**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Field No.</th>
<th>Field Edited</th>
<th>Office No.</th>
<th>T-12984</th>
</tr>
</thead>
</table>

**LOCALITY**

- **State**: Massachusetts
- **General locality**: Boston to Plum Island
- **Locality**: Broad Sound

**1966-70**

**CHIEF OF PARTY**

- Alfred C. Holmes, Director AMC

**LIBRARY & ARCHIVES**

**DATE**
DESCRIPTIVE REPORT - DATA RECORD
T-12984

PROJECT NO. (III):
Job PH-6601

FIELD OFFICE (III):
*None

PHOTOGRAMMETRIC OFFICE (III):
Atlantic Marine Center, Norfolk, VA
*Alfred C. Holmes, Director, AMC

INSTRUCTIONS DATED (III) (IV):
Field - Aug. 4, 1965
Field - Aug. 19, 1965 Provisional Instructions, Aerial Photography
Office - Oct. 8, 1965 Instructions, Aerotriangulation
Office - Jan. 27, 1966
Office - Feb. 2, 1966 Instructions, Aerotriangulation
Office - Apr. 28, 1966
Field - May 20, 1966 Supplement I
Office - July 11, 1966 Supplement I

METHOD OF COMPILATION (III):
Wild B-8

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):

DATE REGISTERED (IV):
SEPT. 1975

APPLIED TO CHART NO.

GEODETIC DATUM (III):
NA 1927

VERTICAL DATUM (III):

REFERENCE STATION (III):
REVERE POLICE TOWER, 1934

LAT.: 42°24'150,399 (1555.1M)
LONG.: 70°59'24,077 (550.5M)

PLANE COORDINATES (IV):

Y =
X =

STATE
*Massachusetts

ZONE
*Mainland

MAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (III) 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**

**T-12984**

**FIELD INSPECTION BY (III):**

None

**DATE:**

**MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):**

Air Photo Compilation  
Date of Photography: August 24, 1965

**DATE:**

**PROJECTION AND GRIDS RULED BY (IV):**

A. E. Roundtree  
**DATE:** 5/31/66

**PROJECTION AND GRIDS CHECKED BY (IV):**

R. Glaser  
**DATE:** 6/1/66

**CONTROL PLOTTED BY (III):**

L. O. Neterer, Jr.  
**DATE:** 9/22/66

**CONTROL CHECKED BY (III):**

C. Blood  
**DATE:** 9/22/66

**RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):**

Henry P. Eichert  
**DATE:** 11/1/66

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

Wild B-8  
**DATE:** 9/16/67

**PLANIMETRY:**

L. O. Neterer, Jr.

**CONTOURS:**

Inapplicable

**MANUSCRIPT DELINEATED BY (III):**

L. L. Graves  
**DATE:** 12/19/67

**SCHIBING BY (III):**

**DATE:**

**PHOTOGAMMETRIC OFFICE REVIEW BY (III):**

* R. J. Pate  
**DATE:** *6/13/72

**REMARKS:**

*Field Edit By: E. W. Hartford

July and August
### RC 8 "S" & "L"

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td>65 S 7234</td>
<td>8/31/65</td>
<td>07:40</td>
<td>1:30,000</td>
<td>0.2 Ft. Below MLW</td>
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<tr>
<td>65 S 7235</td>
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<td>07:41</td>
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<td></td>
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<tr>
<td>65 S 7236</td>
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<td>07:41</td>
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</tr>
<tr>
<td>66 L 2918</td>
<td>4/26/66</td>
<td>11:07</td>
<td>1:30,000</td>
<td>1.7 Ft. above MLW</td>
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<tr>
<td>56 L 2919</td>
<td></td>
<td>11:08</td>
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<tr>
<td>65 S 6932 R</td>
<td>8/24/65</td>
<td>08:44</td>
<td>1:30,000</td>
<td>8.8 Ft. above MLW</td>
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<tr>
<td>65 S 6933 R</td>
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<td>65 S 6934 R</td>
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### TIDE

