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Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

State. Massachusetts.

DESCRIPTIVE REPORT

Topographic } Sheet No. A & B 6033
~~Hydrographic~~ } 6034

LOCALITY

Cape Cod.

Provincetown and Vicinity.

Wellfleet and Vicinity.

1933.

CHIEF OF PARTY

K. T. Adams.

U. S. COAST & GEODETIC SURVEY
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DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEETS "A", "B", & "C"

*RT
Smith*

CAPE COD, MASSACHUSETTS, 1933.

Project H.T. 145

K. T. Adams.
Chief of Party.

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEETS

"A", "B", & "C".

CAPE COD, MASSACHUSETTS; 1933

Project H.T. 145

a- AUTHORITY: The authority for the topographic work embraced by these sheets is included in the "Orders and Instructions, Project H.T.145, Paragraph 4, to the Inspector, Coast and Geodetic Survey, Boston, Massachusetts.

b- GENERAL DESCRIPTION OF THE COAST:

The outer coast of this area of Cape Cod has, as its most important feature, the bold and somewhat broken headland which extends between Nauset Coast Guard Station and Highland Coast Guard Station. This highland is highest in its northern section in the vicinity of Cape Cod Lighthouse, and presents a high weathered sandy face to seaward.

A series of high, grass-covered sand dunes, lie behind the shore between Highland Coast Guard Station and Race Point Coast Guard Station where they begin to gradually level off to the low sandy area at Race Point. The scrub-covered hills north of Provincetown show above these sand-dunes. The tall brick stack at the Fertilized Plant at the west end of Pilgrim Lake (East Harbor) also shows to seaward.

The shoreline of Provincetown Harbor is low and sandy to a point almost due west of Cape Cod Lighthouse where the eastern shore of Cape Cod Bay rises to the bold ridge of hills which extend southward to Great Beach hill. The appearance of this section of the shore is similar to that on the outer coast between Nauset Beach Coast Guard Station and Highland Coast Guard Station. The tall Pilgrim Monument at Provincetown towers above all the surrounding country.

Wellfleet Harbor extends in a series of sloughs into the back country. Headlands having the appearance of sand dunes separate these sloughs.

The land area in the vicinity of Eastham is in the form of a plateau which falls away to a low bluff at the eastern shore of Cape Cod Bay.

c- LANDMARKS:

A list of "Landmarks for Charts" is attached hereto. This list only includes such landmarks as were topographically located and not previously located by triangulation.

The prominent landmarks in the entire area surveyed are mentioned and described below irrespective of triangulation or topographic location.

Cahoon's Hollow Coast Guard Station Flagpole: The white, wooden flagpole on the bluff immediately south of the Cahoons Hollow Coast Guard Station, Lat. 41 56.6, Long. 69 59.1

Half-way House; the Coast Guard half-way house between Pamet Coast Guard Station and Cahoon's Hollow Coast Guard Station. Lat. 41 58.1, Long. 70 00.1

Flagpole Old Pamet River Coast Guard Station: The white flagpole immediately south of the old Pamet River Coast Guard Station. This pole is at sea level and only shows seaward over a limited arc. Lat. 42 00.0, Long. 70 02.1

Wind Mill; The steel windmill tower on the slope of the hill immediately south of the old Pamet River Coast Guard Station. This tower shows prominently to the north and eastward. Lat. 42 00, Long. 70 01.1

Pamet River Coast Guard Station Signal Mast: The tall steel signal tower at the new Pamet River Coast Guard Station. This tower is behind the low dunes which border the coast at this point but shows to seaward over them. Lat. 42 00.1, Long. 70 01.6.

Watertank; the wooden watertank at the group of houses on the low ridge and about 300 meters northward from the old Pamet River Coast Guard Station. Lat. 42 00.1 Long. 70 01.4

Cape Cod Lighthouse: This is the most prominent landmark on this section of the coast and shows to Cape Cod Bay with the exception of Wellfleet harbor as well as to the outer ocean. Lat. 42 02.4, Long. 70 03.6

Fog Horn, The fog horn in front of Cape Cod Lighthouse. Lat 42 02.4, Long. 70 03.5

N.R.C. Radio Tower, the small steel radio tower immediately southeast of Cape Cod Lighthouse.

Flagpole, The tall white flagpole on the top of a prominent hill about 1 mile northward along the outer coast from the Pamet River Coast Guard Station. This flagpole shows in all directions to seaward and is the most prominent object between the Pamet River Coast Guard Station and Aldrich Tower. Lat. 42 00.9, Long. 70 02.1

Aldrich Tower, the prominent stone tower on the high land about $\frac{1}{2}$ mile southeastward along the coast from Cape Cod Lighthouse. This is almost equally prominent with Cape Cod Lighthouse and shows well to seaward.

- South Radio Tower: The southerly of the two tall steel radio towers immediately north of Cape Cod Lighthouse. This tower shows prominently to Cape Cod bay as well as to seaward.
Lat. 42 02.4, Long. 70 03.7
- North Radio Tower: The northerly of the two tall steel radio towers immediately north of Cape Cod Lighthouse. This tower shows prominently to Cape Cod Bay as well as to seaward.
Lat. 42 02.5, Long. 70 03.7
- Highland Coast Guard Signal Mast; The tall steel signal tower at the Highland Coast Guard Station. Lat. 42 02.9, Long. 70 04.5
- Halfway House: The small Coast Guard halfway house midway between High Head Coast Guard Station to Highland Coast Guard Station.
Lat. 42 03.5, Long. 70 05.7
- High Head Coast Guard Signal Mast: The tall steel signal tower at the now abandoned High Head Coast Guard Station. Lat. 42 03.9, Long. 70 06.9. Shows thru a gap in dunes to Cape Cod Bay.
- Peaked Hill Bars Coast Guard Signal Mast: The tall steel signal tower about 50 meters northwestward from the Peaked Hill Bars Coast Guard Station. This tower is about 250 meters inshore from the high water line and shows well over the sand dunes to seaward.
- Observation House, Peaked Hill Bars Coast Guard Station: This is the circular, white, observation tower on the top of the low sand dunes about 100 meters inshore from the highwater line.
- Halfway House: The small Coast Guard halfway house midway between Peaked Hill Bars and Race Point Coast Guard Stations.
Lat. 42 04.9, Long. 70 11.6
- Race Point Coast Guard Signal Mast: The tall steel signal tower at the Race Point Coast Guard Station. Lat. 42 04.7, Long. 70.13.6
- Observation Tower, Race Point Coast Guard Station: The square wooden house on the top of a steel tower at Race Point Coast Guard Sta.
Lat. 42 04.7, Long. 70 13.6
- Race Point Lighthouse; The lighthouse on Race Point.
- Rear N.W. Range Beacon: Pole on wooden quadripod Lat. 42 03.3, Long. 70 12.*
- Front N.W. Range Beacon: Pole on wooden quadripod Lat. 42 02.9, Long. 70 13.2
- Rear S. E. Range Beacon, Pole on wooden quadripod. Lat. 42 02.2, Long 70 12.0
- Front S.E. Range Beacon, Pole on wooden quadripod. Lat. 42 01.9, Long 70 12.5
- Wood End Lighthouse: The lighthouse at Wood End, Long Point.
- Wood End Coast Guard Signal Mast: The tall steel signal mast at the Wood End Coast Guard Station, Lat. 42 01.2, Long. 70 11.5
- Outer Range Beacon 3: The outer range beacon at the western end of the measured mile on Long Point.

