DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Massachusetts

DESCRIPTIVE REPORT.

Topographic Sheet No. C 4395

Locality:

Cape Ann

Rockport Harbor

1938

Chief of Party:

Raymond P. Eyman
DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET "C"

(1) Authority
This survey was made under instructions in the Director's orders dated May 22, 1928, to Lieut. R. F. Hyman, Chief of Party, Gloucester Shore Party.

(2) Locality and Limits.
This sheet is in the vicinity of Rockport Harbor, Rockport, Mass. The northern extremity is a point 630 meters north of Rockport Granite Co., Chv, on Dock (1916).
The eastern extremity is a point 230 meters south of the northern tip of Gap Head.

(3) Control.
The control for this survey consisted of third order triangulation stations established during 1916 and one established in 1902. No triangulation stations were established by this survey in this vicinity.

(4) Survey Methods.
Ordinary Plane table methods were used in this survey. Each set up whenever possible, being checked by a three point fix and the error adjusted before proceeding to the next set up.
The traverse was started from a point 39 meters northwest of Beck where a three point fix was obtained. The traverse ran to the extremities of the sheet from this point.
The extremities of this survey were checked by a three point fix and at the eastern extremity a distance was used to Rockport L.S.S. Iron Tower (1916) and found alright.

(5) General Description.
The shore line is mostly of rocky ledge formation, with a few gravel and boulder strewn beaches.

At the northern extremity the shore line is of rocky ledge which is finnally runs out to a mere reef line at a point 400 meters north of Rockport Granite Co., Chv, on Dock (1916) with a boulder strewn beach. At a point 146 meters south of this point there is a built up wall of granite, about 20 ft. high and in the near vicinity the granite quarries start dumping rip rap rock along the shore line. This dump line runs out to a point of land and joins onto the quarry Co's dock. South of the docks is a gravel beach which soon runs into low reef and ledge formation. A small indenture is made about 230 meters southwest of the southern tip of Sandy Bay Ledge.
This indenture is a lobster pond maintained by several lobstermen. To the south of this pond is a gravel beach which turns to ledge at a point about 120 meters west of \( \Theta \text{Os} \) and continues thus to a point 75 meters north of Wooden Hose Tower (1916) where a sand beach starts in, but soon turns to gravel and strewn boulders. The small built up harbor 35 meters west of \( \Theta \text{Toy} \) has a granite wall through, the shore line continues as a boulder strewn ledge formation around \( \Theta \text{Besck} \) and into the harbor. The docks were originally all stone piers but have now been faced with pilings. The shore line starts in with the same ledge formation at a point about 47 meters south of \( \Theta \text{End} \) and continues as a rock bound coastline to the end of the survey on this sheet. There is one small beach of sand, gravel and a few boulders 225 meters southeast of \( \Theta \text{Flag} \).

The streets near the waterfront were checked up and changes noted. In most instances roads and streets follow very closely the old survey.

(6) **Comparison with former surveys.**

The new survey shows some delination from the shore line of the former survey, but in most cases, the changes seem to have really occurred. At a point 185 meters southeast of Rockport Granite Co., Chy., on Dock (1916) the new survey extends in a southeasterly direction a distance of 40 meters, but at this point there has been a constant dumping of granite chippings so that the change is quite possible.

The docks of the Rockport Granite Co. have moved southeasterly some 45 meters and along the coast towards \( \Theta \text{Orb} \) there is a marked change in position and all in the next direction or approximately so.

The general outline and positions of the docks in the harbor proceed very closely those of the former survey. In the case of \( \Theta \text{Wharf} \) the new survey shows that the face of the dock extends northeasterly about 10 meters, but this change is possible as a new face was built to front the old dock and very likely took place since the former survey was made.

(7) **Recoverable Signals.**

A list of recoverable signals accompanies this report.

(8) **Scale.**

The scale of this sheet is 1 to 5000.

Respectfully submitted,

Leonard C. Johnson,
Lt.(j.g.) U.S.C.& G.Survey,
Topographer.
SUPPLEMENT

to accompany

DESCRIPTIVE REPORT

of

TOPOGRAPHIC SHEET "C"