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<tr>
<th>REFERENCE STATION:</th>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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</thead>
<tbody>
<tr>
<td>Boston</td>
<td>9.5</td>
<td>11.0</td>
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<table>
<thead>
<tr>
<th>SUBORDINATE STATION:</th>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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<tbody>
<tr>
<td>Lynn Harbor</td>
<td>9.2</td>
<td>10.7</td>
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<tr>
<td>Deer Island</td>
<td>9.3</td>
<td>10.8</td>
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WASHINGTON OFFICE REVIEW BY (IV): Bernard Kurs, AMC

DATE: 10/73

PROOF EDIT BY (IV):

DATE: 

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III): 18

RECOVERED: 11

IDENTIFIED: 1

NUMBER OF BM(S) SEARCHED FOR (II): None

RECOVERED: None

IDENTIFIED: None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

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

REMARKS:

65 S 7234 thru 65 S 7236 and 65 S 6932 through 65 S 6934 stage of tide photographs are based on the tide staff data recorded on the respective dates listed above. Photographs 66 L 2918 and 66 L 2919 were computed from predicted tides.
<table>
<thead>
<tr>
<th>Compilation Record</th>
<th>T-12984</th>
<th>Completion Date</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Compilation Complete Pending Field Edit</td>
<td>Nov. 1967</td>
<td>*Superseded</td>
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<tr>
<td>Field Edit Applied, *Compilation Complete</td>
<td>June 1972</td>
<td>Superseded</td>
<td></td>
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<tr>
<td>Final Review</td>
<td>Oct. 1973</td>
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</table>
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-12984

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 for 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 E. Eichert
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 CUTOFF, 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, 1849
   target (-6.0, +0.8)
   sub. pt. A (-7.1, +3.1)

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., 1955
    office identified (-1.5, +2.2)

20. MEDFORD RADIO STATION WEEI-FM TOWER, 1955
    office identified (+2.1, -1.0)

21. MEDFORD TV STATION WNAC TOWER, 1958
    office identified (+5.3, -1.0)
22. Medford Radio Station, WEEJ, NE Tower, 1755
   Office identified (+14, +3.0)

23. Medford Radio Station, WEEJ, SW Tower, 1755
   Office identified (+12, +3.1)

Strip #3

28. Boston State House, 1934
   Office identified (+2.6, +5.5)

27. Boston Custom House Tower, 1916
   Office identified (+3.2, +4.7)

25. Charlestown Bunker Hill Monument, 1846
   Office identified (+2.2, +0.1)

   Office identified (+1.6, +5.5)

24. Chelsea Quigley Memorial Hospital, W.T., 1953
   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 (-41, -22)

14. High Rock #2
   Sub. Top B (+2.9, +3.9)

19. Nahant Coast Guard Cupola, 1919
   Office identified (+3.6, +6.4)
10. **Marblehead Lighthouse, 1914**
   - Office identified: (+2.0, +5.1)

9. **Manchester Church Park Spire, 1848**
   - Target: (-3.5, -5.8)
   - Sub pt A: (+1.3, -5.2)

8. **High School Finial, 1949**
   - Office identified: (+0.7, +3.4)

7. **Swampscott Larger Standpipe, 1934**
   - Office identified: (+0.7, +1.3)

6. **Straitsmouth Lighthouse, 1922**
   - Office identified: (-3.1, -5.2)

5. **Stonehaven (Rockport Town, M.G.S.), 1939**
   - Target: (-2.1, +0.3)
   - Sub pt A: (-1.3, +1.6)
   - Sub pt B: (-2.0, +1.2)

4. **Head 2 (M.G.S.), 1934**
   - Target: (+3.8, -0.2)
   - Sub pt: (+6.2, -1.2)

