

TP-00165

TP-00165

FORM C&GS-504 U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	
<h2>DESCRIPTIVE REPORT</h2>	
Type of Survey <u>Shoreline</u>	
Field No. <u>PH-7004</u>	Office No. <u>TP-00165</u>
Field Edited Map	
LOCALITY	
State <u>Massachusetts</u>	
General locality <u>Race Point To Chatham</u>	
Locality <u>Provincetown</u>	
<u>1970-71</u>	
CHIEF OF PARTY Alfred C. Holmes, Director, AMC	
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

SURVEY TP. 00

- ORIGINAL
- RESURVEY
- REVISED

MAP EDITION NO.

MAP CLASS

JOB PH. 7004

PHOTOGRAMMETRIC OFFICE

Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE

Melvin J. Umbach, CDR, NOAA

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

JOB PH. _____

- ORIGINAL
- RESURVEY
- REVISED

MAP CLASS _____

SURVEY DATES:

19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE

2. FIELD

December 3, 1970
March 5, 1971

August 12, 1970

II. DATUMS

1. HORIZONTAL:

1927 NORTH AMERICAN

OTHER (Specify)

2. VERTICAL:

- MEAN HIGH-WATER
- MEAN LOW-WATER
- MEAN LOWER LOW-WATER
- MEAN SEA LEVEL

OTHER (Specify)

3. MAP PROJECTION

Polyconic

4. GRID(S)

STATE MASS

ZONE Mainland

5. SCALE
1:10,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS	NAME	DATE
1. AEROTRIANGULATION METHOD: Stereoplanigraph	J. D. Perrow, Jr.	Feb. 1971
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	P. Dempsey	Mar. 5, 71
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:7,500 & 1:10,000	R. White L. Neterer, Jr.	Mar. 22/71 Mar. 22/71
4. MANUSCRIPT DELINEATION METHOD: Wild B-8 SCALE: 1:10,000	R. White B. Wilson Inapplicable	Mar. 26/71 Apr. 12/71
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	R. White B. Wilson	Mar. 26/71 Apr. 14/71
6. APPLICATION OF FIELD EDIT DATA	B. Wilson T. Bulfer	Apr. 14/71 Nov. 17/71
7. COMPILATION SECTION REVIEW	R. White	Mar. 7/72
8. FINAL REVIEW	S. Kumer	July 27/73
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	C. Bishop	July, 1973
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	Blaekerwalker	MAR. 1975
11. MAP REGISTERED - COASTAL SURVEY SECTION	R. CATR	JUL 1975

COMPILATION SOURCES TP-00165

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR <input checked="" type="checkbox"/> (P) PANCHROMATIC (I) INFRARED		ZONE	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				Atlantic	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
70-L-(c)-8232 thru 8236	Sept.12/70	11:01	1:20,000	4.6 above MLW	
70-L-(c)-8257 thru 8258	Sept.12/70	11:25	1:20,000	3.6 above MLW	
70-L-(c)-8262 thru 8264	Sept.12/70	11:32	1:20,000	3.3 above MLW	
70-L-(c)-8268 thru 8271	Sept.12/70	11:37	1:20,000	3.7 above MLW	
REMARKS					

2. SOURCE OF MEAN HIGH-WATER LINE:

Air photo compilation
Date of photography: Sept. 12, 1970

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

The mean low water line was compiled from office interpretation of photographs listed in (1) above.

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
None	TP-00166	None	None

REMARKS

HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION ** (Field Inspection operation)* FIELD EDIT OPERATION TP-00165

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Wilson	Sept. 1970
2. HORIZONTAL CONTROL <i>*</i> RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	E. Hartford	Sept. 9, 1970
	None	
	E. Hartford	Sept. 9, 1970
3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	Inapplicable	
	Inapplicable	
	Inapplicable	
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	E. W. Hartford	Sept. 1971
	None	
	E. W. Hartford	Sept. 1971
5. GEOGRAPHIC NAMES INVESTIGATION TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY	E. W. Hartford	Aug. Sept. '71
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED	2. VERTICAL CONTROL IDENTIFIED
	Inapplicable

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70L(c)8232	Long Point Inner Range Beacon 1, 1933		
70L(c)8233	Telegraph Hill, 1902 <i>*</i>		
70L(c)8235	Ocean View R.M. 4, 1959		
70L(c)8239	Ocean View R.M. 4, 1959		

3. PHOTO NUMBERS (Clarification of details)
70-L-8233, 8235, 8257, 8258, and 8271.

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
22 landmarks, 4 aids on above photos.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
70-L-8233	Long Point Lt. Ho.	70-L-8233	Long Pt, Outer Range Beacon 2, 1933
70-L-8233	Wood End Lt. Ho.	70-L-8235	Observation Tower 1971
70-L-8235	Race Point Lt. Ho.	70-L-8235	Observation Tower 1971
70-L-8258	Aero Beacon	70-L-8233	Pole, 1971
70-L-8233	Long Pt, Inner Range Beacon 1	70-L-8257	Cupola, 1971
70-L-8233	Long Pt, Outer Range Beacon 1	(CONTINUE ON BACK PAGE)	
70-L-8233	Long Pt, Inner Range Beacon 2		

5. GEOGRAPHIC NAMES: REPORT NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS
One Drawing #147 Dr. 29 (Breakwater)

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

23 Forms 526, 26 Forms 152, 6 Forms 76-40,
1 Report in duplicate

II. 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED (cont'd)

<u>PHOTO NO.</u>	<u>OBJECT NAME</u>
70-L-8233	Provincetown Standpipe, 1933
70-L-8233	Provincetown, Town Hall, Spire 1887
70-L-8233	Church Spire, 1971 (Universalist)
70-L-8257	Observation Tower, 1971
70-L-8233	Provincetown, Center Church, Spire, 1933
70-L-8235	Provincetown, Course D, Front Range Beacon 1947
70-L-8235	Provincetown, Course D, Rear Range Beacon 1947
70-L-8235	Provincetown, Northwest Range, Front Beacon 1906
70-L-8235	Provincetown, Northwest Range, Rear Beacon, 1906
70-L-8233	Provincetown, Southeast Range Front Beacon, 1906
70-L-8233	Provincetown, Southeast Range Rear Beacon 1906
70-L-8233	Long Point, Inner Range Beacon, 3, 1933
70-L-8233	Long Point, Outer Range Beacon 3, 1933
70-L-8233	Pilgrim Monument 1909

RECORD OF SURVEY USE TP-00165

5

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation Complete Pending Field Edit	March, 1971	Class III		5/7/71
Field Edit Applied	Nov. 1971	Class I Manuscript		
Final Review	July 1973	Minor Corrections (CHART MAINT. PRINT)	10/1/73	
Final Review	Aug 1974	CHART MAINT. PRINT * See below	3/16/75	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
4		8/1/73	Landmarks for charting
1		"	Aid to navigation
1		"	Landmarks to be deleted
1		"	Aeronautical Chart Branch

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

- BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
- CONTROL STATION IDENTIFICATION CARDS; FORM NOS 567 SUBMITTED BY FIELD PARTIES.
- 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: MAR. 10, 1975