- Inner Range Beacon 3, The inner range beacon at the western end of the measured mile on Long Point.
- Outer Range Beacon 2, The outer range beacon, center of measured mile on Long Point.
- Inner Range Beacon 2, The inner range beacon, center of measured mile on Long Point.
- Outer Range Beacon 1, The outer range beacon at the eastern end of the measured mile on Long Point.
- Inner Range Beacon 1, The inner range beacon at the eastern end of the measured mile on Long Point.
- Long Point Lighthouse: The lighthouse on the extreme eastern end of Long Point.
- Pilgrim Monument; The tall stone tower of the Pilgrim Monument at Provincetown. This is the most prominent landmark on Cape Cod and in clear weather shows to all portions of Cape Cod Bay and to seaward. Lat. 42 03.1, Long. 70 11.3.
- Provincetown Standpipe; The large steel standpipe of the city of Provincetown. This standpipe shows well to seaward and to Cape Cod Bay. Lat. 42 03.1, Longitude. 70 11.6.
- Spire Center Church, Provincetown. White church spire, Lat. 42 03.2, Long. 70 11.1
- Stack, Provincetown Cold Storage Plant, Lat. 42 03.4, Long. 70 10.6
- Weather Signal Mast, the tall steel signal tower, at the east end of the base of the Pilgrim Monument in Provincetown. The weather signals are displayed on this mast. Lat. 42 03.1, Long. 70 11.3
- Spire, Provincetown Town Hall; The green spire of the town Hall of Provincetown. Lat. 42 03.1, Long. 70 11.3
- Spire, Universalist Church, The spire of the Universalist Church in Provincetown. Lat. 42 03.0, Long. 70 11.3
- Spire, Orthodox Church, the spire of the Orthodox Church (now Church of the Pilgrims) at Provincetown, Lat. 42 03.1, Long. 70 11.3
- Stack, Colonial Cold Storage Plant, Provincetown. Lat. 42 03. Long 70 11.3
- Stack, Fishermans Cold Storage Plant, Provincetown Lat. 42 02.9 Long. 70 11.3
- Cupola, Gov. Bradford School, Provincetown Lat. 42 02.8, Long. 70 11.6
- Stack, Provincetown, Lat. 42 04.7, Long. 70 11.5
- Stack, Cape Cod Cold Storage Plant, Provincetown. Lat. 42 02.7 Long. 70 11.5
- Stack, Fertilizer Plant. This is the tall brick stack at the west end of Pilgrim Lake (East Harbor) and is the most prominent stack on this section of Cape Cod. Lat. 42 03.8, Long. 70 08.7

- Stack, Pumping Station, the tall brick stack at the Provincetown Pumping Station. Lat 42 02.7, Long. 70 06.3.
- Stack, North Truro. The tall brick stack on the shore of Cape Cod Bay at North Truro. Lat. ~~40~~ 42 01.8, Long. 70 05.6
- Spire, Truro Congregationalist Church. This spire is inland but shows to some sections of Cape Cod Bay. Lat. 41 59.9, Long. 70 03.3
- Spire, Truro Town Hall. This spire is inland but shows to some sections of Cape Cod Bay.
- South Truro Methodist Church Spire. This church stands all alone on a high plateau and is the most prominent object on the northern end of Cape Cod after Cape Cod Lighthouse and the Pilgrim Monument. Lat. 41 58.7, Long. 70 04.1
- Tank, Shell Gasoline Station. This is the eastern of the twin, yellow gasoline tanks at the Shell Gasoline Station near the western end of Pilgrim Lake. Lat. 42 03.8, Long. 70 08.8
- East Water Tank, Chequessett Inn. The easterly of the two wooden water tanks on the low hill behind the Chequessett Inn, Wellfleet. Lat. 41 55.8 Long. 70 02.3
- West Water Tank, Chequessett Inn. The westerly of the two water tanks on the low hill behind the Chequessett Inn, wellfleet. Lat. 41 55.8, Long. 70 02.3
- Spire, N. Wellfleet Cong. Church. Lat. 41 56.3 Long. 70 01.7
- Belfry, North Wellfleet Methodist Church, Lat. 41 56.3, Long. 70 01.8
- Blackfish Cupola: The large cupola on the west end of the prominent house on the north side of Blackfish Creek. Lat. 41 54.7 Long. 70 00.8
- Red Cupola: The red cupola of a prominent house on the north side of Blackfish Creek, Lat. 41 54.6, Long. 70 00.3
- In addition to the above mentioned landmarks the houses on the top of Corn Hill, Lat. 42 00.2, Long. 70 04.8, as shown on the topographic sheet should be shown on the chart as these show to all parts of Cape Cod Bay in that vicinity.

d-Character of Control Used.

Sheet "A"- Sheet "A" was controlled entirely by Coast and Geodetic Survey and U.S. Engineers triangulation executed before 1933. The junction with Sheet "B" was not made until after triangulation Station Corn Hill 2 was located in 1933 and it will be noted that this is the only control station which is common to both sheets. Topographic Station "NOOK" is common to both sheets and is the junction point on the outer coast. This was located on both sheets from triangulation to the northward and southward respectively.

