T-12981

DESCRIPTIVE REPORT

Type of Survey: Shoreline (Photogrammetric)
Field No.: T-12981

LOCALITY
State: Massachusetts
General locality: Boston to Plum Island
Locality: Lynn Harbor

1965-69

CHIEF OF PARTY
Alfred C. Holmes, Director, AMC

LIBRARY & ARCHIVES

DATE
DESCRIPTIVE REPORT - DATA RECORD
T-12981

PROJECT NO. (III):
Job - Ph-6601

FIELD OFFICE (III):
None

PHOTOGRAHMATIC OFFICE (III):
Atlantic Marine Center

CHIEF OF PARTY

OFFICER-IN-CHARGE
Alfred C. Holmes, Director, AMC

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

METHOD OF COMPILATION (III):
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:

DATE REGISTERED (IV):
SEPT. 1975

GEOMETRIC DATUM (III):
NA 1927

VERTICAL DATUM (III):
NAD 1927 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):
HIGH ROCK 3, 1934

LAT.: 42°28'04.428" (136.6M) LONG.: 70°56'49.004" (1119.5M)

ADJUSTED
UNADJUSTED

PLANE COORDINATES (IV):

Y = X =

STATE Massachusetts
ZONE Mainland

MAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAHMATIC 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-12981**

**FIELD INSPECTION BY (IV):**

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:** 5/27/66

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

R. Glaser

**DATE:** 6/1/66

**CONTROL PLOTTED BY (III):**

L. Neterer

**DATE:** 9/19/66

**CONTROL CHECKED BY (III):**

A. Santillan

**DATE:** 9/19/66

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

Henry P. Eichert

**DATE:** 11/1/66

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

- **PLANIMETRY**
  - B.H. Barnes
  - **DATE:** 4/27/67
  - **CONTOURS**
  - Inapplicable

**MANUSCRIPT Delineated By (III):**

C.H. Bishop and B. Wilson

**DATE:** 10/18/67

**SCRIBING BY (III):**

**DATE:**

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

A.C. Rauck, Jr.

**DATE:** Nov. 21, 1967

**REMARKS:**
## Descriptive Report - Data Record

### T-12981

#### Observer (Kind or Source) (III):
Wild RC '86

### Photographs (III) Tide Controlled

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>65-S-(c)-7225 &amp; 7226</td>
<td>31 Aug. 65</td>
<td>08:39</td>
<td>1:30,000</td>
<td>0.1 Pt. below MLW*</td>
</tr>
<tr>
<td>65-S-6920 R thru 6922 R</td>
<td>24 Aug. 65</td>
<td>08:41</td>
<td>1:30,000</td>
<td>8.3 Pt. above MLW*</td>
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### Tide (III)

<table>
<thead>
<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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</tbody>
</table>

<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>
<td></td>
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</tbody>
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#### Washington Office Review by (IV):
Bernard Kurs, AMC

#### Date:
Nov. 1973

### Number of Triangulation Stations Searched For (III):
17

### Recovered:
15

### Identified:
13

### Number of BM(5) Searched For (III):
0

### Recovered:
0

### Identified:
0

#### Number of Recoverable Photo Stations Established (III):
0

#### Number of Temporary Photo Hydro Stations Established (III):
None

### 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 28 April 1966.
<table>
<thead>
<tr>
<th>COMPILATION RECORD</th>
<th>COMPLETION DATE</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>Ready for lot review</td>
<td>Oct. 18, 1967</td>
<td>Superseded</td>
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<tr>
<td>Alongshore area for hydro</td>
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<td></td>
</tr>
<tr>
<td>Advance field edit applied</td>
<td>Oct. 1969</td>
<td>Superseded</td>
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<tr>
<td>Final Review</td>
<td>Nov. 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-12981

There was no field inspection prior to compilation.
PHOTOGRAMMETRIC PLOT REPORT
Job PH-6501
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 P. Eichert
AEROTRIANGULATION SKETCH
BOSTON TO PLUM ISLAND
PH-6601
May, 1966

△ control used in adjustment
△ control used as check
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 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)

6. 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. pl. A: (-7.1, +3.1)

- Office identified: (+4.8, +1.9)

