

NOAA FORM 76-35
(6-80)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Map No.

TP-00766

Edition No.

1

Job No.

CM-7407

Map Classification

FINAL, FIELD EDITED MAP

Type of Survey

SHORELINE

LOCALITY

State

MASSACHUSETTS

General Locality

BUZZARDS BAY

Locality

POCASSET HARBOR

19 74 TO 19 80

REGISTERED IN ARCHIVES

DATE

| | | | |
|--|--|---|---|
| NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN. | | TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED | SURVEY TP. <u>00766</u> MAP EDITION NO. (1) MAP CLASS FINAL JOB PH <u>CM-7407</u> |
| DESCRIPTIVE REPORT - DATA RECORD | | LAST PRECEDING MAP EDITION | |
| PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center, Norfolk, VA | | TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED | |
| OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR | | JOB PH- _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__ | |
| I. INSTRUCTIONS DATED | | | |
| 1. OFFICE | | 2. FIELD | |
| Aerotriangulation March 20, 1975 Compilation April 17, 1975 Memo November 12, 1975 Amendment PH-6311 November 14, 1975 Supplement I December 04, 1975 Supplement II July 19, 1976 | | Horizontal Control January 30, 1974 (Premarking) Amendment I March 08, 1974 | |
| II. DATUMS | | | |
| 1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN | | OTHER (Specify) | |
| 2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL | | OTHER (Specify) | |
| 3. MAP PROJECTION Lambert Conformal | | 4. GRID(S) | |
| 5. SCALE 1:10,000 | | STATE Massachusetts | ZONE Mainland |
| III. HISTORY OF OFFICE OPERATIONS | | | |
| OPERATIONS | | NAME | DATE |
| 1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY | | M. McGinley | April 1975 |
| 2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Calcomp CHECKED BY | | R. Robertson R. Robertson | April 1975 April 1975 |
| 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:10,000 CONTOURS BY CHECKED BY | | C. Blood A. C. Rauck, Jr. N.A. N.A. | March 1976 March 1976 |
| 4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth drafted CONTOURS BY CHECKED BY SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY | | F. Mauldin A. L. Shands N.A. N.A. F. Mauldin A. L. Shands | June 1976 June 1976 |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY | | A. L. Shands | June 1976 |
| 6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY | | C. Blood F. Margiotta/F. Mauldin | March 1978 & May 1981 5/78 & 5/81 |
| 7. COMPILATION SECTION REVIEW BY | | F. Margiotta/F. Mauldin | 5/78 & 5/81 |
| 8. FINAL REVIEW BY | | J. Hancock | Nov. 1984 |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY | | J. Hancock | Feb. 1985 |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY | | J. Schad | March 1985 |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION BY | | R. KORNSPAN | April 1985 |

TP-00766
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

| CAMERA(S) $f=152.71\text{mm}$, $C=88.74\text{mm}$, $Z=153.14\text{mm}$ Wild RC-8"E", RC-10"C", RC-10"Z" | | TYPES OF PHOTOGRAPHY LEGEND | | TIME REFERENCE | |
|--|---------------|---|------------|-----------------------------------|--|
| TIDE STAGE REFERENCE | | (C) COLOR (P) PANCHROMATIC (I) INFRARED | | ZONE | |
| <input type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY | | | | Eastern | |
| | | | | MERIDIAN | |
| | | | | 75th | |
| | | | | <input type="checkbox"/> DAYLIGHT | |
| NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE | |
| 74 C(C) 9480 - 9482 ✓ | Apr. 18, 1974 | 10:33 | 1:60,000 ✓ | 0.2 ft. above MLW*** | |
| 74 E(C) 4809 - 4812 ✓ | Apr. 20, 1974 | 10:52 | 1:30,000 | 0.4 ft. below MLW* | |
| 74 Z(I) 9509 - 9512 ✓ | Apr. 20, 1974 | 10:52 | 1:30,000 | 0.4 ft. below MLW** | |
| 74 E(C) 4830 - 4831 ✓ | Apr. 20, 1974 | 12:39 | 1:30,000 | 0.1 ft. below MLW* | |
| 74 Z(I) 9562 - 9563 ✓ | Apr. 20, 1974 | 12:39 | 1:30,000 | 0.1 ft. below MLW** | |

REMARKS *Compilation/bridging photographs. **Tide coordinated photographs at M.L.W. ***Bridging photographs.

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from the above listed compilation photographs by stereo instrument methods.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The mean low water line was compiled graphically from the tide coordinated MLW infrared photographs.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

| SURVEY NUMBER | DATE(S) | SURVEY COPY USED | SURVEY NUMBER | DATE(S) | SURVEY COPY USED |
|---------------|---------|------------------|---------------|---------|------------------|
| | | | | | |

5. FINAL JUNCTIONS

| NORTH | EAST | SOUTH | WEST |
|----------|-----------|----------|----------|
| TP-00762 | No survey | TP-00770 | TP-00765 |
| REMARKS | | | |

TP-00766

HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION (PREMARKING) FIELD EDIT OPERATION

| OPERATION | NAME | DATE |
|-------------------------------------|--|------------|
| 1. CHIEF OF FIELD PARTY | R. Tibbetts | April 1974 |
| 2. HORIZONTAL CONTROL | RECOVERED BY R. Tibbetts | April 1974 |
| | ESTABLISHED BY R. Tibbetts | April 1974 |
| | PRE-MARKED OR IDENTIFIED BY L. Davis | April 1974 |
| 3. VERTICAL CONTROL | RECOVERED BY None | |
| | ESTABLISHED BY None | |
| | PRE-MARKED OR IDENTIFIED BY None | |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY None | |
| | LOCATED (Field Methods) BY None | |
| | IDENTIFIED BY None | |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION | |
| | <input type="checkbox"/> COMPLETE BY | |
| | <input type="checkbox"/> SPECIFIC NAMES ONLY | |
| | <input checked="" type="checkbox"/> NO INVESTIGATION | |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY | None |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY | N.A. |

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
Paneled

2. VERTICAL CONTROL IDENTIFIED
None

| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
|--------------|----------------------------------|--------------|---------------------|
| 74C(C) 9480 | GROVER, 1917 (Sub. Sta. paneled) | | |

3. PHOTO NUMBERS (Clarification of details)
None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
None

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-------------|--------------|-------------|
| | | | |

5. GEOGRAPHIC NAMES: REPORT NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS
None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)
1 Form 152, 1 Form 266 and 1 Form 269C.