Sheet "B"- The work on this sheet was controlled by such triangulation as was located previously to 1933 and found to be still in existence and by such triangulation stations as were located in 1933. In greater part the topographic work was executed before the 1933 triangulation was completed but these locations checked those on the topographic sheet which were located by graphic triangulation and three point fixes. The connection between this sheet and sheet "C" was made on triangulation station "Billingsgate " and topographic stations on the eastern shore of Wellfleet Harbor which are common to both sheets. The topographic stations mentioned ~~above~~ were located independently on sheets "B" and "C", and found to check.

Sheet "C"-The small amount of work shown on this sheet was controlled entirely by 1933 triangulation and joins sheet "B" as noted above.

e- Closing Errors of Traverses-

The closing errors on the shoreline was extremely small and adjusted in the field.

The location of the highway between Truro and Wellfleet on Sheet "B" had a closing error of about 100 meters but this section was rerun.

f- Surveying Methods:

All of the topographic work was done by use of the planetable and no auxilliary methods were used.

g- Incomplete Portions:

In accordance with the instructions the topography was to consist of a delineation of the high and low water lines and such features as are of navigational importance. Attention was also given to such features as might be of importance as control for air photographic reduction.

In general no attempt was made by the original topographer to locate the low water line except in such cases where it coincided with the outside edges of the marsh. A small amount of low water line is shown westward of Cape Cod Lighthouse on the outer coast, and on sheet "B" in Herring River and at Billingsgate Island. The low water line in most places on the sheets lies far out from the shore and, because of the gradual sloping flats, it is impossible to get a delineation of the low water line except at dead low water. This would have necessitated a considerable slowing of the work as the topographer was being pushed by the hydrographic party for signal locations.

The main highway and some connecting highways was located.

A location of the railroad and the highway crossings was made for photographic control, as well as such salient features as could be easily determined.

The base of the bluff is shown on sheets "B" and "C" as a light dashed line.

There are no form lines or contours on the sheets.

h- Changes in Shore Line and Prominent Features:

Sheet "A" As no photostatic copies of the previous topography were available the present work was compared with similar features as shown on Chart # 341.

The shoreline between Cape Cod Lighthouse and High Head Coast Guard Station has most probably changed very little altho the high bluffs receded with each storm. The old highwater line when transferred to the present work falls at the approximate location of the foot of the bluff which is not truly the position of the highwater line.

Changes in the position of the highwater line between High Head Coast Guard Station and Race Point are as noted:

Long. 70 08	140 meters southward
Long. 70 10	100 meters southward
Long. 70 12	60 meters southward
Long. 70 14	20 meters northward
Race Point	10 meters westward.

The greatest change in the section of the coast between Race Point and Long Point is immediately southward of the entrance to Hatches Harbor. The long narrow spit shown on charts 341 and 1208 has entirely disappeared and the present highwater line is approximately 100 meters northeastward. Hatches Harbor is dry at extreme low water and appears to be filling up. Very little water stands behind the dike.

Long Point appears to be building up on its southern side. At Lat. 42 02 the shoreline is approximately 15 meters to the westward; at Wood End approximately 40 meters southward; and the very point has extended 100 meters eastward from the location as shown on Chart 341.

The area to the westward of the dike between Provincetown and Long Point as shown outside the highwater line is to a great extent covered by marsh grass traversed by sloughs which lead from places in the dike where settlement has occurred. This area is entirely bare at low water.

The waterfront at Provincetown has remained practically unchanged.

East Harbor is now locally known as Pilgrim Lake.

Extensive sand flats fringe the shore of Provincetown Harbor at low water and continue in a somewhat lesser extent along the eastern shore of Cape Cod Bay to Great Beach Hill. The extensive bars which form Billingsgate Shoal begin here.

Noted changes in highwater line are as follows:

Long. 70 10	10 meters northward
Long. 70 08	30 meters northward
Long. 70 07	60 meters northward
Lat. 42 02	no change
Lat. 42 01	50 meters eastward.

h- Changes in Shore Line and Prominent Features- cont.

Sheet "B" - Charts 1208- 340

The position of the highwater line on the outer coast shows changes as noted below. Comparison was made by scaling from Charts 1208 and 340. The shoreline appears to be moving westward.

Lat. 41 55	50 meters westward
Lat. 41 56	55 meters westward
Lat. 41 57	no change
Lat. 41 58	no change
Lat. 42 00	50 meters westward
Lat. 42 01	50 meters westward.

On the Cape Cod Bay shore considerable change is noted in the vicinity of Pamet River due most probably to the erection of jetties at the entrance. This has almost entirely changed the flow from Pamet River. The northern entrance is shallow and bares entirely at low water and appears to be gradually closing up, with accompanying changes in the shore line.

The tower on Corn Hill shown as a landmark on chart ~~341~~ 1208 is no longer in existence and should be removed from the chart.

Changes in the position of the highwater line of the eastern shore of Cape Cod Bay between Lat. 41 57 and Lat. 41 54 scale as follows.

Lat. 41 57	no change
Lat. 41 56	100 meters eastward
Lat. 41 55	no change
Lat. 41 54	70 meters eastward.

The shoreline now runs in an almost north and south direction between Great Beach Hill and Griffin Island. The change here is apparent at once on inspection of the chart and the topographic sheet.

The long spit running southward from Little Beach Hill has now been severed for a distance of approximately 700 meters. This stretch is covered by about 1 foot of water at high tide. A channel may form at this place.

Billingsgate Island is now washed entirely at extreme high tides and shows only a narrow strip of sand and a ruined stone sea wall at high tide.

A definite channel is forming between Billingsgate Island and the sand cay to the northward. There is a strip of water here about 1100 meters wide at high water and small boats drawing about 3 feet of water can pass out at that time. There is a strong current thru here at flood and ebb and it appears possible that the main flow from the channel into Wellfleet Harbor may shortly pass thru this place.

A change of approximately 150 meters in the width of the spit on which Great Beach Hill is located has occurred due to the erosion of both shorelines.

h- Changes in Shore Line and Prominent Features - cont.

The easterly point of Great Island and the entrance to Herring River has remained practically the same. A series of rocks, bare at High Water were located off this point, approximate position Lat 4155.2 Long. 70 03.0, by the hydrographic party.

Some minor changes have occurred in Blackfish Creek and on the northern shore of Wellfleet Harbor in the shape of spits and position of the edge of the marsh.

The highwater line of the western side of Lieutenants Island lies approximately 80 meters eastward of the position as shown on chart 340. Three new rocks were located by topographic intersection off Lieutenants Island and a series of scattered rocks entirely bare at low water lie between the most westerly of the located rocks and the shore.