9. Fort Pickering Lighthouse, 1877
- Office identified: (+6.0, +1.0)

14. High Rock 2 (MGS)
- Sub. pl. A: (+3.2, -4.4)
- Sub. pl. 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. pl. A: (+3.4, -1.4)

- Office identified: (+1.5, +2.2)

20. Medford Radio Station, WEZ-AM Tower, 1953
- Office identified: (+2.1, -1.0)

21. Medford TV Station, WNAC Tower, 1958
- Office identified: (+5.3, -1.0)
22. MEDFORD RADIO STATION WEZ NE TOWER, 1933
   Office identified (+1.4, +3.0)

23. MEDFORD RADIO STATION WEZ SW TOWER, 1933
   Office identified (+1.2, +3.1)

24. STRIP #3

25. BOSTON STATE HOUSE, 1934
   Office identified (+2.6, +5.5)

27. BOSTON CUSTOM HOUSE TOWER, 1916
   Office identified (+3.7, +4.7)

28. CHARLESTOWN BUNKER HILL M.M., 1846
   Office identified (+4.2, +0.1)

26. EAST BOSTON, BOSTON AND ALBANY R.R. TANK, 1916
   Office identified (+1.6, +5.5)

29. CHELSEA QUIGLEY M.M. HOSPITAL W.T., 1938
   Office identified (+2.3, -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. B (+2.9, +3.2)

16. MAHANT COAST GUARD CUPOLA, 1919
   Office identified (+3.6, +6.4)
13. SWAMPSOCT. HIGH SCHOOL STAIRS, 1940
   office identified: (+0.7, +2.4)

12. SWAMPSOCT. LARGER STANDPIPE, 1934
   office identified: (+0.7, +1.8)

11. MARBLEHEAD, ABBOT TOWER, 1717
   office identified: (-0.6, +1.4)

10. MARBLEHEAD LIGHTHOUSE, 1714
   office identified: (+2.0, +5.1)

  7. MANCHESTER CHURCH PARK SPIRE, 1878
     target: (-3.5, -5.2)
     sub pt A: (-4.1, -5.2)

  1. MEAD 2 (M65), 1934
     target: (+3.8, -0.2)
     sub pt: (+1.2, -1.2)

  5. STONEHAVEN (ROCKPORT TOWN M66), 1939
     target: (-2.1, +0.3)
     sub pt A: (-1.3, +1.6)
     sub pt B: (-2.0, +1.2)

  6. STRAITSMOUTH LIGHTHOUSE, 1902
     office identified: (-3.1, -5.2)
STRIPE # 17

39  DANVERS COOKE CO. CHIMNEY, 1919

N4E STA (-0.78 +0.79)

SE "A" (-0.01 -0.01)

SE "B" (-1.83 +1.74)

30  BEVERLY UNITED SHOE MFG. CO. STK, 1931

(-0.01 -0.01)

51  BEVERLY ODD FELLOWS CUPOLA, 1931

(-1.27 +1.55)

32  BEVERLY ST. MARY'S CHURCH SPIRE, 1924

(-1.32 -1.09)

33  BEVERLY 1ST BAPTIST CHURCH, 1914

(+1.35 +1.10)

TIE POINTS

12601 (-0.28 -6.78)

12602 (-3.75 -3.20)

13601 (-2.56 -3.47)