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

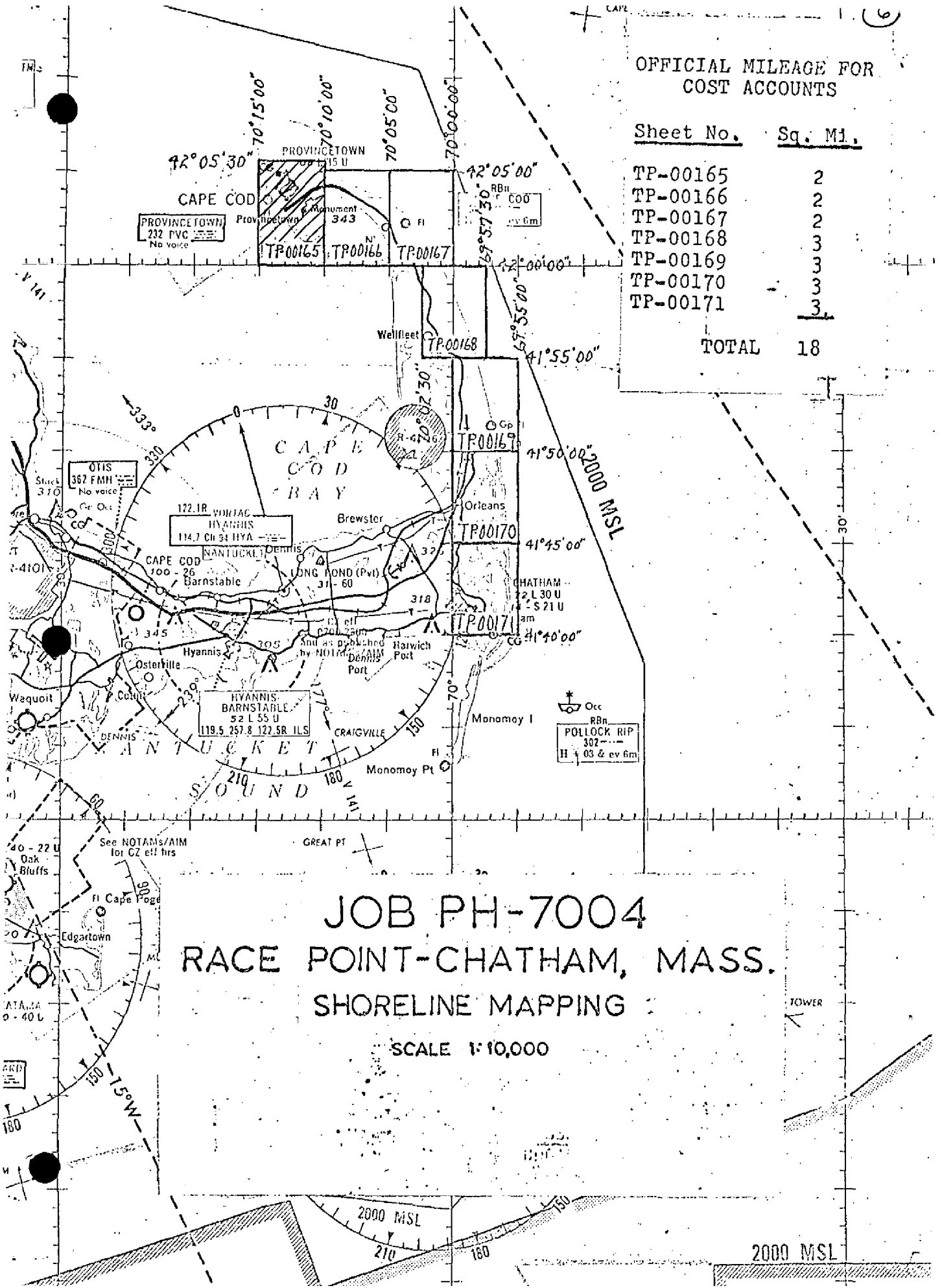
SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL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

OFFICIAL MILEAGE FOR
COST ACCOUNTS

Sheet No. Sq. Mi.

TP-00165	2
TP-00166	2
TP-00167	2
TP-00168	2
TP-00169	2
TP-00170	2
TP-00171	2

TOTAL 18



JOB PH-7004
RACE POINT-CHATHAM, MASS.
SHORELINE MAPPING

SCALE 1:10,000

2000 MSL

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS TP-00165 THROUGH TP-00171

These 1:10,000 scale shoreline manuscripts comprise Project PH-7004, Cape Cod, Massachusetts. The shoreline on this project is mostly sandy beach along the Atlantic Ocean. The position of the mean high water line, the mean low water line, shoals close to shore and channel into Nauset Harbor are subject to continuous change. The job index in the lower left corner of each sheet shows the location of each map in the project.

The only field work preceding compilation was the identification of horizontal control necessary for bridging.

The C-8 Stereoplanigraph was used for bridging to provide control for compilation, using 1:15,000 and 1:20,000 scale color photography taken on September 12, 1970. Compilation was by Wild B-8 Plotter in the spring of 1971. Stable base copies of the map and ratio color prints of the photographs were furnished for hydro support.

Field edit was accomplished by an experienced photogrammetrist ~~in the summer of 1972 and~~ in the fall of 1972.

Final review was done at the Atlantic Marine Center in July and August, 1973.

A cronaflex positive and a negative of the final reviewed manuscript were forwarded for record and registry.

FIELD INSPECTION

TP-00165

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

Photogrammetric Plot Report
Race Point - Chatham, Massachusetts
Job PH-7004
February 1971

21. Area Covered

The project covers part of Cape Cod, Massachusetts, from Race Point to Chatham. Included in the area are sheets TP-00165 thru TP-00171.

22. Method

Five bridges were run on the C-8 Stereoplanigraph to provide control for compilation, and ratio points for the offshore photography. All strips were adjusted on the IBM 1620. Strip # 1 (70-L(C)-8200 thru 8214) was adjusted on four triangulation stations with companion points, and four additional triangulation stations as checks. This adjustment did not give the best results, since it did not hold the two central points by approximately seven feet. However, the strip was balanced and other control points proved that the answers were the best that could be expected with a number of weak alongshore models. Strip # 2 (70-L(C)-8221 thru 8228) was adjusted on four triangulation stations with three additional stations and six tie points as checks. Strip # 3 (70-L(C)-8238 thru 8249) was adjusted on four triangulation stations with five stations and ten tie points as checks. Strip # 4 (70-L(C)-8232 thru 8236) was adjusted on five triangulation stations with four companion points and seven tie points as checks. Strip # 5 (70-L(C)-8276 thru 8281) was adjusted on five triangulation stations with two stations and eight tie points as checks. All triangulation stations, pass points and ratio points were prepared and plotted on the map manuscripts. Vertical adjustments of these strips are only approximate and should not be relied on for vertical control.

23. Adequacy of Control

All control was adequate and complied with project instructions. All stations held within National Map Accuracy.

24. Supplemental Data

Local GS quads were used to provide vertical elevations for adjustments.

25. Photography

All photography was adequate as to overlap, definition and quality. Coverage by individual strips could have been changed to provide more land areas in the models.

Submitted by:

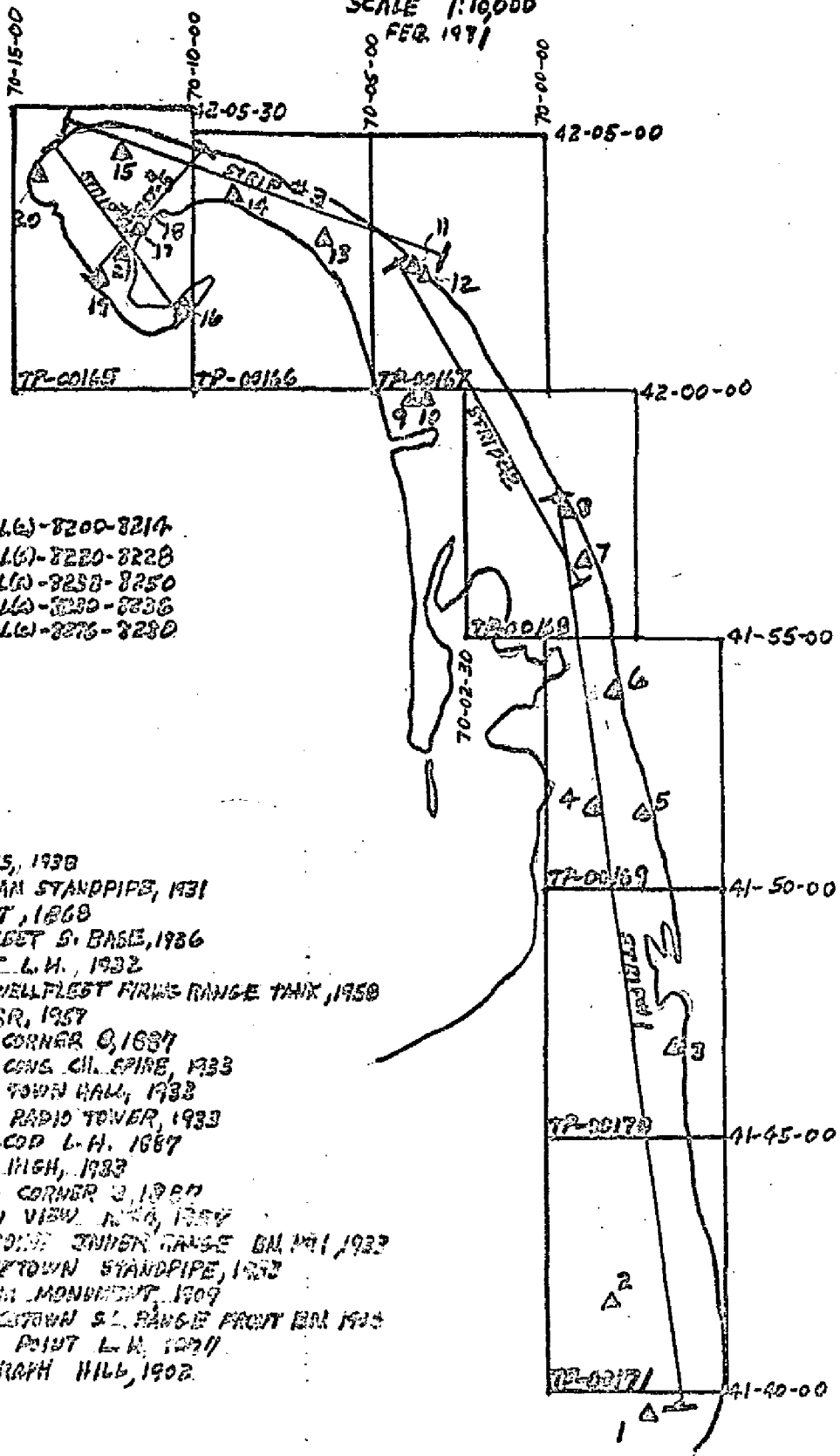
John D. Perrow Jr.
John D. Perrow, Jr.