The landmark "S. Wellfleet Cong. Church Spire" should be removed from the charts as the spire and church are no longer in existence.

Sheet "C" Due to the small amount of topography on this sheet very few changes can be noted. In general the high water line has shifted from 30 to 50 meters eastward from the position as shown on chart 340.

The landmark, "Spire" (lat. 41 50.5, Long. 69 59.1) Chart 340 should be removed from the chart as the church and spire have been destroyed.

i- Magnetic Meridians:

Contrary to instructions to the topographer no magnetic meridian was determined on sheet "A" during the progress of the work. The magnetic meridian at triangulation station Corn Hill 2, 1933 and the magnetic station at Provincetown was measured by means of the compass declinometer and so it was not thought necessary to measure the magnetic declination at the end of the season with the declinoire.

The magnetic declination on "Sheet B" was measured at triangulation station Blackfish 1933 with both the declinoire and the compass declinometer. The comparison and results are as follows:

Magnetic Declination, declinoire 184	14 42.9' W.
Magnetic Declination, Compass Decli.	15 45 W.

The magnetic declination on sheet "C" was measured with the declinoire at triangulation station N. Eastham 1933 and found to be 15 11.3 W.

j- Inking: The inking was done entirely by Mr. C.N.Strong, a civilian topographer under the supervision of officers of the service. The topography on the outer coast, sheet B, some scattered sections in the vicinity of Corn Hill, Great Beach Hill and Blackfish Creek, and the entire work on Sheet "C" was done by this topographer.

The outside edge of the heavy line delineating the high waterline is the position of high water.

The inner edge of the marsh was considered the highwater line and is so shown even tho some sections of the marsh showed at high water. The marshes are all salt.

A light dashed line shows the foot of the bluffs on the outer coast, Sheet "B".

The topographic culture outside the highwater line is sand except as otherwise noted, viz. mud, marsh.

k- Topographers: The work on sheet "A" and a greater part of the work on sheet "B" was done by Mr. Lynt, a civilian engineer formerly with the Geological Survey, who was in independent charge of this class of work until he left the service about the beginning of August, 1933. When work was resumed all work on Cape Cod at this time was placed in charge of the writer of this report.

The character of the work of this first topographer was, in general, fair, altho he located no low water line nor greatly appreciated the necessity for an accurate determination of the outer and inner edge of marsh land, and hydrographic features such as outlying rocks. A considerable portion of the work south of Lieutenants Island and some portions at Great Beach Hill had to be rerun.

The connection between sheets "A" and "B" was also very poor and a considerable portion of the topography surrounding Corn Hill had to be rerun.

The remainder of the topography was run by Mr. C.N.Strong whose work was of a more desired quality.

l- Planetable Positions

A list of planetable positions is attached.

Approved:

K.T. Adams
K. T. Adams,
Chief of Party.

Respectfully submitted:

Earle A. Deily
Earle A. Deily
H. & G. Engr.

LIST OF PLANE-TABLE POSITIONS

SHEET A

Object	Latitude	D.M.	Longitude	D.P.	Description
Corn	42 00	484 (1367)	70 04	1198 (182)	Banner on pole
Far	42 00	918 (933)	70 04	1314 (66)	Banner on pole
Pot	42 00	1347 (504)	70 05	07 (1373)	Banner on pole
Sid	42 00	1801 (50)	70 05	187 (1193)	Banner on pole
Val	42 01	476 (1375)	70 05	368 (1012)	Banner on pole
Cor	42 01	977 (874)	70 05	554 (826)	Banner on pole
Kat	42 01	1547 (304)	70 05	856 (524)	Stack
Monument	42 02	344 (1507)	70 05	1301 (82)	Stone Monument
Hon	42 02	389 (1462)	70 05	1326 (54)	Banner on pole
Run	42 02	977 (874)	70 06	490 (890)	Banner on pole
Mut	42 02	1464 (387)	70 06	1070 (310)	Banner on pole
Ned	42 03	150 (1701)	70 06	1030 (350)	Banner on pole
Nub	42 03	347 (1504)	70 07	850 (530)	Banner on pole
But	42 03	519 (1332)	70 07	1171 (209)	Banner on pole
Red	42 03	752 (1099)	70 08	248 (1132)	Banner on pole
Stack	42 03	1441 (410)	70 08	978 (402)	Stack
Top	42 04	80 (1771)	70 08	1039 (340)	Banner on pole
Tank	42 03	1390 (461)	70 08	1100 (281)	"Shell" gasoline tank ✓ Easterly tank

Object	Latitude	D.M.	Longitude	D.P.	Description
Sub	42 03	1433 (418)	70 09	380 (1000)	Banner on pole
Ban	42 03	1283 (568)	70 09	1077 (303)	Banner on pole
Dub	42 03	695 (1156)	70 10	817 (563)	Banner, end of dock
Monument	42 03	1056 (795)	70 11	764 (617)	Mass. State Monument #470
Spire	42 03	397 (1454)	70 11	132 (1249)	Center Church
Stack	42 02	1848 (03)	70 11	446 (935)	Tall, square brick chimney. Colonial Cold Storage.
Cit	42 02	1746 (105)	70 10	1280 (100)	Banner, end of City Dock
Stack	42 02	1675 (176)	70 11	507 (874)	Square brick stack Fisherman's Cold Storage Co.
Rick	42 02	1159 (692)	70 11	412 (968)	Derrick on dock
Break	42 02	300 (1551)	70 11	1129 (251)	Banner on pole
Fri	42 01	1648 (203)	70 10	343 (1037)	Inner range beacon
Sat	42 01	1570 (281)	70 10	260 (1120)	Outer range beacon
Thur	42 01	853 (998)	70 10	850 (530)	Outer range beacon
Wed	42 01	967 (884)	70 10	967 (413)	Inner range beacon
Bos	42 01	418 (1433)	70 11	340 (1040)	Outer range beacon
Ab	42 01	573 (1278)	70 11	490 (890)	Inner range beacon
Ras	42 01	1126 (725)	70 12	225 (1155)	Banner on pole
Sap	42 02	703 (1148)	70 12	1224 (156)	Banner on pole
M. H. B.	42 02	725 (1126)	70 12	151 (1230)	Mass. Highway Bound