14601 (-3.15 -1.53)
<table>
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>LONGITUDE OR X COORDINATE</th>
<th>SCALE OF MAP 1:10,000</th>
<th>SCALE FACTOR</th>
<th>None</th>
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<tbody>
<tr>
<td>LYNN CATHOLIC CHURCH SPIRE 1934</td>
<td>Vol. I Pg. 58</td>
<td>42° 28' 02.823&quot;</td>
<td>70° 56' 29.142&quot;</td>
<td>87.1</td>
<td>1764.3</td>
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<td>665.8</td>
<td>704.9</td>
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<td>LYNN FIRST UNIVERSALIST CHURCH TOWER, 1934</td>
<td>Vol. I Pg. 59</td>
<td>42° 27' 46.068&quot;</td>
<td>70° 56' 18.649&quot;</td>
<td>142.5</td>
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<td>426.1</td>
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<td>LYNN, STACK NO I 1934</td>
<td>Vol. I Pg. 99</td>
<td>42° 27' 15.688&quot;</td>
<td>70° 57' 18.722&quot;</td>
<td>484.1</td>
<td>1367.3</td>
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<td>427.8</td>
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<td>LYNN OBSERVATORY 1916</td>
<td>Vol. I Pg. 506</td>
<td>42° 28' 04.487&quot;</td>
<td>70° 56' 48.963&quot;</td>
<td>138.5</td>
<td>1712.9</td>
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<td>1138.6</td>
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<td>LYNN RADIO STATION WLYN MAST. 1958</td>
<td>Vol. I Pg. 28</td>
<td>42° 27' 10.379&quot;</td>
<td>70° 58' 50.212&quot;</td>
<td>320.3</td>
<td>1531.0</td>
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<td>1147.4</td>
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<td>LYNN BEACH 155 O.F. (USE), 1940</td>
<td>Vol. I Pg. 288</td>
<td>42° 26' 37.161&quot;</td>
<td>70° 56' 23.029&quot;</td>
<td>1145.6</td>
<td>704.7</td>
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<td>526.3</td>
<td>845.0</td>
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<td>WESTERN AVE M.H.B., 1934</td>
<td>Vol. I Pg. 330</td>
<td>42° 27' 03.596&quot;</td>
<td>70° 58' 40.996&quot;</td>
<td>111.0</td>
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<td>1028.2</td>
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<td>POINT OF PINES 1934</td>
<td>Vol. I Pg. 34</td>
<td>42° 26' 27.464&quot;</td>
<td>70° 57' 40.995&quot;</td>
<td>847.4</td>
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<td>936.9</td>
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<td>EDWARDS 1935</td>
<td>Vol. I Pg. 329</td>
<td>42° 26' 37.578&quot;</td>
<td>70° 58' 00.310&quot;</td>
<td>119.5</td>
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<th>STATION</th>
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<th>DATUM</th>
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<th>LONGITUDE OR X COORDINATE</th>
<th>SCALE FACTOR</th>
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<tr>
<td>LYNN, METHODOIST CHURCH SPIRE 1934</td>
<td>Vol. I Pg. 56</td>
<td>NA 1927</td>
<td>42° 27' 52.359&quot;</td>
<td>1615.6</td>
<td>None</td>
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<td>HIGH ROCK 3 1934</td>
<td>Vol. I Pg. 34</td>
<td>&quot;</td>
<td>42° 28' 04.428&quot;</td>
<td>136.6</td>
<td>(1714.8)</td>
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<td>LYNN GAS CO. CHIMNEY 1934</td>
<td>Vol. I Pg. 55</td>
<td>&quot;</td>
<td>42° 27' 14.295&quot;</td>
<td>441.1</td>
<td>(1410.3)</td>
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<td>LYNN, HOODS, STACK 1934</td>
<td>Vol. I Pg. 56</td>
<td>&quot;</td>
<td>42° 27' 26.210&quot;</td>
<td>808.7</td>
<td>(1042.7)</td>
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<tr>
<td>LYNN GAS CO. LARGE GAS TANK 1915</td>
<td>Vol. I Pg. 57</td>
<td>&quot;</td>
<td>42° 27' 19.061&quot;</td>
<td>588.1</td>
<td>(1263.3)</td>
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<td>LYNN, GENERAL ELECTRIC WEST STACK 1916</td>
<td>Vol. I Pg. 57</td>
<td>&quot;</td>
<td>42° 26' 57.450&quot;</td>
<td>1772.7</td>
<td>(78.7)</td>
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<tr>
<td>SANDY POINT LIGHT 1954</td>
<td>Vol. I Pg. 891</td>
<td>&quot;</td>
<td>42° 26' 34.185&quot;</td>
<td>1054.8</td>
<td>(796.6)</td>
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<tr>
<td>BLACK MARSH CHANNEL LIGHT 1954</td>
<td>Vol. I Pg. 891</td>
<td>&quot;</td>
<td>42° 26' 53.823&quot;</td>
<td>1660.8</td>
<td>(190.6)</td>
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<td>UPPER TURN LIGHT 1954</td>
<td>Vol. I Pg. 891</td>
<td>&quot;</td>
<td>42° 27' 10.438&quot;</td>
<td>322.1</td>
<td>(1529.3)</td>
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</table>

COMPUTED BY L.L. Graves  DATE  10/11/66  CHECKED BY JLP  DATE  10/12/66
COMPILATION REPORT
T-12981

31. **DELINEATION:**
   
   The B-8 plotter was used. There no field inspection. Photography was satisfactory.