1. **Manchester Church Park Spire, 1848**
   - Target: (+3.8, -0.2)
   - Sub pt: (+6.2, -1.2)
<table>
<thead>
<tr>
<th>No.</th>
<th>Location</th>
<th>Description</th>
<th>Coordinates</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>DANYERS COKE &amp; COKE CO. CHIMNEY, 1919</td>
<td>HOME STA (-0.18 +0.79)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ss &quot;A&quot; (-0.01 -0.01)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ss &quot;B&quot; (-1.33 +1.74)</td>
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<tr>
<td>30</td>
<td>BEVERLY UNITED SHOE MFG. CO. STK., 1934</td>
<td>(-0.01 -0.01)</td>
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<td>31</td>
<td>BEVERLY CO. FELLOWS CORONA, 1934</td>
<td>(-1.29 +1.55)</td>
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<tr>
<td>32</td>
<td>BEVERLY ST. MARY'S CHURCH SPIRE, 1934</td>
<td>(-1.32 -1.09)</td>
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<tr>
<td>33</td>
<td>BEVERLY 1ST BAPTIST CHURCH, 1914</td>
<td>(41.35 +1.10)</td>
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**TIE POINTS**

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<th>No.</th>
<th>Coordinates</th>
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<tbody>
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<td>12601</td>
<td>(-0.28 -6.78)</td>
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<tr>
<td>12602</td>
<td>(-3.79 -2.20)</td>
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<tr>
<td>12603</td>
<td>(-2.51 -3.87)</td>
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<tr>
<td>14601</td>
<td>(-2.35 -1.53)</td>
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## Descriptive Report Controlling Record