Object	Latitude	D.M.	Longitude	D.P.	Description
Black	42 03	655 (1196)	70 13	781 (599)	Banner on pole
Mag	42 03	967 (884)	70 14	64 (1316)	Banner on pole
Pod	42 03	1171 (680)	70 14	600 (780)	Banner on pole
Nut	42 03	1748 (103)	70 14	914 (467)	Signal on Race Point Near R.P. Light
Gat	42 04	147 (1704)	70 14	735 (644)	Banner on pole
Axe	42 04	667 (1184)	70 14	411 (970)	Banner on pole
Tar	42 04	923 (928)	70 13	1371 (08)	Banner on pole
Buk	42 04	1220 (631)	70 13	876 (505)	Banner on pole
<i>Go Flag</i>	42 04	1350 (501)	70 13	352 (1029)	Race Point Coast Guard Signal Mast
Hen	42 04	1578 (273)	70 12	1095 (286)	Banner on pole
Bas	42 04	1592 (259)	70 12	709 (672)	Banner on pole
Tie	42 04	1640 (211)	70 12	360 (1021)	Banner on pole
Gun	42 04	1636 (215)	70 12	54 (1327)	Banner on pole
Hit	42 04	1652 (199)	70 11	922 (459)	Banner on pole
<i>* 4 H.W. House</i>					
Lot	42 04	1634 (217)	70 11	397 (984)	Banner on pole
Can	42 04	1586 (265)	70 11	88 (1293)	Banner on pole
Lam	42 04	1572 (279)	70 10	1031 (350)	Banner on pole
Min	42 04	1544 (307)	70 10	711 (670)	Banner on pole
Tit	42 04	1486 (365)	70 10	428 (952)	Banner on pole

Object	Latitude	D.M.	Longitude	D.P.	Description
Fir	42 04	1325 (526)	70 09	1278 (103)	Banner on pole
Mal	42 04	1199 (652)	70 09	858 (523)	Banner on pole(house)
Fun	42 04	1143 (708)	70 09	554 (827)	Obs.house, Peaked Hill Bars C.G. Station ✓
Hat	42 04	975 (876)	70 08	1193 (188)	Banner on pole
Cook	42 04	725 (1126)	70 08	532 (849)	Banner on pole
Lay	42 04	592 (1259)	70 08	289 (1112)	Banner on pole
Lay(new)	42 04	585 (1266)	70 08	245 (1136)	Banner on pole
Lee	42 04	481 (1370)	70 07	1266 (115)	Banner on pole
Pus	42 04	442 (1409)	70 07	1277 (104)	House
Ton	42 04	285 (1566)	70 07	735 (646)	Banner on pole
Use	42 04	171 (1680)	70 07	461 (920)	House
H.H.S.T.	42 03	1747 (104)	70 06	1214 (167)	High Head Signal Tower
Man	42 03	1508 (343)	70 06	699 (882)	Banner on pole
Not	42 03	1365 (486)	70 06	150 (1231)	Banner on pole
Saw	42 03	1025 (826)	70 05	1020 (361)	Banner on pole
H.W.House	42 03	925 (926)	70 05	806 (575)	Half-way house ✓
John	42 03	832 (1019)	70 05	605 (776)	Banner on pole
Earle	42 03	498 (1353)	70 05	66 (1315)	Banner on pole
Diek	42 03	154 (1697)	70 04	983 (398)	Banner on pole

Object	Latitude	D.M.	Longitude	D.P.	Description
Highland	42 02	1756 (95)	70 04	.695 (686)	Highland Coast Guard Sta. Sig. Mast
Fred	42 02	1350 (501)	70 04	93 (1288)	Banner on pole
Tower	42 02	856 (995)	70 03	1473 (378)	N.W. Radio Tower
Tower	42 02	804 (1047)	70 03	974 (407)	S.E. Radio Tower
Tower	42 02	734 (1117)	70 03	867 (514)	N.R.C. Radio Tower ✓
Fog Horn	42 02	758 (1093)	70 03	847 (534)	Fog Horn, Cape Cod Light House ✓
Pig	42 02	388 (1463)	70 03	401 (980)	Banner on pole
Long	42 01	1605 (246)	70 02	1222 (159)	Banner on pole
Walk	42 01	1079 (772)	70 02	859 (522)	Banner on pole
Nook	42 01	467 (1384)	70 02	392 (989)	Banner on pole
* ₁ Stack	42 02	1239 (612)	70 06	416 (965)	Pumping Plant
* ₂ Dud	42 03	1032 (819)	70 08	668 (713)	Banner on pole
* ₃ Flut	42 02	913 (938)	70 11	784 (597)	Banner on pole
* ₄ H.W. House	42 04	1625 (226)	70 11	850 (531)	Half-way house ✓
Monument	42 04	1570 (281)	70 11	751 (630)	Monument
Co	42 04	1379 (472)	70 13	339 (1042)	Observation Tower, Race Point Coast Guard Station ✓

LIST OF PLANE*TABLE POSITIONS

SHEET B

Object	Latitude	D.M.	Longitude	D.P.	Description
How	41 59	1571 (280)	70 04	806 (575)	Banner on pole
Dot	41 59	852 (999)	70 04	900 (481)	Banner on pole
Muk	41 59	416 (1435)	70 04	734 (647)	Banner on pole
Jef	41 58	1592 (259)	70 04	873 (508)	Banner on pole
Dal	41 58	1082 (769)	70 04	849 (532)	Banner On pole
Pin	41 58	683 (1168)	70 04	862 (519)	Banner on pole
Sel	41 58	113 (1738)	70 04	875 (506)	Banner on pole
Rote	41 57	1645 (260) 206	70 04	860 (521)	House
Lite	41 57	1554 (297)	70 04	860 (521)	House
Barn	41 57	1468 (383)	70 04	847 (534)	Barn
Green	41 57	1114 (737)	70 04	916 (465)	Unpainted house, green blinds
Dog	41 57	886 (965)	70 04	856 (525)	Dog house
Rat	41 57	548 (1303)	70 04	855 (526)	Banner on pole
Boy	41 57	12 (1839)	70 04	902 (479)	Banner on pole
Blue	41 56	1207 (644)	70 04	735 (646)	Banner on pole
Fat	41 56	706 (1145)	70 04	692 (689)	Banner on pole
Tub	41 56	141 (1710)	70 04	612 (769)	Banner on pole
Hot	41 55	1479 (372)	70 04	572 (809)	Banner on pole

