NOTES

This report is submitted for three T-sheets, field edited
~~xxxxxxxxxxxxxx, xkxkxkxkxkxk~~ September and October 1967.

Discrepancies on sheet T-I2980 except one, and the western
edge of sheet T-I2965 were field edited and noted on manuscript
T-I2974 1:5000 scale completed June this year.

51 METHODS

Field edit was accomplished by the following methods, by
skiff and truck travel and by walking sections of the shoreline.

All rock and ledge areas were inspected at or near low
water, rock heights were taken by hand level from mean high water
line or mean low water.

All discrepancies on the black and white prints have been
verified or referenced to photographs. Deletions are noted on the
discrepancy print and on the photos. All notations, corrections, or
additions other than deletions are noted in violet on the photographs.

Notations on the photographs by sheet numbers are as
follows: T-I2972 T-I2965 T-I2980

65-s-7314 65-S-7217 65-S-~~XXXX~~ 7217

7364 7218 7243

7365 7244

52 ADEQUACY OF COMPILATION

The compilation of ledges, rock hts, and locations as a
whole appeared to be good. A few objects such as sunken barrels and

21
stumps photographed like rocks. Compilation of Piers, roads,
and building was found to be very good.

54 RECOMMENDATIONS

NONE

56 ROCKS

All rocks in question are noted on the discrepancy print
and referenced to the photo. All additional rocks recommended for
charting are inked on the following photographs:

T-I2972	T-I2965	T-I2980
65-S-7314	65-S-7217	65-S-7217
7364		7243
7365		

57 NAUTICAL LANDMARKS AND FIXED AIDS

All nautical landmarks and fixed aids were inspected and
submitted on form 567.

All bluffs were investigated offshore and bluffs recommended
for charting are noted on the following photos: 65-S-7243 and 7244

58 LANDMARK BUILDINGS

All additional landmark buildings recommended for charting are
circled on the following photos 65-S-7217, 7243, 7244 and 7365.

Three buildings were deleted on manuscript T-I2972.

All Public buildings are circled on the following photos:
65-S-7244, 7364 and 7365.

59 ROADS

All roads deletions and classifications for T-I2972 are
noted on the manuscript.

Road deletions for T-I2965 are noted on the manuscript . All
additional roads are inked on Photo 65* S- 7244.

Submitted by

TO BE CHARTED
TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

NONLOCALIZING AIDS/OR LANDMARKS FOR CHARTS

Atlantic Marine Center

November 14, 1967

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

The positions given have been checked after listing by

R. R. White

11
J. Bull. RADM. USESSA

Director, ANG

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 2-39, 6-36, 7-18 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.

*** TABLE SECONDS AND METERS**

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

Atlantic Marine Center November 14, 1967

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted/struck)~~ the charts indicated.

The positions given have been checked after listing by R. R. White

R. R. White

J. J. Bull, RADN, USESSA

Director, AMC

Chief of Party

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION							METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE #		LONGITUDE #		DATUM								
				°	'	°	'									
				D.M. METERS	D.P. METERS											
MASSACHUSETTS		SALEM HARBOR APPROACHES														
		MAIN CHANNEL														
		(Beverly First Baptist Church 1914) Hospital Point Range														
	* LIGHT	Rear Light.		42	32	53.602	70 52	N.A. 1927	Triang. T-12972	Verifi. 10/2/67	x	x		240SC, 241SC 1207		
		BEVERLY HARBOR														
		Lobster Rocks Daybeacon														
	DAYBEACON	(Lobster Rocks Beacon 1914)		42	32	17.845	70 52	N.A. 1927	Triang. T-12972	Verifi. 10/2/67	x	x		240SC, 241SC 1207		
		RAMS HORN CHANNEL														
		Rams Horn Rock Daybeacon														
	DAYBEACON	(Rams Horn Beacon 1914)		42	32	09.091	70 52	N.A. 1927	Triang. T-12972	Verifi. 10/2/67	x	x		240SC, 241SC 1207		
	*	See Form 567 LANDMARKS TO BE CHARTED														

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 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.