32. **CONTROL:**
   
   See Photogrammetric Plot Report.

33. **SUPPLEMENTAL DATA:**
   
   None

34. **CONTOURS AND DRAINAGE:**
   
   Contours inapplicable. Drainage - no statement.

35. **SHORELINE AND ALONGSHORE DETAILS:**
   
   There was no field inspection. The shoreline was delineated from the high water infrared photography. The "color" photographs as well as the infrared were used in inspection of the cultural details. The low water lines were delineated from the color photographs.

36. **OFFSHORE DETAILS:**
   
   No statement.

37. **LANDMARKS AND AIDS:**
   
   Forms 567 for 4 non-floating aids and 9 landmarks for charts were submitted October 14, 1969.

   Form 567 for the deletion of one landmark was also submitted on the same date.
38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Satisfactory junctions have been made with: T-12982 to the east, T-12984 to the south. There are no contemporary surveys to the north and west.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement,

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made USGS Quadrangles BOSTON, NORTH, MASS., Scale 1:24,000, dated 1956 and Lynn, Mass., scale 1:24,000 dated 1956.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with chart 240, scale 1:25,000, edition of Aug. 15, 1960, revised Feb. 8, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Respectfully submitted:

[Signature]

B. Wilson
Cartographic Technician
November 1967
Approved:

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

FINAL NAME SHEETS

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

T-12981

Bear Creek
Boston and Maine (RR)
East Saugus
Fox Hill Bascule Bridge
General Edwards Bascule Bridge
Lynn
Lynn Harbor
Nahant Bay
Nahant Beach
Pines River
Point of Pines
Revere Beach
Sand Point
Saugus River

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".
PHOTOGRAFMETRIC OFFICE REVIEW
T-12981

<table>
<thead>
<tr>
<th>1. PROJECTION AND GRIDS</th>
<th>2. TITLE</th>
<th>3. MANUSCRIPT NUMBERS</th>
<th>4. MANUSCRIPT SIZE</th>
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<tr>
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<td>ACR</td>
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</table>

CONTROL STATIONS

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<thead>
<tr>
<th>5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY</th>
<th>6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)</th>
<th>7. PHOTO HYDRO STATIONS</th>
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BENCHMARKS

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<tr>
<th>8. BENCHMARKS</th>
<th>9. PLOTTING OF SEXTANT FIXES</th>
<th>10. PHOTOGRAMMETRIC PLOT REPORT</th>
<th>11. DETAIL POINTS</th>
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<tbody>
<tr>
<td>XX</td>
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<td>Bridge W.O.</td>
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ALONGSHORE AREAS (Nautical Chart Data)

<table>
<thead>
<tr>
<th>12. SHORELINE</th>
<th>13. LOW-WATER LINE</th>
<th>14. ROCKS, SHOALS, ETC.</th>
<th>15. BRIDGES</th>
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AIDS TO NAVIGATION

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<tr>
<th>16. AIDS TO NAVIGATION</th>
<th>17. LANDMARKS</th>
<th>18. OTHER ALONGSHORE PHYSICAL FEATURES</th>
<th>19. OTHER ALONGSHORE CULTURAL FEATURES</th>
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PHYSICAL FEATURES

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<thead>
<tr>
<th>20. WATER FEATURES</th>
<th>21. NATURAL GROUND COVER</th>
<th>22. PLANETARY CONTOURS</th>
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<tbody>
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STEREOSCOPIC INSTRUMENT CONTOURS

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<tr>
<th>23. STEREOSCOPIC INSTRUMENT CONTOURS</th>
<th>24. CONTOURS IN GENERAL</th>
<th>25. SPOT ELEVATIONS</th>
<th>26. OTHER PHYSICAL FEATURES</th>
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</thead>
<tbody>
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<td>XX</td>
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CULTURAL FEATURES