Object	Latitude	D.M.	Longitude	D.P.	Description
Mit	41 55	894 (957)	70 04	536 (847)	Banner on pole
Punk	41 55	448 (1403)	70 04	427 (954)	Banner on pole
Four	41 54	1722 (129)	70 04	484 (897)	Banner on pole
Pus	41 54	1108 (743)	70 04	503 (878)	Banner on pole
Lob	41 54	582 (1269)	70 04	481 (900)	Banner on pole
Tan	41 53	1682 (169)	70 04	461 (920)	Banner on pole
Nor	41 53	811 (1040)	70 04	371 (1010)	Banner on pole
Ded	41 53	91 (1760)	70 04	258 (1123)	Banner on pole
Gin	41 54	456 (1395)	70 04	36 (1345)	Banner on pole
Ale	41 54	1627 (224)	70 03	1314 (67)	Banner on pole
Rum	41 55	356 (1495)	70 03	509 (872)	Banner on pole
Mob	41 55	1804 (47)	70 03	1107 (274)	Banner on pole
Joe	41 55	1072 (779)	70 03	860 (521)	Banner on pole
Sor	41 55	1305 (546)	70 03	333 (1048)	Banner on pole
Clam	41 55	1496 (355)	70 02	1284 (97)	Banner on pole
Chek	41 55	1381 (470)	70 02	559 (822)	S.W. Corner Chequesset Inn Dock
Jen	41 55	1368 (483)	70 01	1170 (210)	S.E. corner of dock
Pol	41 56	332 (1519)	70 01	960 (421)	Flag pole
Tox	41 55	931 (920)	70 01	584 (797)	Banner on pole

Object	Latitude	D.M.	Longitude	D.P.	Description
Nose	41 55	341 (1510)	70 01	1274 (107)	Banner on pole
Nig	41 54	1216 (635)	70 01	580 (801)	Banner on pole
Kay	41 54	1021 (830)	70 00	1243 (138)	Banner on pole
Red	41 54	1100 (751)	70 00	447 (934)	Red Cupola ✓
Bor	41 54	1157 (694)	69 59	1149 (232)	Banner on pole
Soot	41 54	1009 (842)	69 59	894 (487)	Banner on pole
Pig	41 54	459 (1392)	69 59	1264 (117)	Flag pole
Brid	41 53	1140 (711)	70 00	320 (1061)	Banner on pole, south corner, east end of bridge
Leg	41 53	831 (1020)	69 59	1330 (51)	Banner on pole
Fol	41 53	237 (1614)	69 59	1178 (203)	Banner on pole
Trap	41 52	1740 (111)	69 59	1152 (229)	Banner on pole
Ink	41 52	1815 (36)	70 00	227 (1154)	Banner on pole
Say	41 53	1076 (775)	70 00	979 (402)	Banner on pole
Met	41 53	1147 (704)	70 00	1239 (142)	Banner on pole
Haw	41 54	77 (1774)	70 00	1201 (180)	Banner on pole
Nook	42 01	467 (1384)	70 02	392 (989)	Banner on pole
Bim	42 01	134 (1717)	70 02	240 (1141)	Banner on pole
Hal	42 00	1765 (86)	70 01	1325 (56)	Banner on pole
Vin	42 00	959 (892)	70 01	869 (512)	Banner on pole

Object	Latitude	D.M.	Longitude	D.P.	Description
Lap	42 00	572 (1279)	70 01	616 (765)	Banner on pole
Bab	42 00	309 (1542)	70 01	536 (845)	Water tank ✓
P. R., C. G. Sig. Mast	42 00	200 (1651)	70 01	702 (679)	Pamet River Coast Guard / Signal Mast
Flag	42 00	09 (1842)	70 01	320 (1061)	Flag pole, old Pamet R. ✓ Coast Guard Station
Vat	41 59	1785 (66)	70 01	313 (1068)	Wind Mill ✓
Rit	41 59	1470 (381)	70 01	91 (1290)	Banner on pole
Nop	41 59	952 (899)	70 00	1252 (129)	Banner on pole
Mar	41 59	504 (1347)	70 00	948 (433)	Banner on pole
Kam	41 58	1709 (142)	70 00	665 (716)	Banner on pole
Bun	41 58	1191 (660)	70 00	369 (1012)	Banner on pole
Half	41 58	551 (1300)	70 00	121 (1260)	Half-way house ✓
San	41 57	1849 (02)	69 59	1173 (208)	Banner on pole
Fin	41 57	1358 (493)	69 59	919 (462)	Banner on pole
Pet	41 57	778 (1073)	69 59	650 (731)	Banner on pole
Gus	41 57	386 (1465)	69 59	459 (922)	Banner on pole
Jil	41 56	1601 (250)	69 59	224 (1157)	Banner on pole
Duk	41 56	756 (1095)	69 58	1252 (129)	Banner on pole
Tar	41 56	301 (1550)	69 58	1089 (292)	Banner on pole
Nil	41 55	1763 (88)	69 58	967 (414)	Banner on pole

Object	Latitude	D.M.	Longitude	D.P.	Description
Arn	41 55	1328 (525)	69 58	834 (547)	Banner on pole
Pug	41 55	898 (953)	69 58	720 (661)	Banner on pole
Chap	41 55	428 (1423)	69 58	572 (809)	Banner on pole
Cop	41 52	305 (1546)	70 03	1376 (07)	Banner on pole

~~Co~~

~~42 04 1379 70 13 339 Observation Tower, Race
(472) (1042) Point Coast Guard Station~~

LIST OF PLANE-TABLE POSITIONS

SHEET C

returned to file

Object	Latitude	D.M.	Longitude	D.P.	Description
Ink	41 52	1815 (36)	70 00	227 (1154)	Banner on pole
^e Bar	41 52	1155 (696)	70 00	474 (907)	Banner on pole
Mop	41 52	508 (1343)	70 00	680 (701)	Banner on pole
Sin	41 51	1820 (31)	70 00	763 (618)	Banner on pole
Oak	41 51	864 (987)	70 00	630 (751)	Banner on pole
Jar	41 50	1350 (501)	70 00	479 (902)	Banner on pole
Mon	41 49	620 (1230)	70 00	328 (1053)	An historical monument
Rub	41 52	574 (1277)	70 00	787 (596)	Banner on pole

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

Field Number "B"

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

6034

Register No.