* TIME IN SECONDS AND METERS

REVIEW REPORT T-12972

SHORELINE

December, 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 Number 3765, 1919 at 1:10,000 scale. There is a difference in datum so that only a visual comparison was made. In general the two surveys agree except that the time lapse shows considerable change in shoreline both man-made and natural.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with USGS Quadrangle Salem, MASS., 1956 at 1:24,000 scale. The two surveys are in agreement except for man-made and natural changes to the shoreline. The man-made changes are mostly in the Northeast Shore of the Danvers River and Beverly Harbor.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with Boat Sheet H-9009, 1968 at 1:5,000 scale. Both surveys are in very good agreement.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 241, July 29, 1972 at 1:10,000 scale, and visual comparison was made with Chart 241, May 19, 1973 at 1:25,000 scale. There are natural and cultural changes which are shown on the discrepancy overlay in red. The significant difference is Lobster Rocks which is shown on the chart as ledge and the field editor describes as a shell bottom.

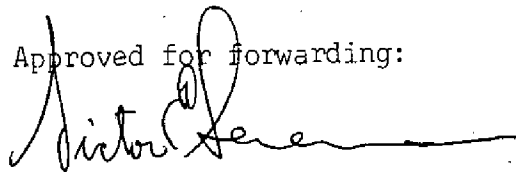
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

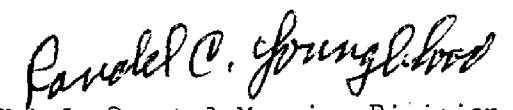
Bernard Kurs
Bernard Kurs
Cartographer

Approved for forwarding:



Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

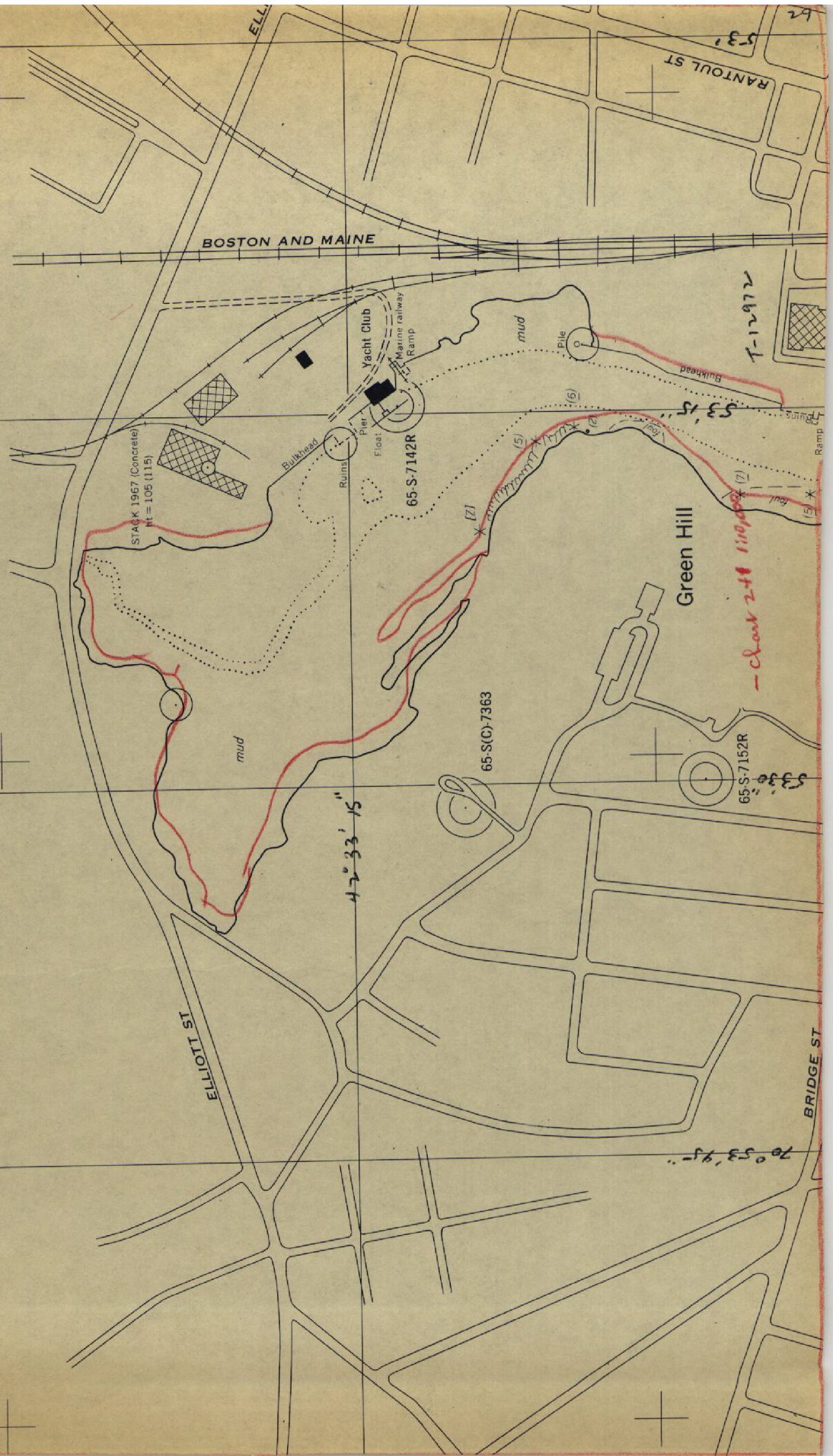
Chief, Photogrammetric Branch *for*  Chief, Coastal Mapping Division