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<tr>
<th>Station Description</th>
<th>Source of Information (Index)</th>
<th>Datum</th>
<th>Latitude or Y Coordinate</th>
<th>Longitude or X Coordinate</th>
<th>Distance in Meters (1 ft = 0.0304806 m)</th>
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</thead>
<tbody>
<tr>
<td>WINTHROP, CATHOLIC CHURCH, TOWER 1934</td>
<td>Vol. I Pg. 63</td>
<td>NA 1927</td>
<td>42° 22' 46.360&quot;</td>
<td>70° 59' 00.294&quot;</td>
<td>1430.4 (420.9)</td>
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<tr>
<td>WINTHROP, METHODIST CHURCH, SPIRE 1934</td>
<td>&quot; &quot;</td>
<td>&quot; &quot;</td>
<td>42° 22' 35.829&quot;</td>
<td>70° 59' 03.749&quot;</td>
<td>1105.5 (745.8)</td>
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<tr>
<td>WINTHROP LIGHT 1934</td>
<td>Vol. I Pg. 94</td>
<td>&quot; &quot;</td>
<td>42° 22' 41.799&quot;</td>
<td>70° 58' 48.624&quot;</td>
<td>1289.7 (561.6)</td>
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<td>REVERE BEACH, NEW AMUSEMENT HOUSE CUPOLA 1919</td>
<td>Vol. I Pg. 874</td>
<td>&quot; &quot;</td>
<td>42° 24' 39.003&quot;</td>
<td>70° 59' 28.438&quot;</td>
<td>1203.4 (647.9)</td>
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<td>REVERE POLICE TOWER, 1934</td>
<td>Vol. I Pg. 96</td>
<td>&quot; &quot;</td>
<td>42° 24' 50.399&quot;</td>
<td>70° 59' 24.077&quot;</td>
<td>1555.1 (296.2)</td>
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<td>REVERE BEACH STACK, 1919</td>
<td>Vol. I Pg. 97</td>
<td>&quot; &quot;</td>
<td>42° 24' 52.213&quot;</td>
<td>70° 59' 27.853&quot;</td>
<td>1611.1 (240.2)</td>
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**Computed by:** L. L. Graves  
**Date:** 10/11/66  
**Checked by:** RJF  
**Date:** 10/12/66
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<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>LONGITUDE OR X COORDINATE</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 ft. = 30.48006 meter)</th>
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<tr>
<td>LYN RADIO STATION WORL TOWER 1958</td>
<td>Vol. I Pg. 28</td>
<td>&quot;</td>
<td>42° 26' 07.971&quot;</td>
<td>70° 59' 27.415</td>
<td>242.9 (1608.4)</td>
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<td>WINTHROP, BOSTON RADIO, CENTER TOWER, 1943</td>
<td>Vol. I Pg. 398</td>
<td>&quot;</td>
<td>42° 23' 23.329&quot;</td>
<td>70° 59' 07.512</td>
<td>719.8 (1131.5)</td>
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<tr>
<td>WHITE ROCKS LIGHT, 1954</td>
<td>Vol. I Pg. 891</td>
<td>&quot;</td>
<td>42° 25' 32.931&quot;</td>
<td>70° 57' 16.517</td>
<td>1016.1 (835.2)</td>
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<tr>
<td>BLACK ROCKS LIGHT, 1954</td>
<td>Vol. I Pg. 891</td>
<td>&quot;</td>
<td>42° 25' 59.139&quot;</td>
<td>70° 56' 54.568</td>
<td>377.6 (994.0)</td>
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<tr>
<td>WINTHROP, BAPTIST CHURCH, SPIRE 1934</td>
<td>Vol. I Pg. 63</td>
<td>&quot;</td>
<td>42° 22' 41.340&quot;</td>
<td>70° 59' 10.869</td>
<td>1824.8 (26.5)</td>
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<tr>
<td>WINTHROP, TOWN HALL CUPOLA, 1934</td>
<td>Vol. I Pg. 63</td>
<td>&quot;</td>
<td>42° 22' 38.863&quot;</td>
<td>70° 59' 06.186</td>
<td>1247.3 (124.2)</td>
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<td>REVERE BEACMHONT, FLAGSTAFF 1934</td>
<td>Vol. I Pg. 60</td>
<td>&quot;</td>
<td>42° 23' 44.758&quot;</td>
<td>70° 59' 14.673</td>
<td>1195.1 (652.2)</td>
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<tr>
<td>COMPUTED BY L.L. Graves</td>
<td>DATE 10/12/66</td>
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<td>CHECKED BY R. J. P.</td>
<td>DATE 10/12/66</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
31. **DELINEATION:**

   B-8 was used to delineate the planimetry, and inshore detail. The Mean High Water Line was compiled by the graphic method, from infrared ratio photographs taken at MHW.

   Photography was adequate.

32. **CONTROL:**

   See Photogrammetric Plot Report.

33. **SUPPLEMENTAL DATA:**

   None

34. **CONTOURS AND DRAINAGE:**

   Contours are inapplicable.

   Drainage was delineated from office interpretation of photographs.

35. **SHORELINE AND ALONGSHORE DETAILS:**

   The shoreline was delineated from office interpretation of infrared photography taken at Mean High Water. Alongshore details were delineated from office interpretation of color photography taken at Mean Low Water.

36. **OFFSHORE DETAILS:**

   No statement.

37. **LANDMARKS AND AIDS:**
38. **CONTROL FOR FUTURE SURVEYS:**

None

39. **JUNCTIONS:**

Junctions are in agreement with T-12981 to the north, T-12985 to the east, T-13242 to the south, and T-12388 to the west.

40. **HORIZONTAL AND VERTICAL ACCURACY:**

No statement.

46. **COMPARISON WITH EXISTING MAPS:**

A comparison has been made with USGS Quadrangle Lynn, Mass., scale 1:24,000 dated 1956.

47. **COMPARISON WITH NAUTICAL CHARTS:**


**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:**

None

**ITEMS TO BE CARRIED FORWARD:**

None

Submitted by:

L.L. Graves
Cartographic Technician

Approved:

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

FINAL NAME SHEETS

Ph-660L (Boston to Plum Island, Mass.)