Approved by:

Henry P. Eichert
Henry P. Eichert
Chief, Aerotriangulation Section

PH-7004 RACE POINT - CHATHAM, MASS.

SCALE 1:10,000
FEB. 1971



- STRIP 01 70-16)-8200-8214
- STRIP 02 70-16)-8220-8228
- STRIP 03 70-16)-8258-8250
- STRIP 04 70-16)-8230-8236
- STRIP 05 70-16)-8276-8280

1. MORRIS, 1930
2. CHATHAM STANDPIPE, 1931
3. PECKET, 1868
4. WELLFLEET S. BASIN, 1936
5. NAUSET L.H., 1932
6. CAMP WELLFLEET FIRE RANGE TANK, 1958
7. FRAZIER, 1957
8. TRURO CORNER C, 1887
9. TRURO CONS. CH. SPIRE, 1933
10. TRURO TOWN HALL, 1933
11. SOUTH RADIO TOWER, 1933
12. CAPE COD L.H. 1887
13. HEAD INGH, 1933
14. TRURO CORNER B, 1887
15. OCEAN VIEW L.H., 1937
16. LONG POINT JUNIOR RANGE BAL NO. 1, 1932
17. PROVINCETOWN STANDPIPE, 1932
18. PUGMILL MONUMENT, 1909
19. PROVINCETOWN S.L. RANGE FRONT BAL 1935
20. RACE POINT L.H. 1927
21. TELEGRAPH HILL, 1902

DESCRIPTIVE REPORT CONTROL RECORD

MAP T-P-00165 PROJECT NO. PH-7004 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 304.8006 meters)	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 304.8006 meters)
				FORWARD	(BACK)
LONG POINT, INNER RANGE BEA- CON 1, 1933	G.P. Vol. 1 203	N.A. 1927	42° 01' 52.964 "	1634.1	(217.1)
TELEGRAPH HILL, 1902	" 341	"	70° 10' 15.143 "	348.3	(1031.9)
OCEAN VIEW R.M. 4, 1959	" 104	"	42° 02' 30.672 "	946.3	(904.9)
PILGRIM MONUMENT, 1909	" 200	"	70° 11' 47.536 "	1093.3	(286.7)
RACE POINT LIGHTHOUSE, 1877	" 155	"	42° 04' 23.8837 "	736.9	(1114.3)
WOOD END LIGHTHOUSE, 1877	" 129	"	70° 12' 28.2228 "	648.8	(730.5)
PROVINCETOWN, COURSE D, REAR RANGE BEACON, 1947	" 512	"	42° 03' 07.574 "	233.7	(1617.5)
PROVINCETOWN, COURSE D, FRONT RANGE BEACON, 1947	" 512	"	70° 11' 20.987 "	482.6	(897.2)
PROVINCETOWN, NORTH WEST RANGE, FRONT BEACON, 1906	" 204	"	42° 03' 43.966 "	1356.5	(494.7)
PROVINCETOWN, NORTHWEST RANGE, REAR BEACON, 1906	" 204	"	70° 14' 37.034 "	851.5	(528.0)
PROVINCETOWN, SOUTH EAST RANGE, FRONT BEACON, 1906	" 204	"	42° 01' 16.022 "	494.3	(1356.9)
PROVINCETOWN, SOUTH EAST RANGE, REAR BEACON, 1906	" 204	"	70° 11' 38.498 "	885.8	(494.6)
PROVINCETOWN, SOUTH EAST RANGE, REAR BEACON, 1906	" 204	"	42° 03' 34.316 "	1058.8	(792.4)
PROVINCETOWN, SOUTH EAST RANGE, REAR BEACON, 1906	" 204	"	70° 13' 18.934 "	435.4	(944.2)
PROVINCETOWN, SOUTH EAST RANGE, REAR BEACON, 1906	" 204	"	42° 03' 20.032 "	618.1	(1233.1)
PROVINCETOWN, SOUTH EAST RANGE, REAR BEACON, 1906	" 204	"	70° 13' 35.737 "	821.8	(557.9)
PROVINCETOWN, SOUTH EAST RANGE, REAR BEACON, 1906	" 204	"	42° 02' 54.514 "	1682.0	(169.2)
PROVINCETOWN, SOUTH EAST RANGE, REAR BEACON, 1906	" 204	"	70° 13' 12.046 "	277.0	(1102.8)
PROVINCETOWN, SOUTH EAST RANGE, REAR BEACON, 1906	" 204	"	42° 03' 18.95 "	584.7	(1266.5)
PROVINCETOWN, SOUTH EAST RANGE, REAR BEACON, 1906	" 204	"	70° 12' 43.30 "	995.7	(384.0)
PROVINCETOWN, SOUTH EAST RANGE, REAR BEACON, 1906	" 204	"	42° 01' 55.995 "	1727.6	(123.6)
PROVINCETOWN, SOUTH EAST RANGE, REAR BEACON, 1906	" 204	"	70° 12' 33.818 "	777.9	(602.3)
PROVINCETOWN, SOUTH EAST RANGE, REAR BEACON, 1906	" 204	"	42° 02' 16.041 "	494.9	(1356.3)
PROVINCETOWN, SOUTH EAST RANGE, REAR BEACON, 1906	" 204	"	70° 12' 10.218 "	235.0	(1145.1)

COMPUTED BY R. Rauck, Jr.

DATE March 3, 1971

CHECKED BY R. White

DATE March 12, 1971

DESCRIPTIVE REPORT CONTROL RECORD

MAP T P-00165 PROJECT NO. PH-7004 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter)	N.A. 1927 - DATUM (BACK)
PROVINCETOWN STANDPIPE, 1933	G.P. Vol. I 201	N.A. 1927	42° 03' 09.074" ✓ 70° 11' 34.934" ✓	280.0 ✓ 803.3 ✓	(1571.2) ✓ (576.5) ✓
PROVINCETOWN, TOWN HALL SPIRE, 1887	" 202	"	42° 03' 04.213" ✓ 70° 11' 17.404" ✓	130.0 ✓ 400.2 ✓	(1721.2) ✓ (979.6) ✓
PROVINCETOWN, WEATHER SIGNAL MAST, 1933	" 201	"	42° 03' 08.959" ✓ 70° 11' 18.867" ✓	276.4 ✓ 433.9 ✓	(1574.8) ✓ (945.9) ✓
PROVINCETOWN, CENTER CHURCH, SPIRE, 1933	" 201	"	42° 03' 11.966" ✓	369.2 ✓	(1482.0) ✓
LONG POINT, OUTER RANGE BEACON 3, 1933	" 204	"	70° 11' 05.534" ✓ 42° 01' 12.673" ✓	127.3 ✓ 391.0 ✓	(1252.5) ✓ (1460.2) ✓
LONG POINT, INNER RANGE BEACON 3, 1933	" 203	"	70° 11' 14.972" ✓ 42° 01' 17.920" ✓	344.5 ✓ 552.9 ✓	(1035.9) ✓ (1298.3) ✓
LONG POINT, OUTER RANGE BEACON 1, 1933	" 203	"	70° 11' 21.775" ✓ 42° 01' 50.205" ✓	501.0 ✓ 1549.0 ✓	(879.4) ✓ (302.2) ✓
LONG POINT INNER RANGE BEACON 2, 1933	" 203	"	70° 10' 11.550" ✓ 42° 01' 30.627" ✓	265.7 ✓ 944.9 ✓	(1114.5) ✓ (906.3) ✓
LONG POINT, OUTER RANGE BEACON 2, 1933	" 203	"	70° 10' 42.190" ✓ 42° 01' 26.686" ✓	970.6 ✓ 823.3 ✓	(409.7) ✓ (1027.9) ✓
LONG POINT LIGHTHOUSE, 1877	" 155	"	70° 10' 37.135" ✓ 42° 01' 58.860" ✓ 70° 10' 09.058" ✓	854.3 ✓ 1816.0 ✓ 208.4 ✓	(526.1) ✓ (35.2) ✓ (1171.8) ✓
COMPUTED BY A.C. Rauck, Jr.	DATE March 3, 1971	CHECKED BY R. White	DATE March 12, 1971	(2)	

COMPILATION REPORT

TP-00165

31. DELINEATION

Delineation was by Wild B-8 methods using strips 3, 4, and 5 of the color photography taken September 12, 1970; supplemented by offshore color photography also taken September 12, 1970. The photography was of good quality. There was no field inspection prior to compilation.