BEVERLY

3330

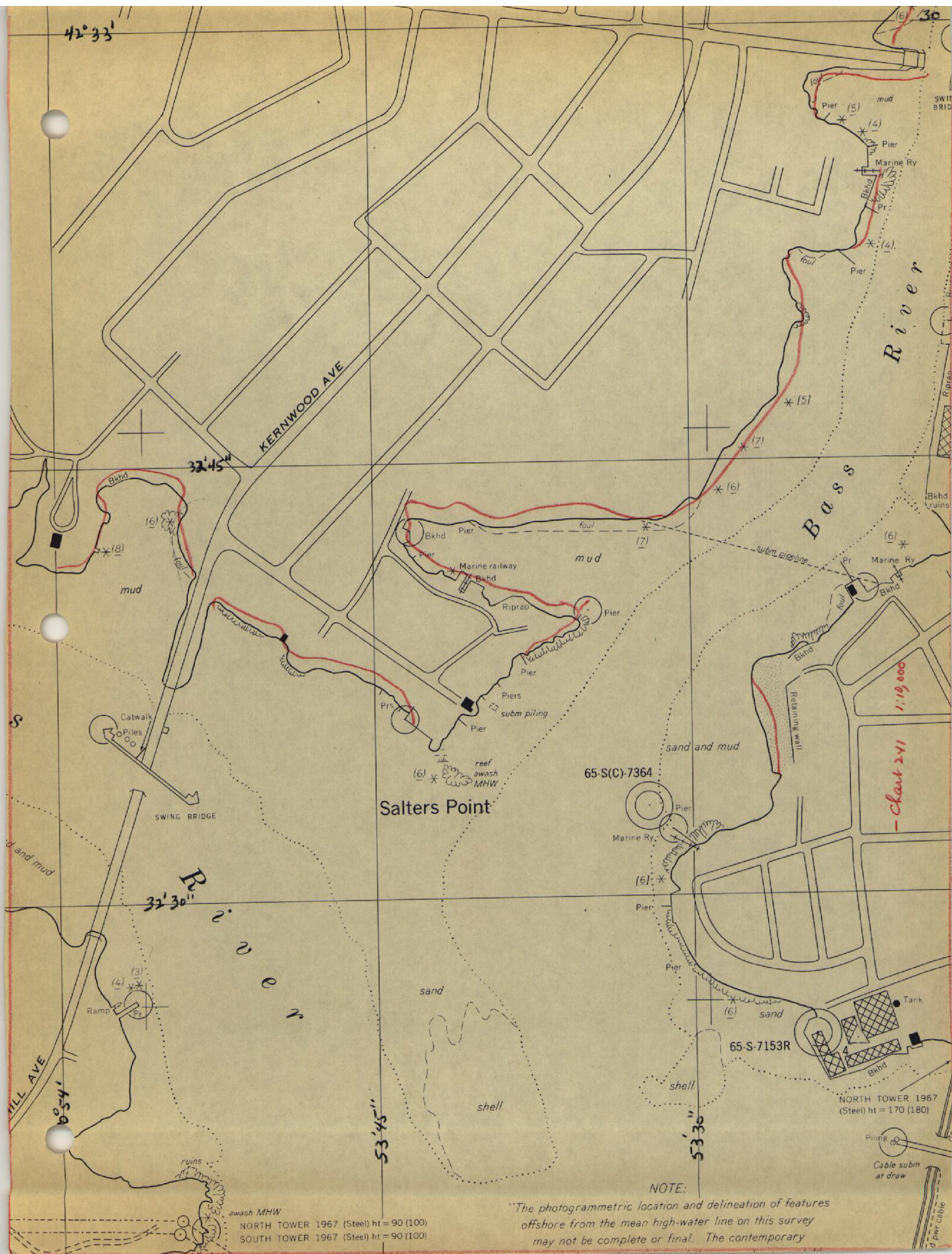
42° 33' 15"