T-12934

Beachmont
Belle Isle Inlet
Boston and Maine (RR)
Boston Harbor
Broad Sound
Cherry Island Bar
Crescent Beach
Diamond Creek
Grovers Cliff
Lewis Lake
Logan International Airport
META
Ocean Spray
Oak Island
Pines River
Point of Pines
Revere
Revere Beach (locality)
Revere Beach
Sales Creek
Short Beach
Short Beach Creek
Winthrop
Winthrop Beach
Winthrop Highlands
Youngs Hill

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-12984

1. PROJECTION AND GRIDS       2. TITLE       3. MANUSCRIPT NUMBERS       4. MANUSCRIPT SIZE
RJP                                RJP                                RJP                                RJP

CONTROL STATIONS
5. HORIZONTAL CONTROL STATIONS OF
   THIRD-ORDER OR HIGHER ACCURACY
   RJP
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
   RJP
10. PHOTOGRAMMETRIC PLOT REPORT
    RJP
11. DETAIL POINTS
    RJP

ALONGSHORE AREAS (Nautical Chart Data)
12. SHORELINE
    RJP
13. LOW-WATER LINE
    RJP
14. ROCKS, SHOALS, ETC.
    RJP
15. BRIDGES
    RJP
16. AIDS TO NAVIGATION
    RJP
17. LANDMARKS
    RJP
18. OTHER ALONGSHORE PHYSICAL FEATURES
    RJP
19. OTHER ALONGSHORE CULTURAL FEATURES
    RJP

PHYSICAL FEATURES
20. WATER FEATURES
    RJP
21. NATURAL GROUND COVER
    XX
22. PLANETABLE CONTOURS
    XX
23. STEREOSCOPIC INSTRUMENT CONTOURS
    XX
24. CONTOURS IN GENERAL
    XX
25. SPOT ELEVATIONS
    XX
26. OTHER PHYSICAL FEATURES
    RJP

CULTURAL FEATURES
27. ROADS
    RJP
28. BUILDINGS
    RJP
29. RAILROADS
    RJP
30. OTHER CULTURAL FEATURES
    XX

BOUNDARIES
31. BOUNDARY LINES
    XX
32. PUBLIC LAND LINES
    XX

MISCELLANEOUS
33. GEOGRAPHIC NAMES
    RJP
34. JUNCTIONS
    RJP
35. LEGIBILITY OF THE MANUSCRIPT
    T-13242
    LLG
    RJP

36. DISCREPANCY OVERLAY
    RJP
37. DESCRIPTIVE REPORT
    RJP
38. FIELD INSPECTION PHOTOGRAPHS
    RJP
39. FORMS

40. REVIEWER
    Albert C. Rauck, Jr.
    for
    R. J. Pate
    June 12, 1972

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.

COMPILED
L. L. Graves
June 6, 1972

SUPERVISOR
Albert C. Rauck, Jr.

R. J. Pate
June 13, 1972

REMARKS
FIELD EDIT REPORT
JOB FH-6601
MAP T-12984
MASSACHUSETTS

This map was field-edited during the latter part of July and August 1970. The map was compiled without field inspection prior to compilation, therefore, a complete and thorough field edit was done. This map area is covered by photography taken June 1970; therefore most shore line features are referenced to these photos. 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 of this map was good. A few representative areas were selected to check the high water line.

Distances were measured from photo points to the high water line and noted on the photos. These are referenced from the field edit sheet. A visual inspection of the low water line was made in a few areas, all of which agreed generally with the compilers interpretation.

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.

The chart name of one landmark in the area of the town of Winthrop is recommended to be changed from TOWER to BELL TOWER; this is noted on the field edit sheet and on form 567. There are only two aids in this map area: these are BLACK ROCKS LIGHT #9, and WHITE ROCKS LIGHT #7. These aids have been numbered within the last year.