32. CONTROL

See "Photogrammetric Plot Report" dated February 1971.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

All detail was compiled from office interpretation of the photographs.

36. OFFSHORE DETAILS

No statement.

37. LANDMARK AND AIDS

Four Forms 76-40 Landmarks for Charting, One Form 76-40 Fixed Aids to Navigation for Charting, One Form 76-40 Landmark to be Deleted and one form 76-40 Aeronautical Chart Branch were submitted to Rockville Office on August 1, 1973.

38. CONTROL FOR FUTURE SURVEYS

None

39/ Junctions

Junction has been made with TP-00166 to the east. There are no contemporary surveys to the south, west or north.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. FIELD EDIT

Field edit was adequate.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U.S.G.S. Quadrangle PROVINCETOWN, MA., scale 1:24,000 dated 1958.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with NOS Chart 580, scale 1:20,000, 5th edition dated Dec. 12, 1970.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Richard R. White

Richard R. White
Cartographic Technician
~~March 29, 1971~~
August 2, 1973

Approved for forwarding:

Merlin J. Umbach
Merlin J. Umbach, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

Alfred C. Holmes
Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center

July 5, 1973

GEOGRAPHIC NAMES

FINAL NAMES SHEETS

Ph-7004 (Mass)

TP-00165

- Atlantic Ocean ✓
- Cape Cod
- Cape Cod Harbor ?
- Herring Cove ✓
- Long Point ✓
- Provincetown ✓
- Provincetown Beach
- Provincetown Harbor ✓
- Race Point ✓
- Wood End

C. E. Harrington

C. E. Harrington
Geographic Names

PHOTOGRAMMETRIC OFFICE REVIEW
T.P-00165

17

1. PROJECTION AND GRIDS BW		2. TITLE BW		3. MANUSCRIPT NUMBERS BW		4. MANUSCRIPT SIZE BW	
CONTROL STATIONS							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY BW			6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX			7. PHOTO HYDRO STATIONS XX	
8. BENCH MARKS BW		9. PLOTTING OF SEXTANT FIXES		10. PHOTOGRAMMETRIC PLOT REPORT BW		11. DETAIL POINTS BW	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE BW		13. LOW-WATER LINE BW		14. ROCKS, SHOALS, ETC. BW		15. BRIDGES BW	
16. AIDS TO NAVIGATION JB		17. LANDMARKS JB		18. OTHER ALONGSHORE PHYSICAL FEATURES BW		19. OTHER ALONGSHORE CULTURAL FEATURES BW	
PHYSICAL FEATURES							
20. WATER FEATURES BW			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	
CULTURAL FEATURES							
27. ROADS BW		28. BUILDINGS BW		29. RAILROADS BW		30. OTHER CULTURAL FEATURES BW	
BOUNDARIES							
31. BOUNDARY LINES XX				32. PUBLIC LAND LINES XX			
MISCELLANEOUS							
33. GEOGRAPHIC NAMES Name Standards Not Submitted. To Be Investigated. BW			34. JUNCTIONS BW			35. LEGIBILITY OF THE MANUSCRIPT BW	
36. DISCREPANCY OVERLAY BW		37. DESCRIPTIVE REPORT BW		38. FIELD INSPECTION PHOTOGRAPHS None		39. FORMS BW	
40. REVIEWER Compilation: B. Wilson April 1971 Field Edit: R. White Mar. 7, 1972				SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr.			
41. REMARKS (See attached sheet)							
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT							
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.							
COMPILER T.J. Bulfer Nov. 1971				SUPERVISOR Albert C. Rauck, Jr.			
43. REMARKS Field Edit Applied From: Field Edit Ozlid and Photos, Numbers, 70-L-(c)-8233, 8235, 8258, 8271, 8272 and Corps of Engineers Drawing 147 Dr. 29. 6 Form 76-40.							

FIELD EDIT REPORT
Job Ph-7004
Race Point to Chatham Mass.
TP-00165

This report is submitted for manuscript TP-00165 field edited August and September 1971. The manuscript was compiled without field inspection prior to compilation, therefore, a complete and thorough field edit was done.

All of this shoreline in this sheet is sand with very little or no bluffs, there are some sand dunes inshore from the beach which have patches of scrub pine and oak. All of this shoreline is National Park except Provincetown Harbor.

51 METHODS

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

All discrepancies on the field edit sheet have been verified directly on the sheet or referenced to a photograph. All notations on the field edit sheet and photographs are made in violet ink.

Notations for this manuscript are on the following photographs, 70-L-8233, 8235, 8257, 8258, and 8271.

52 ADEQUACY OF COMPILATION

The compilation of the shoreline, landmark buildings, and streets in Provincetown Harbor was very good, the outer shoreline as a whole appeared to be adequate. Compilation of the breakwater in Provincetown Harbor is good see drawing for length and shape, still under construction Oct. 19, 1971.

54 RECOMMENDATIONS

None

55 GEOGRAPHIC NAMES

No discrepancies in geographic names was noted in this manuscript.

56 NAUTICAL LANDMARKS AND FIXED AIDS

All nautical landmarks and fixed aids were inspected and submitted on form 76-40

57 SUBMERGED CABLES

Only one submerged cable was found in the area of this map it is noted on the field edit sheet and referenced to a photograph.

58 LANDMARK BUILDINGS AND STREETS

Landmark buildings recommended for deletion and charting are noted directly on the field edit sheet. All street additions are noted on the field edit and referenced to photos.

E.W. Hartford
Submitted By: E.W. Hartford, 10/29/71

REVIEW REPORT TP-00165

SHORELINE

July 5, 1973

61. GENERAL STATEMENT

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

North of Lat. 42°03'45" a comparison was made with T-11171, scale 1:10,000, dated 1959 and south of Lat. 42°03'45" a comparison was made with T-11175, scale 1:10,000, dated 1959. There was no comparison of the Atlantic Ocean shoreline east of Long. 70°13'. Shoreline changes were shown on the comparison print and were attributed to storm action and other changes that normally occur over a period of years.

In the area compared, TP-00165 supersedes the registered surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S. Quadrangle PROVINCETOWN, MA scale 1:24,000, dated 1958. Shoreline differences were shown on the comparison print in brown and were probably caused by the same actions mentioned in Par. 62.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with the Boat Sheets for H-9224 (PE-10-1-71) south of Lat. 42°03'45" and with H-9225 (PE-10-2-71) north of Lat. 42°03'45". The source of the mean high water line on these boat sheets was the Incomplete Manuscript. Numerous differences in the mean high water line were shown in purple on the comparison print.

There was no mean low water line comparison in Provincetown Harbor, or east of Long. 70°11' in Cape Cod Bay. The mean low water line was in good general agreement; however, there were some differences. Along the Atlantic Ocean shoreline, it was removed from TP-00165 east of Long. 70°10'30". The MLW in Provincetown Harbor

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS (cont'd)

was very doubtful and was removed from the final manuscript. Inasmuch as this feature was mapped on TP-00165 from office interpretation of Sept. 1970 photography taken at 3.3 feet above mean low water, or higher, it should be charted from the hydrographer's location, which was determined by soundings.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 580, 1:20,000 scale, 6th edition, dated Oct. 21, 1972. Differences between this chart and TP-00165 were shown in red on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Charles H. Bishop

Charles H. Bishop
Cartographer

Approved for forwarding:

Melvin J. Orbach
Melvin J. Orbach, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

Alfred C. Holmes
Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center

Approved:

W. H. Rigney
Chief, Photogrammetric Branch

Walter Hull
Chief, Coastal Mapping Division

ADDENDUM TO REVIEW REPORT

AUGUST 1, 1974

The measurements to the MHWL, supplied by the field editor, were too widely spaced to up-date the entire shoreline and produced an illogical inconsistency. On the advice of Rockville Quality Control Authority the shoreline was re-delineated to conform to its location as of the date of photography. *Adjusted shoreline appears on the comparison sheets in ball point pen.*

Bernard Kurs
Bernard Kurs
Cartographer

NOAA FORM 76-40
(2-71)
PRESCRIBED BY
PHOTOGRAMMETRY INSTRUCTION NO. 64.