70° 53' 45"

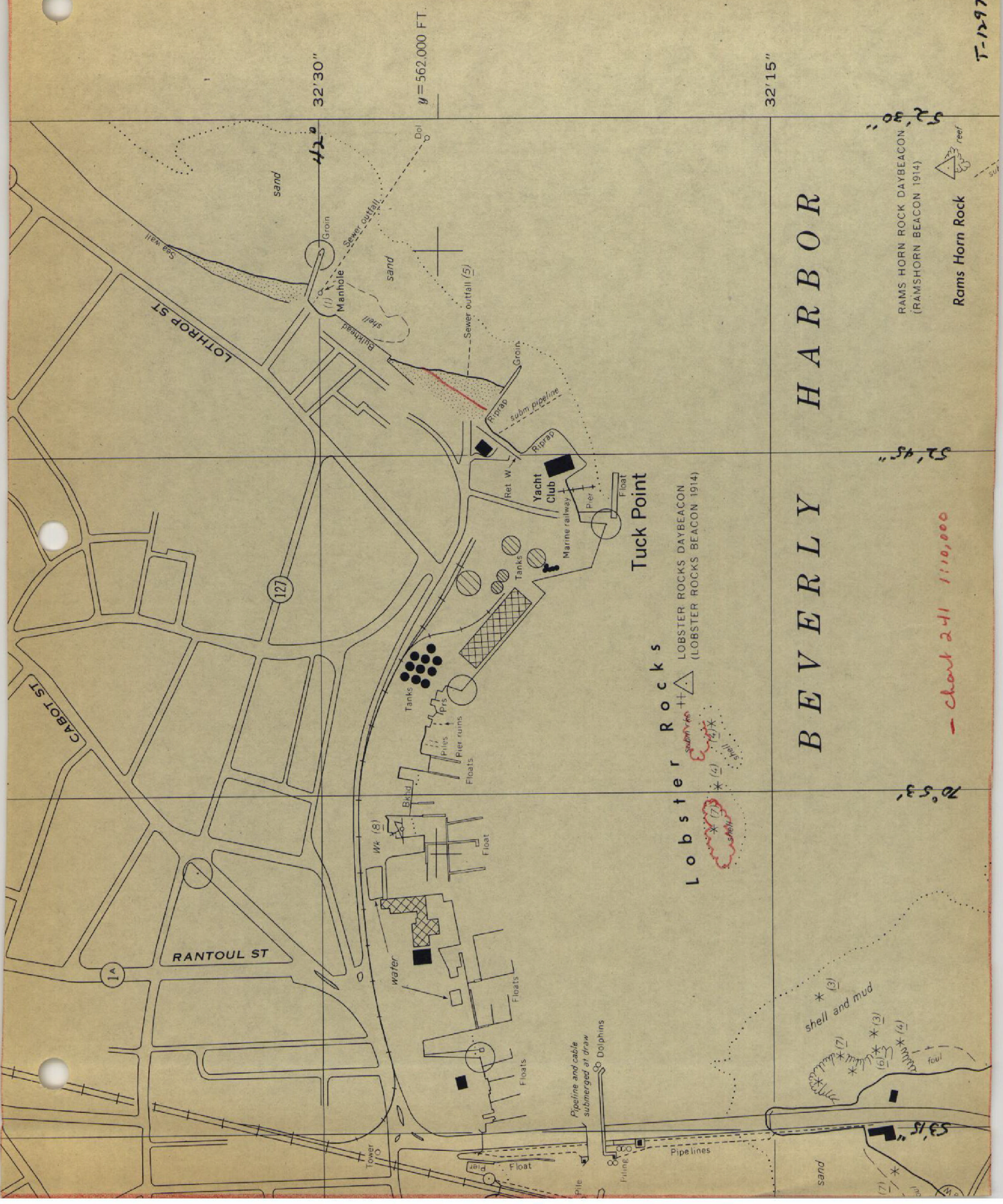


1-12912

- check 2-4 1100-1105



T-12972



BEVERLY HARBOR