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<thead>
<tr>
<th>27. ROADS</th>
<th>28. BUILDINGS</th>
<th>29. RAILROADS</th>
<th>30. OTHER CULTURAL FEATURES</th>
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BOUNDARIES

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<thead>
<tr>
<th>31. BOUNDARY LINES</th>
<th>32. PUBLIC LAND LINES</th>
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MISCELLANEOUS

<table>
<thead>
<tr>
<th>33. GEOGRAPHIC NAMES</th>
<th>34. JUNCTIONS</th>
<th>35. LEGIBILITY OF THE MANUSCRIPT</th>
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DISCREPANCY OVERLAY

<table>
<thead>
<tr>
<th>36. DISCREPANCY OVERLAY</th>
<th>37. DESCRIPTIVE REPORT</th>
<th>38. FIELD INSPECTION PHOTOGRAPHS</th>
<th>39. FORMS</th>
</tr>
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<tbody>
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REVIEWER

<table>
<thead>
<tr>
<th>Albert C. Rauch, Jr.</th>
<th>Nov. 1967</th>
</tr>
</thead>
</table>

SUPERVISOR, REVIEW SECTION OR UNIT

<table>
<thead>
<tr>
<th>Albert C. Rauch, Jr.</th>
</tr>
</thead>
</table>

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

- 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 41.

COMPILED BY

|------------------|---------------|

SUPERVISOR

<table>
<thead>
<tr>
<th>Albert C. Rauch, Jr.</th>
</tr>
</thead>
</table>

REVIEWED BY

<table>
<thead>
<tr>
<th>R. J. Pate</th>
<th>Oct. 27, 1969</th>
</tr>
</thead>
</table>

REMARKS

FIELD EDIT-REPORT
JOB PH-6601
Map T-12981
Massachusetts

This map was field-edited during August 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 print and referenced from the field edit sheet.

52. ADEQUACY OF COMPILATION

The compilation was adequate. The shoreline was checked by measurements from photographic points and was found to be 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 sheet.

57. ROCKS AND ROCK LEDGES

All rocks were investigated at low-water. There are only a few rocks on this sheet and they have been noted on the photographs. The former bases of the lights in Lynn Harbor Channel can be seen on the photographs. These are composed of rocks, not rock ledges.

58. MISCELLANEOUS

Copies of Form 526 are submitted for all nautical landmarks and aids which have triangulation positions and for other triangulation stations used during photo-hydro support.

There have been several man-made changes in the shoreline at the northern end of Lynn Harbor since the photographs were flown. Some construction was in progress at time of field edit. Changes have been noted on the photograph and cross-referenced from the field edit ozalid.

Field edit corrections are shown on ratio print 65-S-7236 and 65-S-7226.

Submitted By:
Ernest W. Hartford
Surveying Technician
August 29, 1969
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be checked on the charts indicated.

The positions given have been checked after listing by Albert C. Rauch, Jr.

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION VERIFI</th>
<th>CHARTS AFFECTED</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>808.7'</td>
<td>70 57'</td>
<td>602.6'</td>
<td></td>
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</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 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.

---

TO BE CHARTED
TO BE REVISED
TO BE DELETED
STRIKE OUT TWO
**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

Atlantic Marine Center  October 14, 1969

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

Albert C. Rauck, Jr.

Allen L. Powell, Director, AMC

<table>
<thead>
<tr>
<th>STATE</th>
<th>MASSACHUSETTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>BROAD SOUND LIGHT</td>
<td>(Upper Turn Light, 1954)</td>
</tr>
<tr>
<td>LIGHT</td>
<td>(Black Marsh Channel Light, 1954)</td>
</tr>
<tr>
<td>LIGHT</td>
<td>(Sandy Point Light, 1954)</td>
</tr>
</tbody>
</table>

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* TABULATE SECONDS AND METERS
## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Atlantic Marine Center  
October 14, 1969

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

Albert C. Rauck, Jr.