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

ORIGINATING ACTIVITY
 FIELD INSPECTION
 FIELD EDIT
 COMPILATION
 FINAL REVIEW
 QUALITY CONTROL AND REVIEW
(See reverse for responsible personnel)

TO BE CHARTED
 TO BE DELETED
The following objects have been inspected from seaward to determine their value as landmarks:
ORIGINATING LOCATION
Coastal Mapping Division
Atlantic Marine Center
DATE
7/20/73

JOB NUMBER
PH- 7004
SURVEY NUMBER
T-
TP- 00165
STATE: Massachusetts
DATUM
NA 1927

CHARTING NAME	DESCRIPTION	POSITION		LONGITUDE D.P. METERS	METHOD AND DATE OF LOCATION (See instructions on reverse of this form)		CHARTS AFFECTED
		LATITUDE D.M. METERS	LONGITUDE D.P. METERS		FIELD INSPECTION	COMPILATION	
CUPOLA	(Wood) ht = 35 (135)	42 04	70 12	21.0 482	Verified 7/22/71 70 L 8257	Verified 7/22/71 70 L 8233	580
OBS. TOWER	(Wood) ht = 25 (40)	42 03	70 14	41.1 944	Verified 7/21/71 70 L 8235	Verified 7/21/71 70 L 8233	580
CHURCH SPIRE	Provincetown, Center Church Spire, 1933) (Wood) ht=90(110)	42 03	70 11	05.534 127.3	Triang. Rec. 7/22/71 70 L 8233	Triang. Rec. 7/22/71 70 L 8233	580
STAND- PIPE	(Provincetown Standpipe, 1933) ht = 120 (190)	42 03	70 11	34.934 803.3	Triang. Rec. 7/22/71 70 L 8233	Triang. Rec. 7/22/71 70 L 8233	580 1208
PILGRIM MONUMENT	(Pilgrim Monument 1909) (Stone) ht=253 (348)	42 03	70 11	20.987 482.6	Triang. Rec. 7/22/71 70 L 8233	Triang. Rec. 7/22/71 70 L 8233	580 1208
TOWN HALL SPIRE	(Provincetown, Town Hall Spire 1887) ht = 100 (105)	42 03	70 11	17.404 400.2	Triang. Rec. 7/22/71 70 L 8233	Triang. Rec. 7/22/71 70 L 8233	580
CHURCH SPIRE	Universalist Church, (Wood) ht = 107 (115)	42 03	70 11	20.0 461	Triang. Rec. 7/22/71 70 L 8233	Triang. Rec. 7/22/71 70 L 8233	580
NOTE: The Universalist Church Spire received damage from a hurricane in the 1950's, and is not good for triangulation. However, it still exists as a landmark.							

NOAA FORM 76-40 (2-71) PRESCRIBED BY PHOTOGRAMMETRY INSTRUCTION NO. 64.		U.S. DEPARTMENT OF COMMERCE-NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				ORIGINATING ACTIVITY					
<input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE DELETED		NON-LOCATING LANDMARKS FOR CHARTS ORIGINALING LOCATION Coastal Mapping Division Atlantic Marine Center		DATE		<input type="checkbox"/> FIELD INSPECTION <input type="checkbox"/> FIELD EDIT <input type="checkbox"/> COMPILATION <input checked="" type="checkbox"/> FINAL REVIEW <input type="checkbox"/> QUALITY CONTROL AND REVIEW (See reverse for responsible personnel)		METHOD AND DATE OF LOCATION (See instructions on reverse of this form)		CHARTS AFFECTED	
The following objects have been been inspected from seaward to determine their value as landmarks:		SURVEY NUMBER		DATUM		POSITION		FIELD INSPECTION		FIELD EDIT	
JOB NUMBER		LATITUDE		LONGITUDE		D.P. METERS		D.P. METERS		D.P. METERS	
PH- 7004		0 /		0 /		//		//		//	
STATE: Massachusetts		NA 1927		0		0		0		0	
DESCRIPTION		LATITUDE		LONGITUDE		D.P. METERS		D.P. METERS		D.P. METERS	
MARKER	(Provincetown, Southeast Range, Front Beacon, 1906)	42 01	55.995	70 12	33.818					Triang. Rec. 7/21/71	580
	White with black daymark ht = 70 (70)		1727.6		777.9					70 L 8233	1208
MARKER	(Provincetown, Southeast Range, Rear Beacon, 1906)	42 02	16.041	70 12	10.218					Triang. Rec. 7/21/71	580
	White with black daymark ht = 80 (100)		494.9		235.0					70 L 8233	1208
MARKER	(Long Point, Inner Range, Beacon 3, 1933)	42 01	17.920	70 11	21.775					Triang. Rec. 7/20/71	580
	White with black daymark ht = 42(50)		552.9		501.0					70 L 8233	1208
MARKER	(Long Point, Outer Range, Beacon 3, 1933)	42 01	12.673	70 11	14.972					Triang. Rec. 7/20/71	580
	White with black daymark ht = 33(40)		391.0		344.5					70 L 8233	1208
MARKER	(Long Point, Outer Range, Beacon 2, 1933)	42 01	26.686	70 10	37.135					Triang. Rec. 7/20/71	580
	White with black daymark ht = 36 (45)		823.3		854.3					70 L 8233	1208

23

NOAA FORM 76-40
(2-71)
PRESCRIBED BY
PHOTOGRAMMETRY INSTRUCTION NO. 64.

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

~~NONPUBLISHING AND/OR~~ LANDMARKS FOR CHARTS

TO BE CHARTED
 TO BE DELETED

ORIGINATING LOCATION
Coastal Mapping Division
Atlantic Marine Center

DATE

7/20/73

The following objects have ~~(been)~~ been inspected from seaward to determine their value as landmarks:

JOB NUMBER PH- 7004	SURVEY NUMBER T- TP- 00165	DESCRIPTION	DATUM NA 1927		POSITION		METHOD AND DATE OF LOCATION (See instructions on reverse of this form)		ORIGINATING ACTIVITY <input type="checkbox"/> FIELD INSPECTION <input type="checkbox"/> FIELD EDIT <input type="checkbox"/> COMPILATION <input checked="" type="checkbox"/> FINAL REVIEW <input type="checkbox"/> QUALITY CONTROL AND REVIEW (See reverse for responsible personnel)
			LATITUDE D.M.METERS	LONGITUDE D.P.METERS	FIELD INSPECTION	COMPILATION	FIELD EDIT	CHARTS AFFECTED	
MARKER		(Long Point, Inner Range, Beacon 2, 1933)	42 01	30.627	70 10	42.190		Triang. Rec. 7/20/71	580 1208
		White with black daymark ht = 48(55)		944.9		970.6		70-I-8233	
MARKER		(Long Point, Outer Range, Beacon 1, 1933)	42 01	50.205	70 10	11.550		Triang. Rec. 7/20/71	580 1208
		White with black daymark ht = 34(40)		1549.0		265.7		70-I-8233	
MARKER		(Long Point, Inner Range Beacon 1, 1933)	42 01	52.964	70 10	15.143		Triang. Rec. 7/20/71	580 1208
		White with black daymark ht = 46(50)		1634.1		348.3		70-I-8233	
POLE		Antenna Pole, (Steel) ht = 100(180)	42 02	31.38	70 11	44.81		P. I. 7/21/71	580
OBS. TOWER		(WOOD) ht = 20(60)	42 04	52.7	70 12	03.4		70-I-8233	580
				1626		77		Verified 7/22/71	580
LOOKOUT TOWER		On bldg. at Race Point Coast Guard Sta. (Wood)ht=22(65)	42 04	43.3	70 13	17.3		70-I-8257	580
				1336		398		Verified 7/22/71	580
								70-I-8235	

NOAA FORM 76-40
(2-71)
PRESCRIBED BY
PHOTOGRAMMETRY INSTRUCTION NO. 64.