TP-00766
HISTORY OF FIELD OPERATIONS

1. FIELD INSPECTION OPERATION FIELD EDIT OPERATION

| OPERATION | NAME | DATE |
|-------------------------------------|---|------------|
| 1. CHIEF OF FIELD PARTY | R. Tibbetts | July 1977 |
| 2. HORIZONTAL CONTROL | RECOVERED BY | H. V. Hart |
| | ESTABLISHED BY | NONE |
| | PRE-MARKED OR IDENTIFIED BY | NONE |
| 3. VERTICAL CONTROL | RECOVERED BY | NONE |
| | ESTABLISHED BY | NONE |
| | PRE-MARKED OR IDENTIFIED BY | NONE |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY | NONE |
| | LOCATED (Field Methods) BY | NONE |
| | IDENTIFIED BY | NONE |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION | |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY | H. V. Hart |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY | N.A. |

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
None

2. VERTICAL CONTROL IDENTIFIED
None

| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
|--------------|--------------|--------------|---------------------|
| | | | |

3. PHOTO NUMBERS (Clarification of details)
74 E(C) 4810 thru 4813 and 4830 (Black/White Ratios)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
None

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-------------|--------------|-------------|
| | | | |

5. GEOGRAPHIC NAMES: REPORT NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS
New dock facilities at Cataumet, Marina and Independence Yacht Club (Sketches)

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)
1 Paper Field Edit Print
1 Field Edit Report
3 Forms 76-40

TP-00766

HISTORY OF FIELD OPERATIONS.

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION (SUPPLEMENTAL FIELD EDIT)

| OPERATION | NAME | DATE |
|-------------------------------------|--|------------|
| 1. CHIEF OF FIELD PARTY | R. Tibbetts | Sept. 1980 |
| 2. HORIZONTAL CONTROL | RECOVERED BY | None |
| | ESTABLISHED BY | None |
| | PRE-MARKED OR IDENTIFIED BY | None |
| 3. VERTICAL CONTROL | RECOVERED BY | None |
| | ESTABLISHED BY | None |
| | PRE-MARKED OR IDENTIFIED BY | None |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY | None |
| | LOCATED (Field Methods) BY | None |
| | IDENTIFIED BY | None |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION | |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY R. Tibbetts | Sept. 1980 |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY | None |

II. SOURCE DATA

| | |
|--|--|
| 1. HORIZONTAL CONTROL IDENTIFIED None | 2. VERTICAL CONTROL IDENTIFIED None |
|--|--|

| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
|--------------|--------------|--------------|---------------------|
| | | | |

3. PHOTO NUMBERS (Clarification of details)
74 E(C) 4809 thru 4811 (Color Ratios)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-------------|--------------|-------------|
| | | | |

5. GEOGRAPHIC NAMES: REPORT NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS
None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)
 1 Film Field Edit Print
 1 Field Edit Report
 1 Form 76-40
 1 Form 76-52 (Horizontal Field Book)

| I. MANUSCRIPT COPIES | | | DATE MANUSCRIPT FORWARDED | |
|---|---------------|---------------------------------|---------------------------|---------------|
| COMPILATION STAGES | | | MARINE CHARTS | HYDRO SUPPORT |
| DATA COMPILED | DATE | REMARKS | | |
| Compilation complete pending field edit | June 1976 | Class III manuscript SUPERSEDED | July 1976 | June 1976 |
| Field edit applied, compilation complete | May 1978 | Class I manuscript SUPERSEDED | June 1978 | May 1978 |
| 1980 Field edit applied, compilation complete | May 1981 | Class I manuscript SUPERSEDED | None | None |
| Final Review | November 1984 | Final Map | March 1985 | March 1985 |

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

| PAGES | CHART LETTER NUMBER ASSIGNED | DATE FORWARDED | REMARKS |
|-------|------------------------------|----------------|-----------------------|
| 1 | | May 22, 1980 | Landmarks for charts. |
| 2 | | May 22, 1980 | Aids for charts. |
| 1 | | March 1985 | Landmarks |
| 2 | | March 1985 | Aids |