State . Massachusetts

General locality . Cape Cod

Locality Wellfleet, ~~both coasts~~ *and vicinity*

Chief of party . K. T. Adams

Surveyed by . R. K. Lynt and C. N. Strong

Date of survey June 1, 1933 to November 1, 1933

Scale . . 1 : 20,000

Heights in feet above . Mean Sea Level

Contour interval feet. **no contours**

Inked by C. N. Strong. . Lettered by W. B. Griffin.

Records accompanying sheet (check those forwarded): *Photographs*,

Descriptive report, *Notes/angles/notes/tables/computations*,

Data from other sources affecting sheet

Remarks: Descriptive Report written for combined area, sheets A, B, & C.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

Field Number "C"

This sheet returned

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No.

State Massachusetts

General locality Cape Cod

Locality South of Wellfleet - Cape Cod Bay

Chief of party K. T. Adams

Surveyed by C. N. Strong

Date of survey September 15, 1933 to November 1, 1933 ..

Scale 1 : 20,000

Heights in feet above Mean Sea Level

Contour interval feet. no contours

Inked by C. N. Strong . Lettered by W. B. Griffin

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, T.M.S. computations,

Data from other sources affecting sheet

Remarks: Descriptive Report written for combined area, sheets A, B, & C.

REVIEW OF TOPOGRAPHIC SURVEY No. 6033

Title (Par. 56) *Provincetown and vicinity, Cape Cod, Mass.*Chief of Party *N. J. Adams* Surveyed by *R. H. Lynt*
E. A. Deily Inked by *C. N. Strong*Ship *Boston*
Noj. HT 145 Instructions dated *Apr. 29, 1933* Surveyed in *May-Aug. 1933*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)
None
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) *None*
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *None submitted*
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
10. ~~The span, draw and clearance of bridges are shown. (Par. 16c.)~~
11. ~~Locations and elevations of summits are given. (Par. 19, 51.)~~
12. ~~The tree line was shown on mountains. (Par. 16g.)~~

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.
15. ^{No} The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) *See Circ. No 30 of 1933*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *Several of the landmarks listed are not plotted on the topo sheet. Determined by triangulation.*
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *No mag. meridian shown. 2 measurements by comp decl at low field and proximate magnet station.*
18. The geographic datum of the sheet is *North American* and the reference station is correctly noted. (Par. 34.) *seconds in arc only. Name of datum omitted.*
19. Junctions with contemporary surveys are adequate. ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is ^{very} good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report, ~~after review by~~
24. Remarks:

appears very complete in detail with in part

Reviewed in office by *R. J. Christman* March 24, 1934.

Examined and approved:

C. K. Green
Chief, Section of Field Records

L. O. Pollock
Chief, Section of Field Work

Chief, Division of Charts

G. W. de
Chief, Division of Hyd. and Top.

REVIEW OF TOPOGRAPHIC SURVEY No. 6034

Title (Par. 56) *Wellfleet and vicinity, Cape Cod, Mass.*

Chief of Party *K T Adams* Surveyed by ^{*RH Lynt*}*C. N. Strong* Inked by *C. N. Strong*

Ship ^{*Boston*}*Proj. HT 145* Instructions dated *Apr. 29, 1933* Surveyed in *June - Nov. 1933*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions.
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)
None
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) *None*
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *None submitted*
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
10. ~~The span, draw and clearance of bridges are shown. (Par. 16c.)~~
11. ~~Locations and elevations of summits are given. (Par. 19, 51.)~~
12. ~~The tree line was shown on mountains. (Par. 16g.)~~

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.
15. ~~The~~ ^{No} descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) *See Circ. No 30 of 1933.*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *One listed landmark determined by An is not plotted on topo sheet.*
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) ✓
18. The geographic datum of the sheet is *North American* and the reference station is correctly noted. (Par. 34.) *See. in arc only name of datum omitted*
19. Junctions with contemporary surveys are adequate. ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report, ~~after review by~~
24. Remarks:

Reviewed in office by *R. J. Christman, March 24, 1934*

Examined and approved:

E. N. Green
Chief, Section of Field Records

H. Borden
Chief, Division of Charts

L. O. Dolbert
Chief, Section of Field Work

G. H. de
Chief, Division of Hyd. and Top.

LANDMARKS FOR CHARTS

T- 6033

T- 6034

Located by Topography 1933

Name	Latitude	Meters	Longitude	Meters	Description
Shell gasoline East tank	42 03	1390 ✓ (461) ✓	70 08	1100 ✓ (281) ✓	Yellow tall steel tank
Obs.house Peaked Hill Bars C.G.Sta.	42 04	1143 ✓ (708) ✓	70 09	554 ✓ (827) ✓	White Watch House
Half-way house	42 03	925 ✓ (926) ✓	70 05	806 ✓ (575) ✓	House halfway from High Head C.G. to Highland C.G. Sta.
N.C. Radio Tower	42 02	734 ✓ (1117) ✓	70 03	867 ✓ (514) ✓	Radio Tower at Cape Cod L.H.
Fog Horn	42 02	758 ✓ (1093) ✓	70 03	847 ✓ (534) ✓	Fog Horn at Cape Cod L.H.
Half-way House	42 04	1625 ✓ (226) ✓	70 11	850 ✓ (531) ✓	House halfway from Peaked Hill Bars C.G.Sta. to Race Point C.G. Sta.
Observation Tower, Race Point C.G.STA.	42 04	1379 ✓ (472) ✓	70 13	339 ✓ (1042) ✓	White wooden house on steel tower
Red Cupola	41 54	1100 ✓ (751) ✓	70 00	447 ✓ (934) ✓	On building on North side of Blackfish Creek
Water tank	42 00	309 ✓ (1542) ✓	70 01	536 ✓ (845) ✓	Water tank north of Pamet C.G.Sta.
Pamet River C.G. Signal Mast	42 00	200 ✓ (1651) ✓	70 01	702 ✓ (679) ✓	Steel Tower at Pamet C.G.Sta.
Wind Mill	41 59	1785 ✓ (66) ✓	70 01	313 ✓ (1068) ✓	Wind Mill South of Pamet C.G.Sta.
Half-way House	41 58	551 ✓ (1300) ✓	70 00	121 ✓ (1260) ✓	House halfway from Pamet C.G.Sta. to Cahouns hollow C.G. Station
Flagpole	42 00	09 ✓ (1842) ✓	70 01	320 ✓ (1061) ✓	Flagpole old Pamet River C.G.Sta.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

1208
T-6033

LANDMARKS FOR CHARTS

Boston Field Station

February 15, 1934

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted. Arranged in the order of importance as of the area covered by each topographic sheet.