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

~~NAVIGATION~~ LANDMARKS FOR CHARTS

TO BE CHARTED
 TO BE DELETED

ORIGINATING LOCATION
COASTAL MAPPING DIVISION
ATLANTIC MARINE CENTER

DATE
7/20/73

ORIGINATING ACTIVITY
 FIELD INSPECTION
 FIELD EDIT
 COMPILATION
 FINAL REVIEW
 QUALITY CONTROL AND REVIEW
(See reverse for responsible personnel)

The following objects have been inspected from seaward to determine their value as landmarks:

JOB NUMBER PH-7004	SURVEY NUMBER T-TP-00165	D.A.T.U.M.	POSITION		LONGITUDE		METHOD AND DATE OF LOCATION (See instructions on reverse of this form)			CHARTS AFFECTED
			LATITUDE D.M. METERS	LONGITUDE D.M. METERS	FIELD INSPECTION	COMPILATION	FIELD EDIT			
CHARTING NAME	DESCRIPTION									
MARKER	(Provincetown, Course D, Rear Range Beacon, 1947)	42 03	34.316 1058.8	70 13	18.934 435.4			Triang. Rec. 7/20/71 70 L 8235	580 1208	
MARKER	(Provincetown, Course D, Front Range Beacon 1947)	42 03	20.032 618.1	70 13	35.737 821.8			Triang. Rec. 7/20/71 70 L 8235	580 1208	
MARKER	(Provincetown, Northwest Range, Rear Beacon 1906)	42 03	18.95 584.7	70 12	43.30 995.7			Triang. Rec. 7/21/71 70 L 8235	580 1208	
MARKER	(Provincetown, Northwest Range, Front Beacon, 1906)	42 02	54.514 1682.0	70 13	12.046 277.0			Triang. Rec. 7/21/71 70 L 8235	580 1208	

NOAA FORM 76-40 (2-71)
 PRESCRIBED BY PHOTOGRAMMETRY INSTRUCTION NO. 64.
 U.S. DEPARTMENT OF COMMERCE - NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NONFLOATING AIDS TO NAVIGATION FOR CHARTS

ORIGINATING LOCATION: Coastal Mapping Division, Atlantic Marine Center
 DATE: 7/20/73
 TO BE CHARTED
 TO BE DELETED
 The following objects have been inspected from seaward to determine their value as landmarks:

CHARTING NAME	DESCRIPTION	SURVEY NUMBER	DATUM		POSITION		METHOD AND DATE OF LOCATION		CHARTS AFFECTED	
			NA 1927		LONGITUDE		FIELD INSPECTION	COMPILATION		FIELD EDIT
			° / ' " D.M. METERS	° / ' " D.P. METERS	° / ' " D.P. METERS	° / ' " D.P. METERS				
LIGHT	Long Point Light (Long Point Lighthouse, 1877)	T - TP- 00165	42 01	58.860 1816.0	70 10	09.058 208.4		Triang. Rec. 8/19/71 70 I. 8233	580 1208	
LIGHT	Wood End Light (Wood End Lighthouse, 1877)		42 01	16.022 494.3	70 11	38.498 885.8		Triang. Rec. 8/19/71 70 I. 8233	580 1208	
LIGHT	Race Point Light (Race Point Lighthouse, 1877)		42 03	43.966 1356.5	70 14	37.034 851.5		Triang. Rec. 8/19/71 70 I. 8235	580 1208	
AERO	Aero Beacon, rotating white and green, Provincetown Airport		42 04	33.4 1031	70 13	04.7 108		P.I. 8/19/71 70 I. 8258	580 1208	

04' 30"

42° 04'

Y = 390,000 FT.

03' 30"

70° 15' 00"

(28)

Dun

Sand

70(LC) 2200

OBSERVATION TOWER
HTI (Wood) Ft 25(40)

End of dike

RACE POINT LIGHT (RACE
POINT LIGHTHOUSE, 1877)

Tide
flat

Marsh

Race
Point

Hatches Harbor

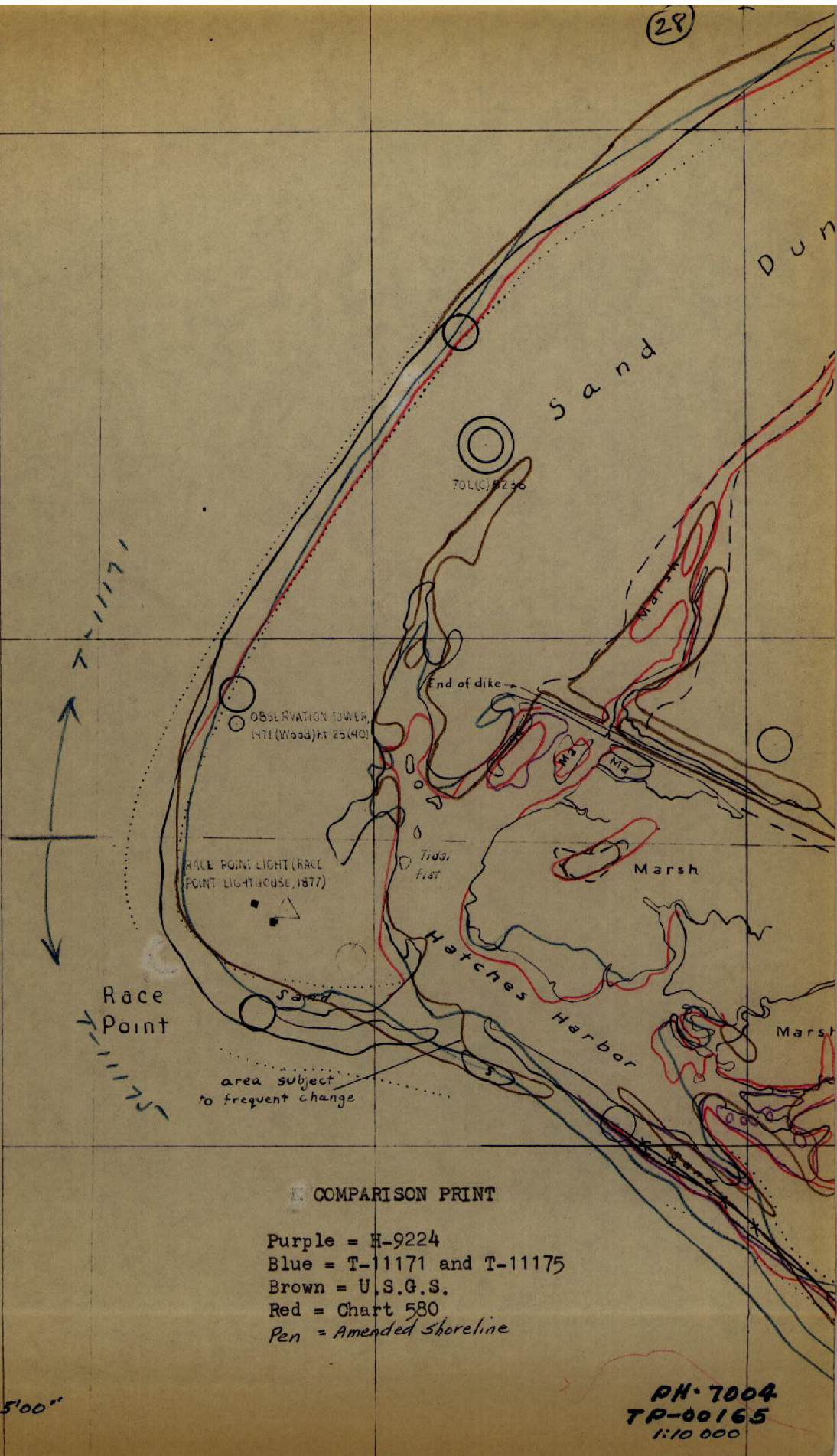
Marsh

area subject
to frequent change

COMPARISON PRINT

- Purple = H-9224
- Blue = T-11171 and T-11175
- Brown = U.S.G.S.
- Red = Chart 580
- Pen = Amended Shoreline

PH-7004
TP-00165
1:10 000



45,000 FT

13' 30"

70° 13'