2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

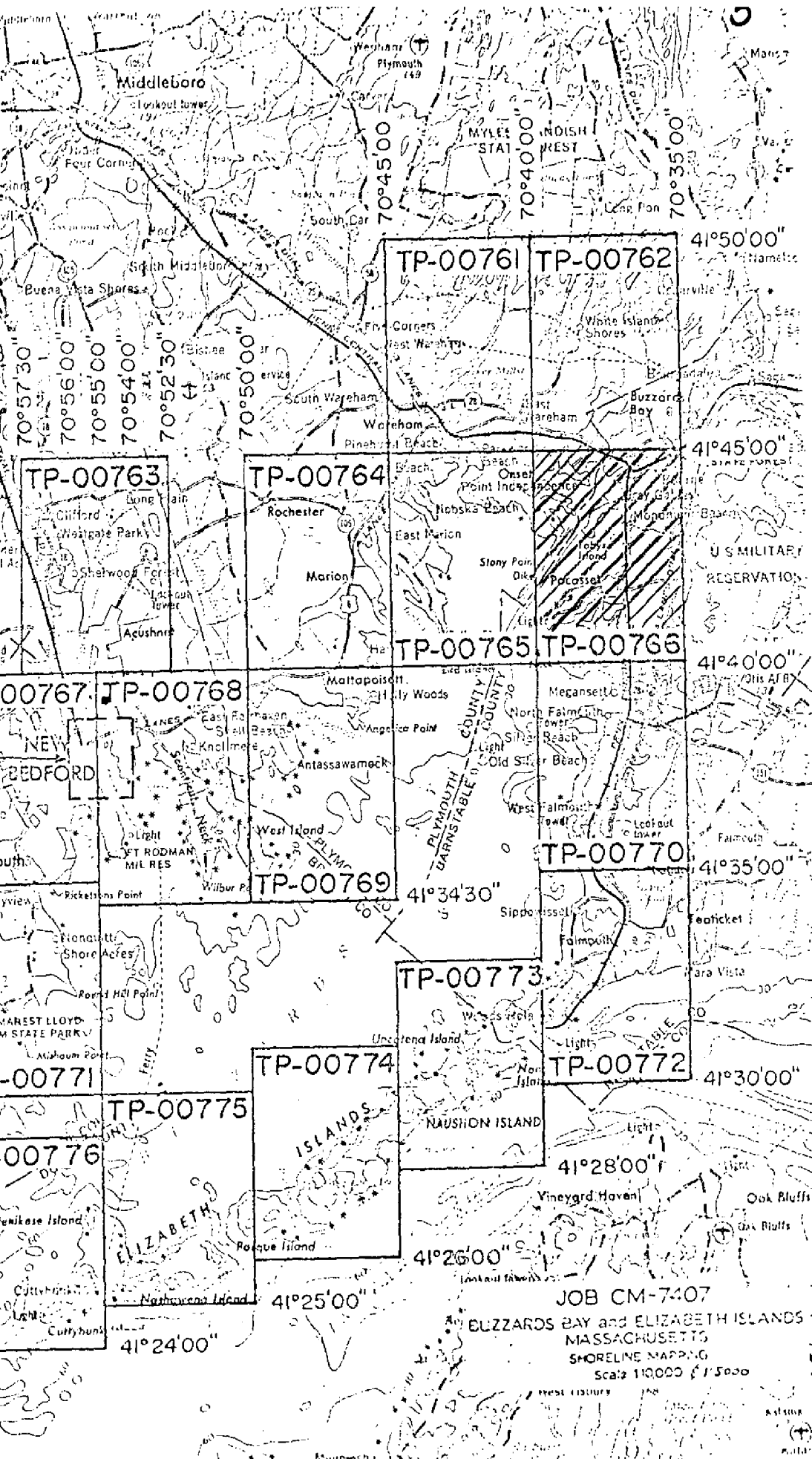
III. FEDERAL RECORDS CENTER DATA

1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
2. CONTROL STATION IDENTIFICATION CARDS; FORM NOS. 352 SUBMITTED BY FIELD PARTIES.
3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
4. DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

| | | | |
|----------------|---------------------------------|--------------------------|---|
| SECOND EDITION | SURVEY NUMBER TP - _____ (2) | JOB NUMBER PH - _____ | <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |
| THIRD EDITION | SURVEY NUMBER TP - _____ (3) | JOB NUMBER PH - _____ | <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |
| FOURTH EDITION | SURVEY NUMBER TP - _____ (4) | JOB NUMBER PH - _____ | <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |

Sheet No. TP-00695
 Sq. Miles 2
 TP-00761 1
 TP-00762 2
 TP-00763 1
 TP-00764 3
 TP-00765 6
 TP-00766 9
 TP-00767 3
 TP-00768 5
 TP-00769 5
 TP-00770 4
 TP-00771 5
 TP-00772 2
 TP-00773 5
 TP-00774 5
 TP-00775 4
 TP-00776 1
TOTAL 63



JOB CM-7407
 BUZZARDS BAY and ELIZABETH ISLANDS
 MASSACHUSETTS
 SHORELINE MAPPING
 Scale 1:10000 (1"=5000')

SOUND
 Revised 11-22-75 2-13-76 RW

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00776

This 1:10,000 scale final shoreline map is one of seventeen maps that comprise project CM-7407, Buzzards Bay, Massachusetts. The project consists of sixteen 1:10,000 scale maps (TP-00761 thru TP-00776) and one 1:5,000 scale inset map (TP-00695).

The purpose of this map was to furnish support for hydrographic activity scheduled in the spring of 1976 and to provide current shoreline data for nautical charts.

This map features a portion of the eastern shoreline in Buzzards Bay from Scraggy Neck to the southern entrance of Cape Cod Canal.

Photo coverage for the project was adequately provided in 1974 with 1:60,000 scale, 1:30,000 scale and 1:15,000 scale color photographs. The 1:60,000 scale photographs were taken with the RC-10 "C" camera for aerotriangulation. The 1:30,000 scale photographs were taken with the RC-8 "E" camera for aerotriangulation and compilation. The 1:15,000 scale photographs were taken with the RC-10 "Z" camera and were used to bridge and compile inset map TP-00695. Supplemental tide coordinated infrared photographs at 1:30,000 scale were taken on black-and-white film at mean low water with the RC-10 "Z" camera. Photo coverage used to produce this map included the 1:30,000 scale compilation photos and the 1:30,000 MLW infrared photos, both taken April 1974.

Field work prior to compilation consisted of the recovery, establishment and identification, by premarking methods, of horizontal control necessary for aerotriangulation. Also, the field party was responsible for assisting in obtaining the tide coordinated aerial photography. This activity was performed April 1974.

Analytic aerotriangulation was adequately provided by the Washington Science Center April 1975. This activity also included ruling the base manuscripts and providing ratio photographs for compilation.

Compilation by office interpretation of the 1:30,000 scale color photographs was performed at the Coastal Mapping Section, Atlantic Marine Center in June 1976. The MLW tide coordinated infrared photographs were ratioed to map scale and were used to graphically delineate the MLW line. Copies of the Class III manuscript and applicable source data were forwarded to the field for edit.

A Class III map print was forwarded to the hydrographer in support of contemporary hydrographic operations. The hydro survey common to this map, H-9712, was field accomplished but is unprocessed and currently in an inactive status.

TP-00776

Field edit was conducted July 1977 and application of this data was accomplished at the original compilation office May 1978. Additional field edit was performed September 1980 and this data was applied May 1981. After the application of the original field edit data was performed, the manuscript was advanced to Class I and copies were forwarded to the Hydrographic Surveys Branch and the Marine Charts Branch. No copies reflecting the supplemental 1980 edit were submitted.

Final review was performed at the Atlantic Marine Center in November 1984. A final Chart Maintenance Print and a Hydrographic Print were prepared and forwarded to the Marine Charts Branch and the Hydrographic Surveys Branch.

The Descriptive Report for this final field edited map contains all pertinent information used to produce this map. The original base manuscript and related data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-00766

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification by premarking methods of the horizontal control necessary for the aerotriangulation of the project.

8

PHOTOGRAMMETRIC PLOT REPORT
JOB CM-7407
Buzzards Bay, Massachusetts
April 1975

21. Area Covered

This project covers the shoreline of Buzzards Bay and the Elizabeth Islands. Included are seventeen T-sheets. Sheets TP-00761 thru TP-00776 are 1:10,000 scale and TP-00695 is 1:5,000 scale.