K. T. Adams Chief of Party.

DESCRIPTION	POSITION					METHOD OF DETERMINATION	CHARTS AFFECTED
	LATITUDE		LONGITUDE		DATUM		
	°	D. M. METERS	°	D. P. METERS			
Topographic Sheet "A" Pilgrim Monument-123	42-03	253.2	70-11	482.4	NA	Triang.	No. 341
Standpipe 123	42-03	298.1	70-11	803.4	NA	"	"
Brick stack 123	42-03	1451.9	70-08	971.2	NA	"	"
Stone Tower 1	42-02	138.1	70-03	473.0	NA	"	"
Lookout Tower 12	42-04	1379.	70-13	539.	NA	Topo	"
Signal Mast 1	42-03	1742.5	70-06	1218.4	NA	Triang.	"
Signal Mast 1	42-04	998.1	70-09	797.0	NA	"	"
Signal Mast 1	42-02	1752.0	70-04	704.8	NA	"	"
Signal Mast 123	42-01	478.5	70-11	739.4	NA	"	"
Brick Stack 123	42-01	1541.0	70-05	856.6	NA	"	"
Stack 3	42-03	813.0	70-10	892.8	NA	"	"
Spire (Town Hall) 3	42-03	148.0	70-11	400.3	NA	"	"
C. G. Station 1	42-02	1609.	70-04	575.	NA	Topo	"
Houses (group) 1	42-01.3		70-02.4		NA	"	No. 1208
Tanks (twin) 3	42-03	1590.	70-08	1100.	NA	"	No. 341

A list of objects carefully selected because of their value as landmarks as determined from seaward together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) off-shore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaves and like objects are not sufficiently permanent to chart.

J-6033

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

193

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

Chief of Party.

DESCRIPTION	POSITION					METHOD OF DETERMINATION	CHARTS AFFECTED
	LATITUDE		LONGITUDE		DATUM		
	°	D. M. METERS	°	D. P. METERS			
Houses (group) 2	42-00.2		70-04.8		NA	Topo	No. 341
Spire (church) 3	42-03	387.4	70-11	127.2	NA	Triang.	"
Cupola 3	4202	1598.0	70-11	796.8	NA	"	"
Signal Mast 3	42-03	394.3	70-11	434.0	NA	"	"
Radio Mast 123	42-02	656.2	70-03	997.2	NA	"	"
Radio Mast 123	42-02	802.5	70-03	968.6	NA	"	"
Radio Mast 123	42-02	734.	70-03	867.	NA	Topo	"
Fog Horn Bldg 1	42-02	758.	70-03	847.	NA	"	"
Spire (church) 3	42-03	64.2	70-11	460.8	NA	Triang.	"
Spire (church) 3	42-03	124.3	70-11	405.4	NA	Triang	"
Stack 3	42-02	1837.7	70-11	442.9	NA	"	"
Stack 3	42-02	1666.1	70-11	495.3	NA	"	"
Stack 3	42-02	1376.4	70-11	709.7	NA	"	"
Stack 3	42-02	1319.0	70-11	746.2	NA	"	"
Signal Mast 12	42-04	1344.8	70-13	360.3	NA	"	"

A list of objects carefully selected because of their value as landmarks as determined from seaward together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaves and like objects are not sufficiently permanent to chart.

T-6034

LANDMARKS FOR CHARTS

193

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

Chief of Party.

DESCRIPTION	POSITION					METHOD OF DETERMINATION	CHARTS AFFECTED
	LATITUDE		LONGITUDE		DATUM		
	°	D. M. METERS	°	D. P. METERS			
Lookout Tower 1	42-04	1143.	70-09	554.	NA	Topo	No. 341
Stack 3	42-02	1245.0	70-06	429.6	NA	Triang	"
Topographic Sheet "B"							
Spire (church) 23	41-58	1292.9	70-04	113.1	NA	Triang.	No. 341
Flagpole 1	42-00	1640.5	70-02	148.0	NA	"	1208
Firetower 123	41-55	353.7	70-00	619.2	NA	"	340
Flagpole (C.G.) 1	41-56	1163.3	69-59	99.1	NA	"	1208
Flagpole (C.G.) 1	42-00	9.0	70-01	320.0	NA	"	"
Signal Mast 1	42-00	200.	70-01	702.	NA	Topo	"
Houses (group) 1	42-01.3		70-02.4		NA	"	"
Spire (church) 3	41-56	631.1	70-01	1007.0	NA	Triang.	340
Belfry (church) 3	41-56	607.2	70-01	1127.4	NA	"	"
Cupola 3	41-54	1414.5	70-00	1087.1	NA	"	"
Cupola 3	41-54	1100.	70-00	447.	NA	Topo	"

A list of objects carefully selected because of their value as landmarks as determined from seaward together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it: for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

T 6034

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

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DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

Chief of Party.

DESCRIPTION		POSITION				DATUM	METHOD OF DETERMINATION	CHARTS AFFECTED
		LATITUDE		LONGITUDE				
		°	D. M. METERS	°	D. P. METERS			
Spire (church)	2	41-59	1667.4	70-03	423.6	NA	Triang.	No. 341
Spire (Town Hall)	2	41-59	1666.7	70-03	567.3	NA	"	"
Tank	1	42-00	309.	70-01	536.	NA	Topo.	1208
Windmill	1	41-59	1785.	70-01	313.	NA	"	"
Tanks (twin)	3	41-55	1594.0	70-02	492.4	NA	Triang.	340
Signal Mast	1	41-50	1220.6	69-56	1079.5	NA	Triang.	No. 1208
Stone Tower	2	41-44	687.8	70-10	1151.7	NA	"	"
Flagpole	2	41-46	321.7	70-04	1159.3	NA	"	"
Stack	2	41-45	470.1	70-09	131.7	NA	"	"
Silo	1	41-51	149.1	69-57	1255.7	NA	"	"
Cupola (Town Hall)	2	41-49	1597.8	69-58	746.0	NA	"	"
Spire (church)	2	41-45	1333.3	70-04	1322.5	NA	"	"
Monument	2	41-45	1301.0	70-05	1209.5	NA	"	"

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