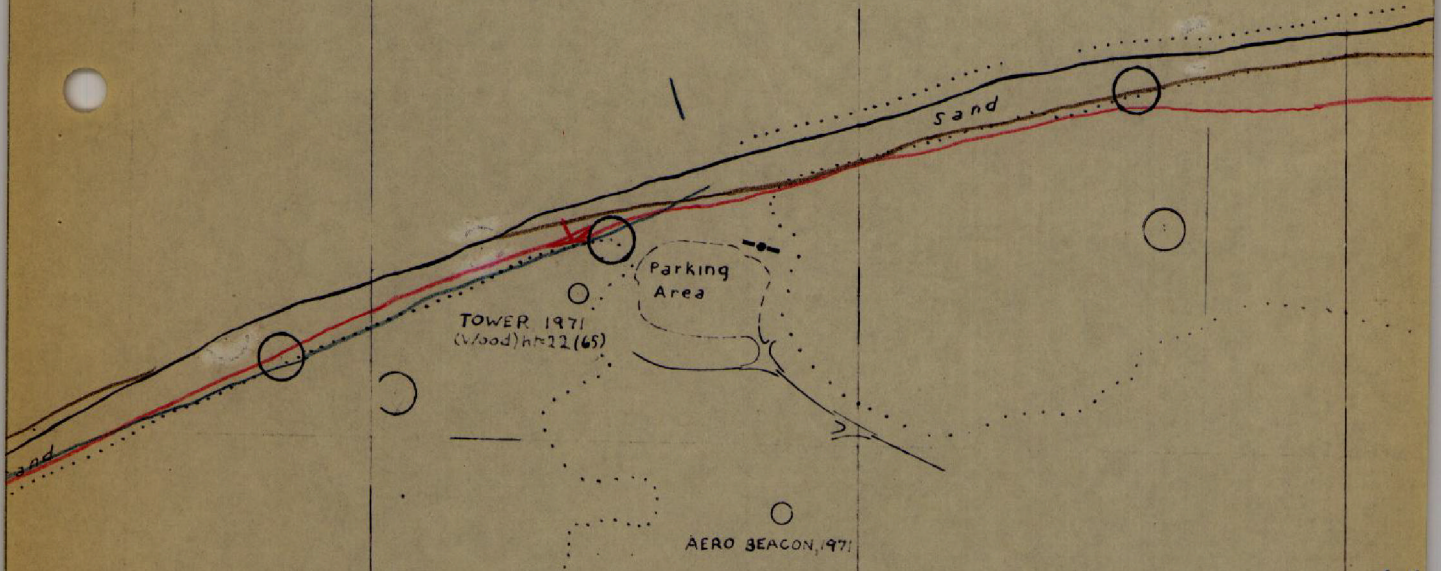
X = 950,000 FT.

12' 30"

(29)

42° 05' 30"

ATLANTIC O



COMPARISON PRINT

- Brown = U.S.G.S.
- Blue = T-11171
- Red = Chart 580



TP-00165
1:10,000

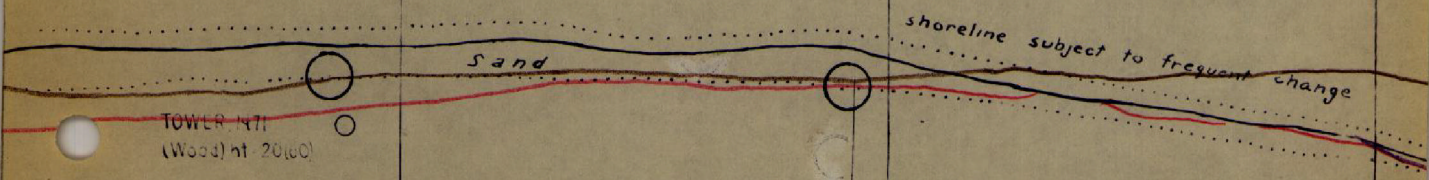
c s

2

42°05'30"

C E A N

42°05'00"



TOWER 1471
(Wood) ht 20(60)

S a n d

D u n e s

04'30"

CUPOLA, 1971
(Wood) ht 35(135)

COMPARISON PRINT

Purple = H-9225
 Brown = U.S.G.S.
 Red = Chart 580

10 W. R.M. 4 1954

A P E C O D

TP-00165
1:10,000

63

10' 30"

X = 960,000 FT.

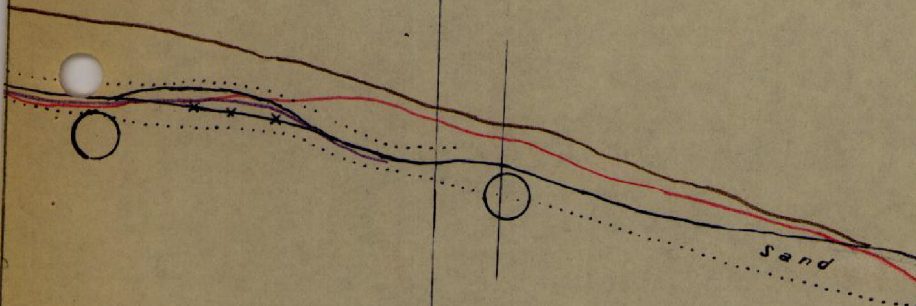
70° 10' 00"

(31)

42° 05' 30"

Y = 400,000 FT.

05'



Y = 395,000 FT.

04' 30"

COMPARISON PRINT

- Purple = H-9225
- Brown = U.S.G.S.
- Red = Chart 580
- Pen = Amended Shoreline

TP-00165

1:10,000

13'30"

70°13'

32

12'30"

End of dike

PROVINCETOWN, COURSE
D, REAR RANGE BEACON,
1947 (Metal) ht= 40(90)

70L(8235)

03'30"

PROVINCETOWN, COURSE
D, FRONT RANGE BEACON,
1947 (Metal) ht= 24(65)

PROVINCETOWN,
NORTHWEST RANGE,
REAR BEACON, 1906
(Metal) ht= 80(125)

42°03'

PROVINCETOWN, NORTHWEST RANGE FRONT
BEACON, 1906 (Wood) ht 70(90)

Herring
Cove

Provincetown

Parking Area

Beach

U.S. HWY 6

COMPARISON PRINT

Brown = U.S.G.S.
Blue = T-11175
Red = Chart 580

rock
grains

Parking
Area

Retaining
Wall

TP-00165

1:10,000

33

78'11"

12'

11'30"

42°03'30"

COMPARISON PRINT

- Brown = U.S.G.S.
- Blue = T-11175
- Red = Chart 580

Provincetown

PROVINCETOWN STANDPIPE, 1933 (Steel) ht-120 (190)

PILGRIM MONUMENT 1909 (Stone) ht 253 (348)

PROVINCETOWN WEATHER SIGNAL MAST, 1933

PROVINCETOWN TOWN HALL SPIRE, 1933 (Wood) ht-100 (105)

SPIRE 1971 (Wood) ht-107 (115)

PROVINCETOWN CENTER CHURCH SPIRE, 1933 (Wood) ht-90 (110)

42°03'00"

section in ruins

Point on Range

Groin

Pier Ruins

Overhead Conveyor

Groin

70L(0)8270

PR

TP-00165
1:10,000

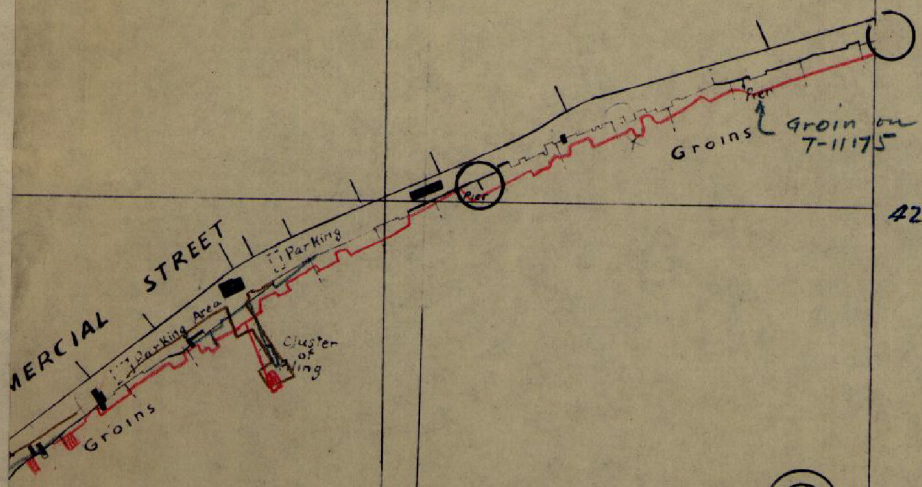
TELEGRAPH HILL, 1902

POLE, 1971 (Steel) ht-100 (180)

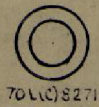
7090'00"

34

Y = 390,000 FT.