All sheets have the Massachusetts State Grid (Mainland Zone) intersections plotted.

22. Method

Four strips of color photography were bridged on the Wild STK-1 in order to obtain compilation and pass-point positions and exact scale ratios to be used during compilation.

Strip 1 (1:60,000-scale) was adjusted on five field-identified triangulation stations with twenty-two additional triangulation stations and tie points as checks. Strip 2 (1:60,000-scale) was adjusted on three field-identified triangulation stations and one tie point with fourteen additional triangulation stations and tie points as checks. Strip 3 (1:30,000-scale) was adjusted on five field identified triangulation stations with sixteen additional triangulation stations and tie points as checks. Strip 4 (1:15,000-scale) was adjusted on four office identified triangulation stations with six additional triangulation stations and tie points as checks. All adjustments were performed on the IBM 6600. All sheets were ruled and plotted on the Calcomp.

1:10,000-scale ratios were ordered for the entire project.
1:5,000-scale ratios were also ordered for the area covered by T-sheet TP-00695.

The panel for Nobska Point Lighthouse 1904 could not be held in the adjustments. A distance was not recorded on the Control Station Identification form at the time of the field work, but was furnished by the Norfolk Office at a later date. It is believed an error in this distance is the cause for the point not holding in the strip adjustments.

The center panel of the target for Goosberry Neck 2 (USE) 1934 was not in place at the time of photography. Only the three legs were visible.

Neither one of the two field-identified substitute points for USE 6 1934 could be found on the 1:15,000-scale bridging photography (Strip 4).

All other horizontal control utilized in the adjustments held within National Map Accuracy.

24. Supplemental Data

Vertical control for bridging only was obtained from local USGS quadrangles.

25. Photography

Photography was adequate as to overlap and coverage.

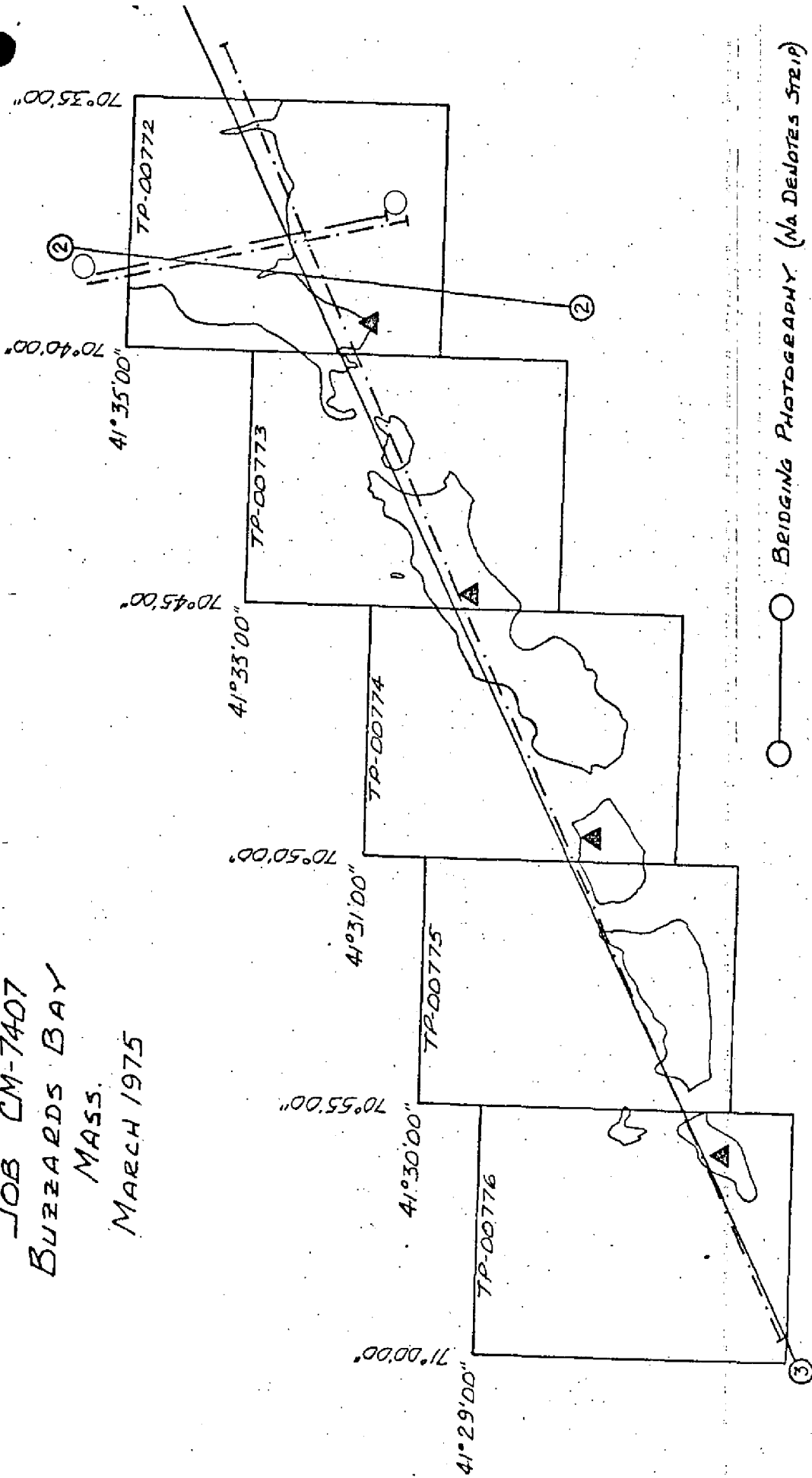
Submitted by:

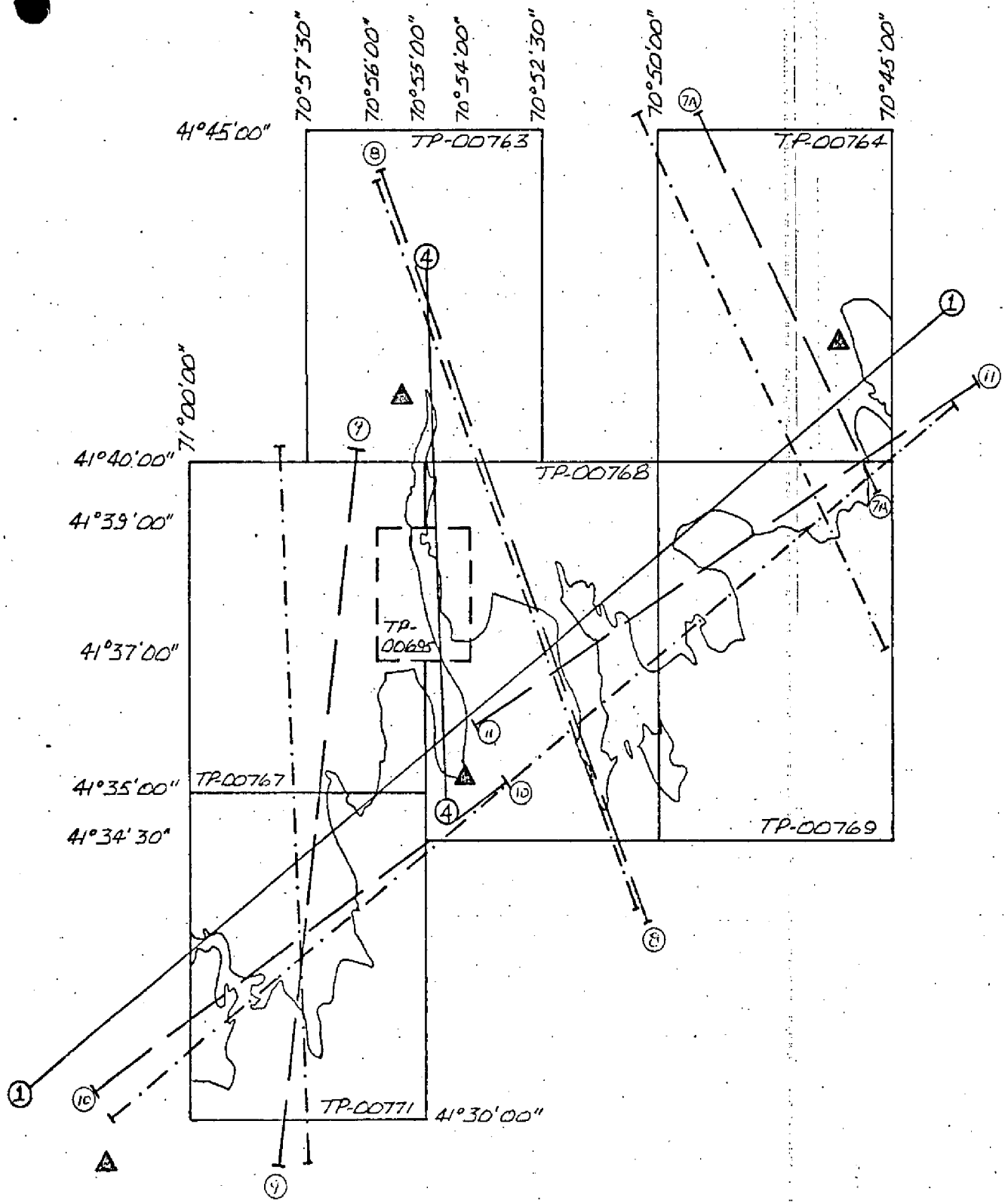
Michael L. McGinley
Michael L. McGinley

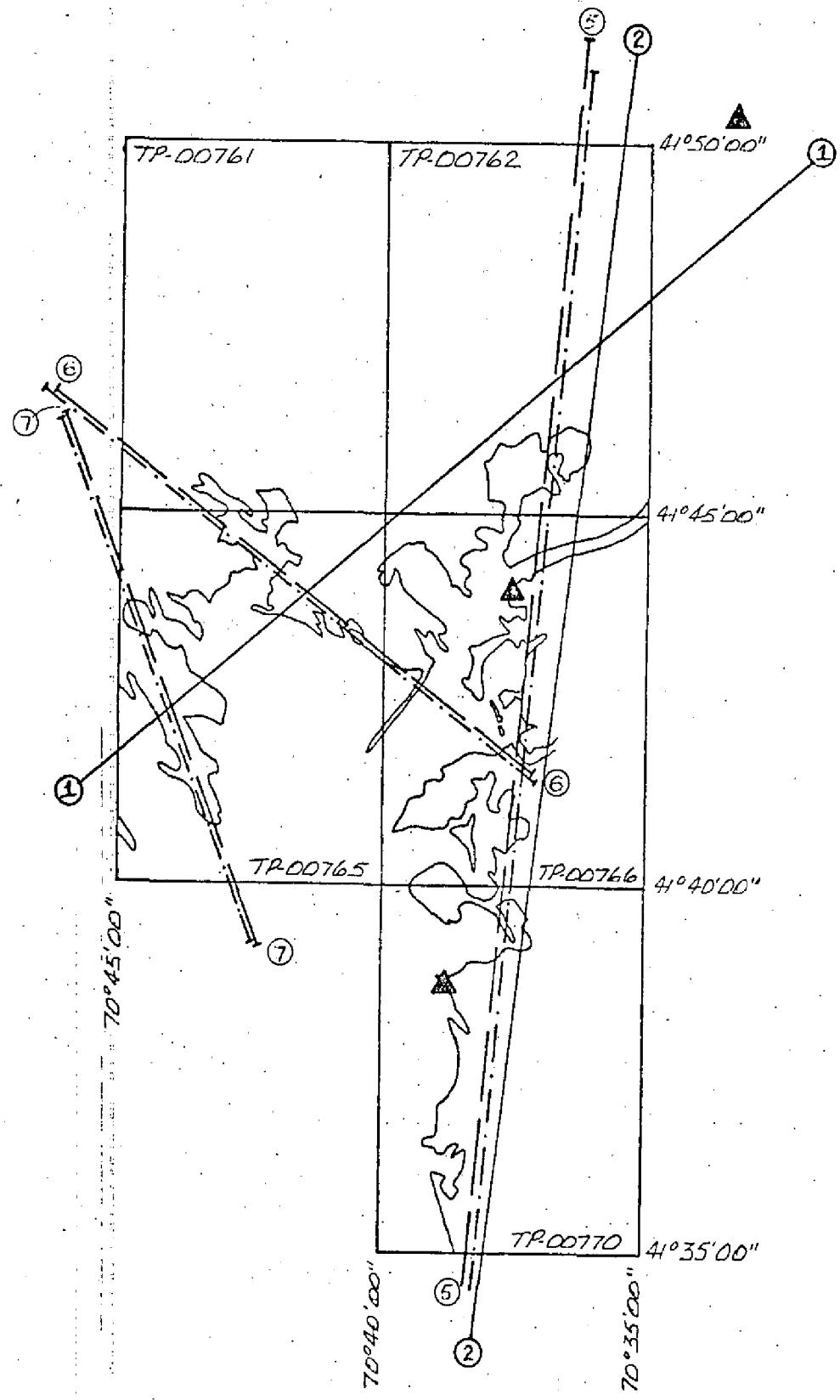
Approved by:

John D. Perrow, Jr.
John D. Perrow, Jr.
Chief, Aerotriangulation Section

JOB CM-7407
 BUZZARDS BAY
 MASS.
 MARCH 1975







COMPILATION REPORT

TP-00766

31 - DELINEATION

Delineation was accomplished using stereo instrument and graphic compilation methods. The Wild B-8 plotter was used to delineate shoreline, alongshore and interior detail based upon office interpretation of the 1:30,000 scale bridging/compilation color photographs.

Mean low water tide coordinated infrared photographs at 1:30,000 scale were ratioed to map scale in order to graphically compile the low water features.

All photographs used to compile this map are listed on NOAA Form 76-36B. The photography was adequate.

32 - CONTROL

Refer to the Photogrammetric Plot Report dated April 1975.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to this project. Drainage was compiled by office interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

The MHW line and alongshore detail were compiled from office interpretation of the 1:30,000 scale compilation photographs as described in item #31.

36 - OFFSHORE DETAILS

Offshore detail was compiled by instrument and graphic methods as described in item #31.

37 - LANDMARKS AND AIDS

Work copies of forms 76-40 were prepared and forwarded to the field editor for verification, location and/or deletion.

38 - CONTROL FOR FUTURE SURVEYS

None.

TP-00766

39 - JUNCTIONS

Refer to the Data Record Form 76-36B, Item 5.

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated April 1975.

46 - COMPARISON WITH EXISTING MAPS

A comparison has been made with the following U.S. Geological Survey Quadrangles: Onset, MA, scale 1:24,000, dated 1967; and Pocasset, MA, scale 1:24,000, dated 1967.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey Charts: 13229, scale 1:40,000, 11th edition, dated January 18, 1975; 13230, scale 1:40,000, 26th edition, dated November 2, 1974; and 13236, scale 1:20,000, 18th edition, dated October 12, 1974.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD


None.

Submitted by,



Fay T. Mauldin
Cartographer
June 1976

Approved,


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

ADDENDUM TO THE COMPILATION REPORT

TP-00766

FIELD EDIT

The original field edit was accomplished July 1977 by a coastal mapping field photo party. During application of this data, it became apparent that additional field data was necessary. A supplemental field edit was performed September 1980 in order to resolve discrepancies and omissions involving the *previous edit*.

GEOGRAPHIC NAMES

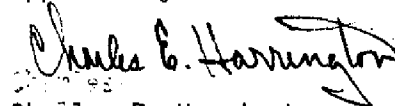
FINAL NAME SHEET

CM-7407 (Buzzards Bay and Elizabeth Islands, Massachusetts)

TP-00766

| | |
|----------------------------|--|
| Agawam Point | Monument Beach (locality) |
| Back River | Mooring Basin |
| Barlows Landing | Muddy Cove |
| Bass Cove | Northwest Cove |
| Bass Creek | Onset |
| Bassets Island | Onset Bay |
| Bay Colony (RR) | Onset Island |
| Bennets Neck | Patuisset |
| Bourne | Peters Neck |
| Broad Cove | Phinneys Harbor |
| Burgess Point | Phinneys Point |
| Butler Cove | Pleasant Harbor |
| Buzzards Bay | Pocasset |
| Buzzards Bay (locality) | Pocasset Harbor |
| Cape Cod Canal | Pocasset River |
| Cataumet | Point Independence (locality) |
| Cataumet Marina (cultural) | Point Independence Yacht Club (cultural) |
| Cedar Island Point | Red Brook |
| Codman Point | Red Brook Harbor |
| Cohasset Narrows | Red Brook Pond |
| East River | Rocky Point |
| Eel Pond | Scraggy Neck |
| Gray Gables (locality) | Shell Point |
| Great Neck | Shop Pond |
| Handy Point | Sias Point |
| Hen Cove | Stony Point |
| Hog Island | Stony Point Dike |
| Hog Neck | Taylor's Point |
| Hospital Cove | The Anchorage |
| Jacobs Neck | The Widows Cove |
| Long Neck | Tobys Island |
| Long Point | Wickets Island |
| Mashnee Island | Wings Cove |
| Mill Pond | Wings Neck |

Approved by:



Charles E. Harrington
 Chief Geographer
 Nautical Charting Division

FIELD EDIT REPORT

Job: CM-7407

Buzzards Bay, Massachusetts

TP-00766 Pocasset Harbor

July 1977

This sheet was field edited during the 1977 summer season.

52. Adequacy of Compilation - The compilation on this sheet appears good with only minor additions, deletions and corrections needed to insure the adequacy of charting compilation.

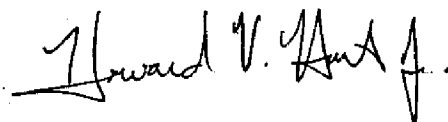
54. Recommendations - None.

56. Shoreline and Along Shore Features - All changes, additions, and deletions are indicated on the Field Edit Ozalid and photo number are given where necessary for cross reference. The piles in Onset Bay were not found and were probably mooring buoys as in the case of the compiled piles in Red Brook Harbor. The dolphins in Cape Cod Canal south of the Rail Road Bridge were indicated as rocks on the field edit sheet have been destroyed by the ice of January 1977 and replacements are planned however not before the completion of project. An extension to the dock facilities in Red Brook Harbor at Catument Marina should be added as specified by the attached supplement detailing the dimensions. A dock was added to the West end of Independence Yacht Club in Onset Bay. See supplement attachment layout details. Rock information was noted on photos 74E4812, 74E4811, 74E4830, 74E4810 and was not cross referenced to field edit ozalid due to the extremely rocky coastline.

