Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: New Hampshire

DESCRIPTIVE REPORT
Topographic Sheet No. "4424"
Hydrographic

LOCALITY
Newburyport
Hampton Harbor

1928

CHIEF OF PARTY
C. K. Green
DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET # 2

Instructions dated - August 1, 1928. (M.E. Finnegan)

GENERAL DESCRIPTION OF COAST
At the northern limits of the sheet, Great Boars Head with the standpipe, is the most prominent landfall.
Hampton Beach is a summer resort with prominent buildings and houses, extending from Great Boars Head to Hampton Harbor.
The entrance to Hampton Harbor or river is approximately 150 meters wide and bridged by a wooden trestle. Hampton Harbor is very shoal. At low water, tidal flats bare over the entire harbor with the exception of two or three channels and a small area just inside the bridge. The harbor is surrounded by low marsh land.

There are several groups of rocks in the vicinity of the entrance.
Town Rocks, on the north side of the entrance, cover at high water, but are awash at half tide. Gun Rocks, on the south side of the entrance, are partly bare at high water. White Rocks and Round Rock have elevations from five to ten feet and form the outer end of the southern side of the entrance.

From the entrance southward, the shoreline is made up of sand beach with small sand dunes in the background. Thomas Rock is awash at ½ tide. There are a number of houses near the southern limits of the sheet.
The reef off the entrance, made up of two groups of rocks, is about ½ mile in length and extends in a northeasterly and southwesterly direction. Rocks awash can be seen in this reef at almost every stage of tide below high water.

LANDMARKS
In addition to the standpipe at Great Boars Head, the dark church spire at Hampton Beach can be listed. (See list on form 567).

CHARACTER OF CONTROL USED
Station "Entrance" was located on Round Rock by using stations "Hampton Falls, 1850" and "Boars Head, standpipe, 1912" with a check on "Salisbury Beach L.S.S., flagpole, 1912". Two additional intersection stations were located, "Casino, cupola 1912" and "Salisbury Marsh, monument 1854" were recovered, the latter to end the traverse at the southern limits of the work.

CLOSING ERRORS OF TRAVERSE
No unusual errors were encountered. Traverses, starting at station "Entrance", were run northward to the Standpipe and southward to Salisbury Marsh monument. The allowable errors were not exceeded in either case.
The shoreline and topography of the harbor was run in by short traverses and three point fixes.

AUXILIARY METHODS
Sextant fixes were used in locating the rocks and the extent of the off-lying reef. Four angles were taken at each fix. These were plotted on the sheet in the field.

FORM LINES
No actual elevations were determined and no form lines drawn on this sheet.
CHANGES IN PROMINENT AND OFF-LYING FEATURES

Considerable care was taken in locating the rocks in the reef known as Sunk Rocks. These were visited at low water. While every rock was not definitely located, the most important and limiting ones are shown.

Their location, as determined in this survey, checks favorably with that shown on topographic sheet 855. As the rocks are not completely shown and only by sunken rock symbols on the old sheet, accurate comparison could not be made.

Attention is called to the rocks near the high water line some 360 meters ESE of Dark Church Spire. The large rock is not shown in the previous surveys. Sunken rock symbols are shown on topographic sheet 1023 approximately 90 meters north of the group of rocks located in this survey. No rocks were found to correspond with the old position.

CHANGES IN COASTLINE

Extensive changes have occurred in the coastline at the entrance to Hampton Harbor. On topographic sheet 835, survey made in 1855, the channel is shown between Gun Rocks and Round Rock, running in a northeasterly and southwesterly direction. On topographic sheet 835A, revision made in 1912, the channel is shown to the southwest of White Rocks, running in a southeasterly and northwesterly direction with a point built out to White Rocks from the north side. The channel is now to the northward of White Rocks with a sand flat extending out in a southeasterly direction from Town Rocks. It is estimated that the maximum height of this sand flat or bar above low water is three feet.

Rapid and extensive changes are frequent in the vicinity of the entrance due to strong tidal currents and occasional heavy northeast storms. Some changes were noted while the survey was in progress.

The shoreline at the limits of the survey agrees with that of previous surveys.

NEW NAMES

New names added are, Gun Rocks, Inner Sunk Rocks, and Outer Sunk Rocks. These names were obtained through local inquiry.

MISCELLANEOUS NOTES

The low water line as determined on the topographic sheet does not check entirely with that shown on the hydrographic sheet. The topographic low water line in nearly all cases, is beyond the hydrographic low water line, which is probably due to the fact that the topographic low water line was determined at a stage of tide somewhat below mean low water.

The houses, with the exception of the larger buildings shown on the sheet, were not definitely located. After the streets had been located, these houses were placed by inspection according to the number in each block.

The sheet now shows a distortion of about 15 meters per mile in both directions.

Through:

Chief of Party.