42° 03' 30"



701(0)8271

Municipal Wharf

42° 03'

Y = 385,000 FT.

Breakwater
(under construction)

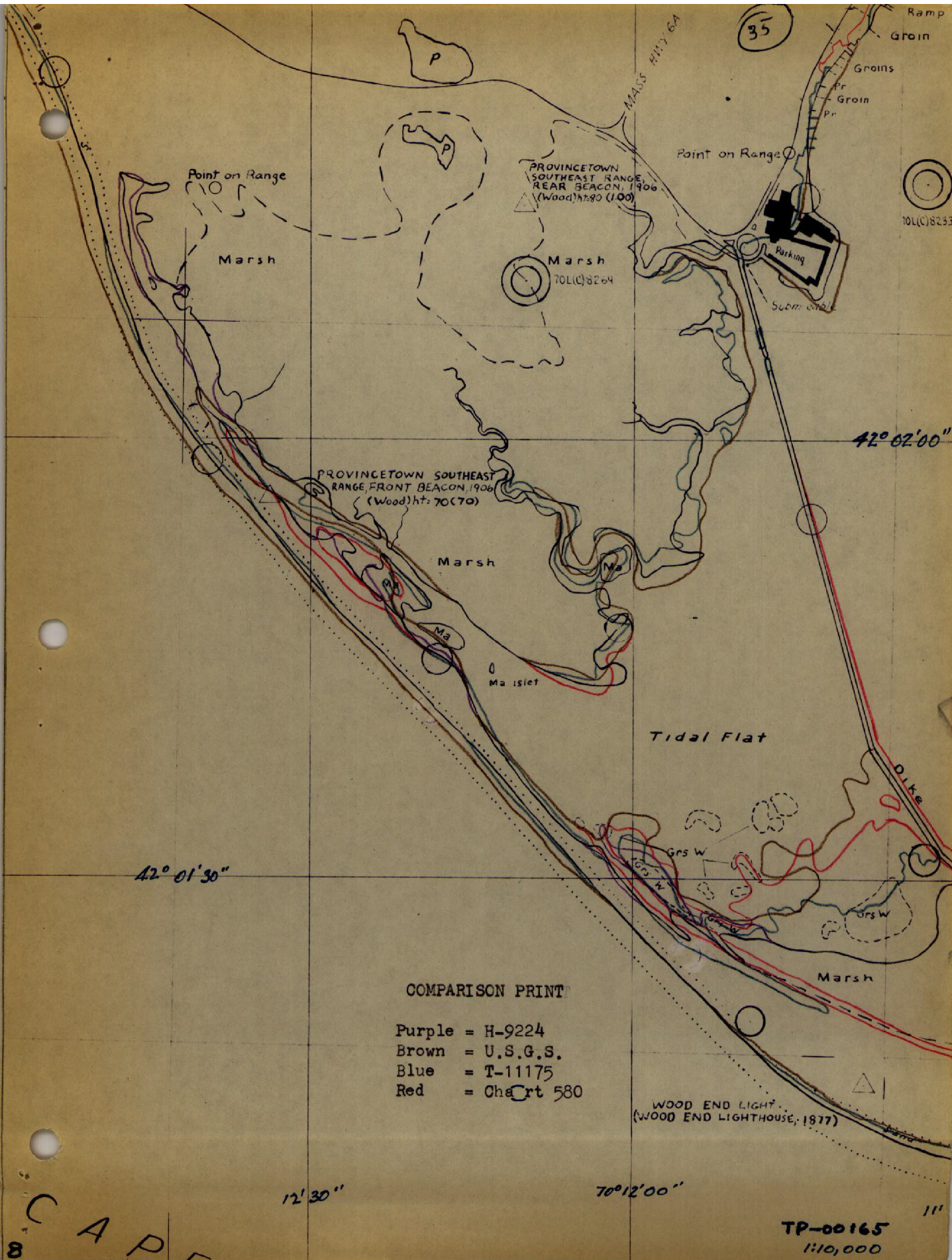
COMPARISON PRINT

Brown = U.S.G.S.
 Blue = T-11175
 Red = Chart 580

OVINCETOWN
HARBOR

JOINS TP-00166

TP-00165
1:10,000



36

cod. 2 ft on chart 580
Not located by F.E.
Not visible on photos.
1200"

WK

10' 30"

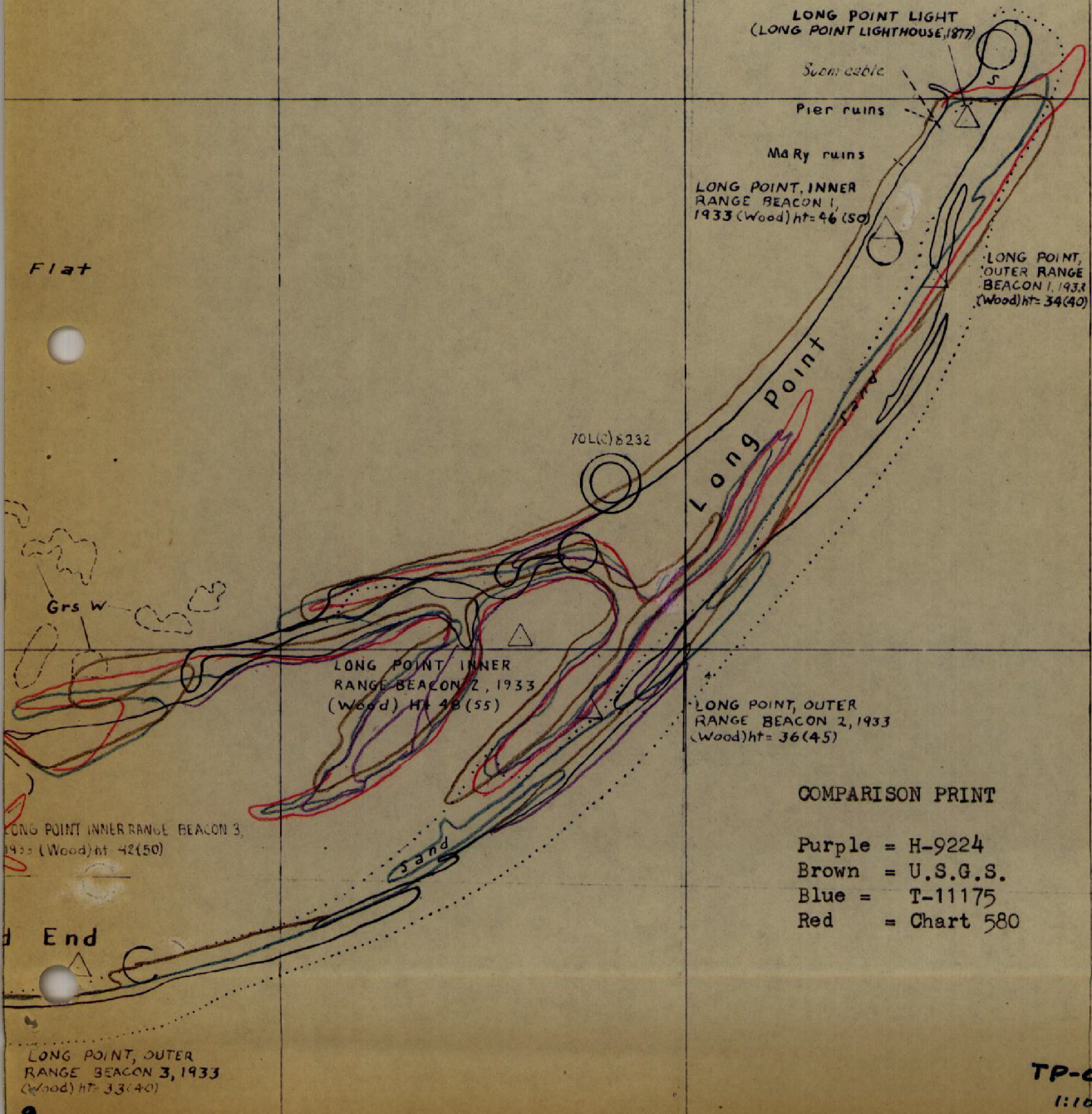
70° 0' 00"

Y = 3

42° 02'

01' 30"

Y = 37



COMPARISON PRINT

- Purple = H-9224
- Brown = U.S.G.S.
- Blue = T-11175
- Red = Chart 580

TP-00165
1:10,000