57. Offshore Features - Eustis Rock is not visible at low water and must be located by the hydrographers. A black and red buoy marks the rock.

58. Landmarks and Aids - Forms 76-40 are submitted for all fixed aids to navigation. Due to the severe winter of 1976 ice in the bay razed several of the Hog Island Channel Lights. Lights number 5 and 6 were replaced with buoys by the Coast Guard. Light number 7 was replaced in its original position and is permanent. Cleveland Ledge Channel Rear Range Light was located by intersection and checks with the plotted photogrammetric position. Forms 76-40 are submitted for all landmarks. The Nye's Neck Water Tank 1910 is no longer a water tank and has been converted to a private lookout tower.

59. General Statement - All field edit notes have been made in violet ink on the field edit sheet and the photographs.



Howard V. Hart Jr.
Surveying Technician

FIELD EDIT REPORT
JOB CM-7407; TP-00766
SUPPLEMENTAL

Sept. 1980

51. METHODS

This report is submitted for the field edit of rocks which were omitted by previous field edit and hydrographic surveys.

The field edit of rocks was performed according to instructions attached to the field edit sheet. Methods used were as prescribed in the National Ocean Survey Operations Manual. Where possible and accurate, a line was drawn offshore to indicate a foul limit.

The field edit of rocks and descriptive notes appear on the field edit sheet and the color photography.

One aid to navigation previously omitted by field edit has been verified, the appropriate NOAA form 76-40 is included.

52. ADEQUACY OF COMPIATION

Adequate pending completion of rocks.

53. MAP ACCURACY

No test required.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

Not required.

Approved & Forwarded

Robert S. Tibbetts
Robert S. Tibbetts
Chief, Photo Party 62

Submitted

Clifton S. Middleton Jr.
Clifton S. Middleton JR.
Surveying Technician

REVIEW REPORT TP-00766
SHORELINE

61. GENERAL STATEMENT

Final review for this final field edited map was accomplished at the Atlantic Marine Center in November 1984. For a schedule of office and field operations, refer to the Summary included in this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

None.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following 1:24,000 scale U.S. Geological Survey quads: Onset, MA, dated 1967; and Pocasset, MA, dated 1967.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Contemporary hydrographic activity common to this map was assigned as hydro survey H-9712. The survey was physically accomplished; however, the field data is currently unprocessed and the completion date is unscheduled.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: 13236, 22nd edition, 1:20,000 scale, dated March 10, 1984; 13229, 20th edition, 1:40,000 scale, dated March 24, 1984; and 13230, 34th edition, 1:40,000 scale, dated March 10, 1984.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by,

Jerry L. Hancock
Jerry L. Hancock
Final Reviewer

Approved for forwarding,

Billy H. Barnes

Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,

Gregory J. Brown
Chief, Photogrammetric Section, Rockville

Ronald K. Brewer
Chief, Photogrammetry Branch,
Rockville

Replaces C&GS Form 567.

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE
FOR CHARTS

NONFLOATING AIDS

ORIGINATING ACTIVITY
 HYDROGRAPHIC PARTY
 GEODETIC PARTY
 PHOTO FIELD PARTY
 COMPILATION ACTIVITY
 FINAL REVIEWER
 QUALITY CONTROL & REVIEW GRP.
 COAST PILOT BRANCH
(See reverse for responsible personnel)

REPORTING UNIT (Field Party, Ship or Office)
 Coastal Mapping Div.
 AMC Norfolk, VA

STATE
 Massachusetts

LOCALITY
 Buzzards Bay and Elizabeth Islands

DATE
 Feb 28, 78

The following objects HAVE HAVE NOT been inspected from seaward to determine their value as landmarks.

| CHARTING NAME | DESCRIPTION <i>(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)</i> | DATUM | | POSITION | | METHOD AND DATE OF LOCATION <i>(See instructions on reverse side)</i> | | CHARTS AFFECTED |
|---------------|---|------------|---------------|-------------------------|--------------------------|--|--------------------------|-------------------------|
| | | JOB NUMBER | SURVEY NUMBER | LATITUDE D.M. Meters | LONGITUDE D.P. Meters | OFFICE | FIELD | |
| | | | | | | | | |
| LIGHT | Hog Island Channel Light #7 | 41 42 | 70 39 | 28.69 | 22.40 | 74E(C)4811 April 20, 1974 | F-V-VIS July 20, 1977 | 114SC 13230 13236 |
| * LIGHT | Hog Island Channel Light #8 | 41 42 | 70 39 | 26.0 | 13.0 | " | F-V-VIS July 20, 1977 | 114SC 13230 13236 |
| LIGHT | Hog Island Channel Light #9 | 41 42 | 70 38 | 58.93 | 53.99 | " | F-V-VIS July 20, 1977 | 114SC 13230 13236 |
| LIGHT | Hog Island Channel Light #11 | 41 43 | 70 38 | 856 | 630 | 74E(C)4812 Apr 20, 1974 | F-V-VIS July 20, 1977 | 114SC 13230 13236 |
| LIGHT | Hog Island Channel Light #12 | 41 43 | 70 38 | 24.70 | 1229 | " | F-V-VIS July 20, 1977 | 114SC 13230 13236 |
| LIGHT | Hog Island Channel Light #18 | 41 44 | 70 37 | 362 | 554 | " | F-V-VIS July 20, 1977 | 114SC 13230 13236 |
| LIGHT | Hog Island Channel Light #20 | 41 44 | 70 37 | 594 | 240 | " | F-V-VIS July 20, 1977 | " |
| LIGHT | Phinney's Harbor Channel Light #9 | 41 42 | 70 37 | 489 | 58.48 | 74E(C)4831 Apr 20, 1974 | F-V-VIS July 20, 1977 | " |
| LIGHT | Cleveland Ledge Channel Range Rear Light | 41 43 | 70 39 | 90 | 1288 | 74E(C)4329 Apr 20, 1974 | F-V-VIS July 20, 1977 | " |
| | * This position is from Mr. Kelly of the 1st District Rebuilt due to ice conditions winter 1977-78 | | | | | USCG Boston Area. Position acquired on May 4, 1978 | | 1 of 3 |

Replaces C&GS Form 567.