57. ROCKS AND ROCK LEDGES

Rocks in question and additional rocks have been shown on the photographs and referenced from the field edit sheet.

Two rocks areas, one near Revera Beach and one near breakwater at Winthrop Beach, have most of the rocks located by sextant fixes. These were plotted on the cronaflex sheet along with the angles and are referenced from the field edit sheet.

All ledge areas in question were inspected at or near low water; there were no ledges visible in these areas; these areas should be charted as rocky areas.

58. MISCELLANEOUS

A few sheets are noted on the field edit sheet and referenced to the photographs. Buildings to be mapped were either checked directly on the field edit ozalid or circled on the photographs and referenced from the field edit ozalid.

Field edit corrections and additions have been shown on the following photographs: 65-S-7234, 66-E-2917, 70-L-3979 and 70-L-3982.

SUBMITTED BY: Erwest W. Hartford
Surveying Technician
August 31, 1970
TO BE CHARTED

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

The positions given have been checked after listing by

L. L. Graves
Director, AMC

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDES</th>
<th>LONGITUDES</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADIO TOWER</td>
<td>(WRYT) 4 Legged Skeleton Steel Tower ht. = 280 (285)</td>
<td>42 26</td>
<td>242.9</td>
<td>70 59</td>
<td>626.6</td>
<td>1927</td>
<td>Triang. 6/19/70</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>(Lynn Radio Station WORL Tower, 1958)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X 240 623 SC</td>
</tr>
<tr>
<td>STACK</td>
<td>Radial Red Brick, Ht. = 102 (121 (Revere Beach, Stack, 1919)</td>
<td>42 24</td>
<td>52.213</td>
<td>70 59</td>
<td>636.9</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>TOWER</td>
<td>Square Red Brick Ht. = 69 (78) (Revere Police Tower, 1934)</td>
<td>42 24</td>
<td>50.399</td>
<td>70 59</td>
<td>550.5</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>DOME</td>
<td>A top 4 legged Skeleton Steel ht. = 115 (183)</td>
<td>42 23</td>
<td>20.84</td>
<td>70 58</td>
<td>247</td>
<td>Photo</td>
<td>T-12984</td>
<td>X</td>
</tr>
<tr>
<td>RADIO TOWER</td>
<td>4 Legged Skeleton Steel, ht. = 132 (137) (Winthrop, Boston Radio Center Tower, 1943)</td>
<td>42 23</td>
<td>23.329</td>
<td>70 59</td>
<td>171.8</td>
<td>Triang.</td>
<td>T-12984</td>
<td>X</td>
</tr>
</tbody>
</table>

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.

* Tabulate Seconds and Meters
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

L. L. Graves

Chief of Party:

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE D.P. METERS</th>
<th>LONGITUDE D.P. METERS</th>
<th>METHOD OF LOCATION AND SURVEY No.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BROAD SOUND</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LYNN HARBOR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIGHT 9</td>
<td>Black Rocks Light 9 (Black Rocks Light, 1954)</td>
<td></td>
<td></td>
<td>59.139</td>
<td>54.568</td>
<td>NA Triang. Verif.</td>
<td>12984</td>
<td>X 513 SC</td>
</tr>
<tr>
<td>LIGHT 7</td>
<td>White Rocks Light 7 (White Rocks Light, 1954)</td>
<td></td>
<td></td>
<td>52.931</td>
<td>16.517</td>
<td></td>
<td></td>
<td>X 513 SC</td>
</tr>
</tbody>
</table>

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* TARULATE SECONDS AND METERS
TO BE CHARTED