The most conspicuous landmarks along the outside shore line north
and west of Salt Island and running north to Emerson Point.
These landmarks are far from satisfactory as a signal for off lying
vessels but they are the most prominent ones along this coast and in the
near vicinity.
A red roofed house, set back about 175 meters from the high water
line and about 90 ft. above, is conspicuous to vessels approaching
Thacher Il., from the south;
Lat. 42 - 37 - 736 meters
Long. 70 - 37 - 784 "
A green colored house on Briar Neck about 120 meters inshore and
about 60 ft. above high water:
Lat. 42 - 37 - 980 meters
Long. 70 - 37 - 272 "
A grey stone house on Long Beach about 20 meters inshore and 60
feet above high water:
Lat. 42 - 38 - 194 meters
Long. 70 - 36 - 408 "
A green colored house near the southwestern tip of Emerson pt.
about 50 meters inshore, very close to C.G. station and about 40 ft.
above high water.
Lat. 42 - 38 - 266 meters
Long. 70 - 35 - 1150 "
These objects were located by sextant angles, three point fixes
and cuts.
<table>
<thead>
<tr>
<th>Object and description</th>
<th>Remarks</th>
<th>Latitude</th>
<th>D. M.</th>
<th>Longitude</th>
<th>D.P.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cupola on small round house</td>
<td>On end of breakwater</td>
<td>42 39.5</td>
<td>208</td>
<td>70 37</td>
<td>426</td>
</tr>
<tr>
<td>Skeleton iron light structure</td>
<td></td>
<td>42 39.5</td>
<td>273</td>
<td>70 36.5</td>
<td>335</td>
</tr>
<tr>
<td>Granite post bit</td>
<td>Inner one of series on dock</td>
<td>42 39.5</td>
<td>138</td>
<td>70 36.5</td>
<td>606</td>
</tr>
<tr>
<td>N.E. corner of stone pier</td>
<td></td>
<td>42 39.5</td>
<td>144</td>
<td>70 36.5</td>
<td>551</td>
</tr>
<tr>
<td>Granite post bit</td>
<td>Outer one of series on N.W. arm of Tee dock</td>
<td>42 39.5</td>
<td>85</td>
<td>70 36.5</td>
<td>590</td>
</tr>
<tr>
<td>Outer corner of Tee dock</td>
<td>S.E. corner</td>
<td>42 39.5</td>
<td>34</td>
<td>70 36.5</td>
<td>542</td>
</tr>
<tr>
<td>Inner corner of Tee dock</td>
<td>S. corner of S.E. face</td>
<td>42 39.5</td>
<td>8</td>
<td>70 36.5</td>
<td>576</td>
</tr>
<tr>
<td>Tall red brick stack</td>
<td></td>
<td>42 39</td>
<td>906</td>
<td>70 36.5</td>
<td>636</td>
</tr>
<tr>
<td>Prominent tall flag pole</td>
<td>Commercial Cable Co. yard</td>
<td>42 39</td>
<td>832</td>
<td>70 36.5</td>
<td>514</td>
</tr>
<tr>
<td>Center of large green round house</td>
<td></td>
<td>42 39.5</td>
<td>80</td>
<td>70 36.5</td>
<td>394</td>
</tr>
<tr>
<td>Small flag pole on cliff</td>
<td></td>
<td>42 39.5</td>
<td>144</td>
<td>70 36.5</td>
<td>181</td>
</tr>
<tr>
<td>White, small iron cross on head land</td>
<td>About 4 ft. tall</td>
<td>42 39.5</td>
<td>292</td>
<td>70 35.5</td>
<td>390</td>
</tr>
</tbody>
</table>
LANDMARKS FOR CHARTS

Washington D. C.
March 12, 1929

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.

![Signature]

Raymond P. Ewing
Chief of Party.

Sheet No. 4395

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Datum</th>
<th>METHOD OF DETERMINATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black Water Tank</td>
<td>42.38</td>
<td>1267.9</td>
<td>70.37</td>
<td>1073.7</td>
<td>N.A. (1902)Δ</td>
</tr>
<tr>
<td>Red Brick Stack (Red.)</td>
<td>42.39</td>
<td>906</td>
<td>70.36</td>
<td>1319</td>
<td>&quot;&quot;</td>
</tr>
<tr>
<td>Red Roofed House</td>
<td>42.37</td>
<td>792</td>
<td>70.37</td>
<td>784</td>
<td>&quot;&quot;</td>
</tr>
<tr>
<td>Green Colored House</td>
<td>42.37</td>
<td>980</td>
<td>70.37</td>
<td>272</td>
<td>&quot;&quot;</td>
</tr>
<tr>
<td>Grey Stone House</td>
<td>42.38</td>
<td>194</td>
<td>70.36</td>
<td>408</td>
<td>&quot;&quot;</td>
</tr>
<tr>
<td>Green Colored House</td>
<td>42.38</td>
<td>266</td>
<td>70.35</td>
<td>1150</td>
<td>&quot;&quot;</td>
</tr>
</tbody>
</table>

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached to the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter: C

REGISTER NO. 4395

State: Massachusetts

General locality: Cape Ann

Locality: Rockport Harbor and Vicinity

Scale: 1:5000

Date of survey: August 1928

Vessel: U. S. C. & G. S. L. #65

Chief of Party: Raymond P. eyman. H. & C. E.

Surveyed by: L. C. Johnson

Inked by: L. C. J.

Heights in feet above ground to tops of trees

Contour Approximate contour Form line interval: feet

Instructions dated: May 22, 1928

Remarks:

U. S. GOVERNMENT PRINTING OFFICE, 1928

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