Respectfully submitted,

Jr. H. & C. Eng'r.

[Handwritten signatures]

[Handwritten note on the bottom of the page]
<table>
<thead>
<tr>
<th>Object</th>
<th>Hydro. Name</th>
<th>Latitude</th>
<th>D. M.</th>
<th>Longitude</th>
<th>D. P.</th>
<th>Height</th>
<th>Remarks &amp; Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tower</td>
<td></td>
<td>42 - 54</td>
<td>1111</td>
<td>70 - 48</td>
<td>1093</td>
<td>40</td>
<td>Center of white square tower, top.</td>
</tr>
<tr>
<td>Hut</td>
<td></td>
<td>42 - 54</td>
<td>641</td>
<td>70 - 49</td>
<td>116</td>
<td>20</td>
<td>W. Gable black tar paper covered house.</td>
</tr>
<tr>
<td>Cor</td>
<td></td>
<td>42 - 54</td>
<td>409</td>
<td>70 - 48</td>
<td>937</td>
<td>------</td>
<td>N.E. corner of house near H.W. line.</td>
</tr>
<tr>
<td>Lot</td>
<td></td>
<td>42 - 53</td>
<td>1828</td>
<td>70 - 48</td>
<td>1033</td>
<td>8</td>
<td>Southwest end of double row of piling.</td>
</tr>
<tr>
<td>Bel</td>
<td></td>
<td>42 - 54</td>
<td>140</td>
<td>70 - 48</td>
<td>1167</td>
<td>------</td>
<td>S. Gable of attic window on S. roof of yeallow house.</td>
</tr>
<tr>
<td>Tow</td>
<td></td>
<td>42 - 53</td>
<td>1808</td>
<td>70 - 48</td>
<td>1254</td>
<td>------</td>
<td>Center of square tower on S.E.cor.of small brown house</td>
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<tr>
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<td></td>
<td>42 - 53</td>
<td>1698</td>
<td>70 - 49</td>
<td>16</td>
<td>10</td>
<td>White toll house on north end side of bridge.</td>
</tr>
<tr>
<td>Cal</td>
<td></td>
<td>42 - 54</td>
<td>73</td>
<td>70 - 49</td>
<td>149</td>
<td>------</td>
<td>S.W.Gable of yellow house with red roof.</td>
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<tr>
<td>Kat</td>
<td></td>
<td>42 - 54</td>
<td>227</td>
<td>70 - 49</td>
<td>614</td>
<td>2</td>
<td>Banner on stick.</td>
</tr>
<tr>
<td>Sig</td>
<td></td>
<td>42 - 53</td>
<td>1523</td>
<td>70 - 49</td>
<td>937</td>
<td>3</td>
<td>Banner on stick.</td>
</tr>
<tr>
<td>Gray</td>
<td></td>
<td>42 - 53</td>
<td>1061</td>
<td>70 - 50</td>
<td>53</td>
<td>10</td>
<td>N. Gable of gray shack.</td>
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<tr>
<td>Red</td>
<td></td>
<td>42 - 53</td>
<td>808</td>
<td>70 - 49</td>
<td>1383</td>
<td>10</td>
<td>N.Gable of red shack.</td>
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<tr>
<td>Post</td>
<td></td>
<td>42 - 53</td>
<td>486</td>
<td>70 - 49</td>
<td>705</td>
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<td>Post with banner.</td>
</tr>
<tr>
<td>Wit</td>
<td></td>
<td>42 - 53</td>
<td>683</td>
<td>70 - 49</td>
<td>207</td>
<td>------</td>
<td>White toll house on south end of bridge.</td>
</tr>
<tr>
<td>Chimney</td>
<td></td>
<td>42 - 53</td>
<td>1026</td>
<td>70 - 48</td>
<td>1044</td>
<td>------</td>
<td>Chimney on the east end of Beckman's cottage.</td>
</tr>
<tr>
<td>End</td>
<td></td>
<td>42 - 53</td>
<td>50</td>
<td>70 - 49</td>
<td>37</td>
<td>------</td>
<td>Chimney on most northerly of row of beach houses.</td>
</tr>
<tr>
<td>Hot</td>
<td></td>
<td>42 - 52</td>
<td>1519</td>
<td>70 - 49</td>
<td>41</td>
<td>------</td>
<td>Center of white house.</td>
</tr>
</tbody>
</table>
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 No. 2

REGISTER NO. 4424

State New Hampshire

General locality Newburyport

Locality Hampton Harbor

Scale 1 - 10,000 Date of survey September 1928

Vessel Launch Ogden Shore Party

Chief of Party C. K. Green

Surveyed by C. F. Ehlers

Inked by C. F. Ehlers

Heights in feet above to ground to tops of trees

Contour Approximate contour Form line interval feet

Instructions dated August 1 1928

Remarks Revision Survey