Allen L. Powell, Director, AMC  
Chief of Party

### Massachusetts

<table>
<thead>
<tr>
<th>State</th>
<th>Charting Name</th>
<th>Description</th>
<th>Signal Name</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Datum</th>
<th>Method of Location and Survey No.</th>
<th>Date of Location Verification</th>
<th>Charts Affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>LYNN</td>
<td>(Lynn Gas Co., Large Gas Tank, 1919) grey, round, ht= 215</td>
<td>42 27' 19.061&quot; N 09 502' 217.1'</td>
<td>NA</td>
<td>T12981</td>
<td>7/23/69</td>
<td>x</td>
<td>240</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TANK</td>
<td>(Lynn Gas Co., Chimney, 1934) round, red, ht= 153</td>
<td>42 27' 14.295&quot; N 06 699' 201.1'</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td>240</td>
<td></td>
</tr>
<tr>
<td>CHIMNEY</td>
<td>(Lynn Observatory, 1916) stone, square, ht= 58</td>
<td>42 28' 04.487&quot; N 48 363' 229.8'</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td>7/23/69</td>
<td>x</td>
<td>240</td>
<td></td>
</tr>
<tr>
<td>SPIRE</td>
<td>(Lynn Catholic Church Spire, 1934) slate roof, gilded cross, ht= 162</td>
<td>42 28' 67.1&quot; N 06 56' 665.8'</td>
<td>&quot;</td>
<td>&quot;</td>
<td>&quot;</td>
<td>7/7/69</td>
<td>x</td>
<td>240</td>
<td></td>
</tr>
<tr>
<td>TOWER</td>
<td>(Lynn First Universalist Church Tower, 1934) red brick with green trim, ht= 135</td>
<td>42 27' 1421.5&quot; N 18 649' 426.1'</td>
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<td>&quot;</td>
<td>7/7/69</td>
<td>x</td>
<td>240</td>
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<td></td>
</tr>
<tr>
<td>STACK</td>
<td>(Lynn Stack No. 1, 1934) yellow brick, ht= 123</td>
<td>42 27' 15.688&quot; N 18 722' 427.8'</td>
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<td>&quot;</td>
<td>7/23/69</td>
<td>x</td>
<td>240</td>
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<tr>
<td>STACK</td>
<td>(Lynn General Electric West Stack, 1916) yellow brick, ht= 135</td>
<td>42 26' 1772.7&quot; N 25 610' 585.2'</td>
<td>&quot;</td>
<td>&quot;</td>
<td>8/12/69</td>
<td>x</td>
<td>240</td>
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<td></td>
</tr>
<tr>
<td>MAST</td>
<td>(Lynn Radio Station WLYN Mast, 1958) red/white, steel, ht= 267</td>
<td>42 27' 10.379&quot; N 50 212' 1147.4'</td>
<td>&quot;</td>
<td>&quot;</td>
<td>8/12/69</td>
<td>x</td>
<td>240</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STANDPIPE</td>
<td>Standpipe, grey, steel, ht= 88</td>
<td>42 26' 48.19&quot; N 19.34'</td>
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<td>&quot;</td>
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<td>x</td>
<td>240</td>
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</tbody>
</table>

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* TABULATE SECONDS AND METERS
REVIEW REPORT T-12981
Shoreline
November, 1973

61. **GENERAL STATEMENT:**

See summary which is page 6 of the Descriptive Report.

62. **COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:**

A visual comparison was made with Registered Survey Number 2199. Most of the changes are of a cultural nature. The harbor has been dredged, and much of the shoreline has been bulkheaded, along with natural changes.

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

63. **COMPARISON WITH MAPS OF OTHER AGENCIES:**

Comparison was made with U.S.G.S. Quadrangle Lynn, Mass. dated 1956 at 1:24,000 scale. There was very good general agreement. There are some natural changes and some bulkheading and piers. Nothing of real significance.

64. **COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:**

Comparison was made with boat sheet H-9134, 1970 at 1:10,000 scale. There are no changes other than those made by the field editor. These were not considered significant.

65. **COMPARISON WITH NAUTICAL CHARTS:**

Comparison was made with chart 240 dated May 19, 1973 at 1:25,000 scale. There are just a few minor changes in shoreline, otherwise, they are in good agreement.

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:

[Signature]

Viktor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

[Signature]

Chief, Photogrammetric Branch for Chief, Coastal Mapping Division