NONFLOATING AIDS

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
FOR CHARTS

ORIGINATING ACTIVITY

HYDROGRAPHIC PARTY
 GEODETIC PARTY
 PHOTO FIELD PARTY
 COMPILATION ACTIVITY
 FINAL REVIEWER
 QUALITY CONTROL & REVIEW GRP.
 COAST PILOT BRANCH
(See reverse for responsible personnel)

LOCALITY
Buzzards Bay and Elizabeth Islands

DATE
Feb 28, 78

REPORTING UNIT (Field Party, Ship or Office)
Coastal Mapping Div., ANM Norfolk, VA

STATE
Massachusetts

DATUM
N.A. 1927

OPR PROJECT NO. 503

JOB NUMBER CM-7407

SURVEY NUMBER TP-00766

METHOD AND DATE OF LOCATION
(See instructions on reverse side)

OFFICE
Apr 20, 1974
74E(C)4813

FIELD
Field Editor
Ignored *

CHARTS AFFECTED
114SC
13230
13236

| CHARTING NAME | DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station name, where applicable, in parentheses) | LATITUDE | | LONGITUDE | | D.P. Meters |
|----------------|---|---------------|---------|-------------|---------------|-------------|
| | | D.M. Meters | ° / ' " | D.P. Meters | ° / ' " | |
| * DAYBEACON | See 1980 Field Edit Buttermilk Bay Approach Daybeacon 9 | 33.35 1029 | 41 44 | 70 37 | 44.83 1036 | |
| * LIGHT | This day mark was not verified or otherwise reported by the field editor. However, a phone call to Mr. Kelly, of the First District, U.S. Coast Guard verified its position and existence and our compilation office position. March 6, 1978. | | | | | |
| ** LIGHT | Hog Island Channel Light #5 | 56.6 1746 | 41 41 | 70 39 | 52.2 1207 | |
| ** LIGHT | Hog Island Channel Light #6 | 52.4 1617 | 41 41 | 70 39 | 44.2 1022 | |
| **These | positions are from Mr. Kelly of 1st District USCG, Boston | | | | | |
| Area. | They are rebuilt due to ice conditions winter 1976-77. | | | | | |
| Position | acquired on May 4, 1978. | | | | | |
| | | | | | | 2 of 3 |

| RESPONSIBLE PERSONNEL | | NAME | ORIGINATOR |
|---|--|--|---|
| TYPE OF ACTION | | | <input checked="" type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify) |
| OBJECTS INSPECTED FROM SEAWARD | | | |
| POSITIONS DETERMINED AND/OR VERIFIED | | | FIELD ACTIVITY REPRESENTATIVE |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES | | | OFFICE ACTIVITY REPRESENTATIVE |
| INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64.) | | | |
| OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75 | | FIELD (Cont'd) B. Photogrammetric field positions* require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982 | <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE |
| FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75 | | II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 | |
| *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. | | III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 | **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods. |

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

ORIGINATING ACTIVITY
 HYDROGRAPHIC PARTY
 GEODETIC PARTY
 PHOTO FIELD PARTY
 COMPILATION ACTIVITY
 FINAL REVIEWER
 QUALITY CONTROL & REVIEW GRP.
 COAST PILOT BRANCH
(See reverse for responsible personnel)

REPORTING UNIT (Field Party, Ship or Office)
 Coastal Mapping Unit, AMC, Norfolk, VA
STATE
 Massachusetts
LOCALITY
 Buzzards Bay and Elizabeth Islands
DATE
 Feb. 1978

The following objects HAVE BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.
 OPR PROJECT NO. 503
 JOB NUMBER CM-7407
 SURVEY NUMBER TP-00766
 DATUM N.A. 1927

| CHARTING NAME | DESCRIPTION <i>(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)</i> | POSITION | | LONGITUDE // D.P. Meters | METHOD AND DATE OF LOCATION <i>(See instructions on reverse side)</i> | | CHARTS AFFECTED |
|---------------|---|-------------------------|------------------|--------------------------------|--|-------------------------------|-------------------------|
| | | LATITUDE D.M. Meters | LONGITUDE ° / | | OFFICE | FIELD | |
| ** TOWER | Abandoned Light House (Wings Neck Lighthouse, 1904) (private residence now) | 41 40 | 70 39 | 42.260 977.4 | April 20, 1974 74 E(C) 4810 | Triang. Rec. July 27, 1977 | 114SC 13230 13236 |
| TANK | Monument Beach Tank HT = 244 (344) ft. | 41 43 | 70 36 | 22.4 519 | April 20, 1974 74 E(C) 4311 | F-V-Vis. July 27, 1977 | " |
| TANK | Tank East of Redbrook Harbor HT = 244 (305) ft. | 41 40 | 70 36 | 37.0 856 | April 20, 1974 74 E(C) 4837 | F-V-Vis. July 27, 1977 | " |
| CUPOLA | (N.E.) | 41 44 | 70 37 | 28.5 658 | April 20, 1974 74 E(C) 4812 | F-V-Vis. July 27, 1977 | " |
| CUPOLA | (S.W.) | 41 44 | 70 37 | 30.1 696 | April 20, 1974 74 E(C) 4812 | F-V-Vis. July 27, 1977 | " |
| TOWER | (South) Railroad Bridge | 41 44 | 70 36 | 49.4 1141 | April 20, 1974 74 E(C) 4813 | F-V-Vis. July 27, 1977 | " |
| TOWER | (North) Railroad Bridge | 41 44 | 70 36 | 52.6 1215 | " | F-V-Vis. July 27, 1977 | " |
| TOWER | Water Tower | 41 44 | 70 37 | 21.3 493 | " | Not edited | " |
| ** | Another tower (steel structure) approx. 160 ft. N.W. of the abandoned lighthouse is the structure for the radar unit which is considered the control tower; approx. 20 ft. west of the radar unit is the traffic light structure. | | | | | | 3 of 3 |

| RESPONSIBLE PERSONNEL | |
|--|---|
| TYPE OF ACTION | NAME |
| OBJECTS INSPECTED FROM SEAWARD | H. Hart |
| POSITIONS DETERMINED AND/OR VERIFIED | H. Hart |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES | C. B Hood |
| INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' | |
| (Consult Photogrammetric Instructions No. 64.) | |
| <p>OFFICE</p> <p>1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75</p> | <p>FIELD (Cont'd)</p> <p>B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982</p> |
| <p>FIELD</p> <p>I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant</p> <p>A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75</p> <p>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</p> | <p>II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75</p> <p>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75</p> <p>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</p> |