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

The positions given have been checked after listing by L. L. Graves

| STATE       | CHARTING NAME   | DESCRIPTION                        | SIGNAL NAME | LATITUDES | LONGITUDE | DATUM | METHOD OF LOCATION AND SURVEY NO. | DATE OF LOCATION | CHARTS AFFECTED |
|-------------|-----------------|------------------------------------|-------------|-----------|-----------|-------|-----------------------------------|------------------|----------------|------------------|
| MASSACHUSETTS | TOWER           | Square, Red Brick, Ht. = 95        |             | 42 22     | 46.360    | 00.294 | NA                                 | 6/19/70          | X 513 SC 248    |
|             |                 | (L35) Winthrop Catholic Church     |             |           | 1430.4    | 70.59  | 6.7 1927 T-12988                   |                  | X 246 248 SC    |
|             |                 | Tower, 1934                        |             |           |           |       |                                    |                  |                |
|             | TOWER           | Small Dome, Ht. = 83 (L33)         |             | 42 22     | 35.829    | 03.749 |                                    | 6/19/70          | X 513 SC 248    |
|             |                 | (Winthrop Methodist Church Spire, 1934) |           |           | 1105.5    | 70.59  | 85.8 6/19/70                      |                  | X 246 248 SC    |

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* TABULATE SECONDS AND METERS
I recommend that the following objects which have (deleted from) been inspected from seaward to determine their value as landmarks be (deleted from) the charts indicated.

The positions given have been checked after listing by

L. L. Graves
Director, AMC

Alfred C. Holmes
Chief of Party

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<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDES</th>
<th>LONGITUDES</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASSACHUSETTS</td>
<td>TOWER</td>
<td>Winthrop, Boston Radio, Northwest TOWER, 1943</td>
<td>42 23</td>
<td>24.409</td>
<td>11.227</td>
<td>Triang., Verif.</td>
<td>X</td>
<td>246</td>
</tr>
<tr>
<td></td>
<td>TOWER</td>
<td>Winthrop, Boston Radio, Southeast TOWER, 1943</td>
<td>42 23</td>
<td>19.573</td>
<td>08.971</td>
<td>T-12984 1970</td>
<td>X</td>
<td>246</td>
</tr>
<tr>
<td></td>
<td>TOWER</td>
<td>Winthrop, Boston Radio, Northeast TOWER, 1943</td>
<td>42 23</td>
<td>26.383</td>
<td>06.544</td>
<td>X</td>
<td>246</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TOWER</td>
<td>Winthrop, Boston Radio, Southeast TOWER, 1943</td>
<td>42 23</td>
<td>22.251</td>
<td>03.800</td>
<td>X</td>
<td>246</td>
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This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-15, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nautical 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-12984

SHORELINE

October, 1973

61. GENERAL STATEMENT

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

None available here at this time. Indexes show the only prior surveys of this area to be too far out of date for any usefulness. This survey supersedes any prior surveys 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 only significant discrepancy is the ledge areas shown from Cherry Island Bar to Winthrop Highlands. The field editor defines these areas as foul with rocks not ledge. These are indicated on the discrepancy print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with boat sheet H-9134 dated 1970 at 1:10,000 scale. In general the comparison was very good. The shape of one area fouled with rocks at 42°25' Lat. and 70°58' Long. is different. The shape given by the hydrographer is believed to be better, since it is substantiated by hydro reading on the boat sheet, and should be used. It is indicated on the discrepancy print in purple.

The boat sheet does not cover south of 42°24'45" Lat. in Broad Sound.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 240 at 1:25,000 scale dated 5/19/73. There is good general agreement with a few exceptions. These are noted on the discrepancy print in red.
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Bernard Kurs
Cartographer

Approved for forwarding:

Victor E. Serena
Chief, Photogrammetric Branch, AMC

Chief, Photogrammetric Branch
Field editor defines these areas as foul with rock, not ledge.
"The photogrammetric surveys offshore from the main pier may not be complete and should be reviewed hydrographically."

Beach

65-S-6933R

65-S-7235

H.9134

PL 10-3-70

Foul with rocks

25' 30"

42° 24' 30"

T-12384