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<th>Field No.</th>
<th>Ph-14(46)</th>
<th>Office No.</th>
<th>T-9293</th>
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</table>

**Type of Survey**  
SHORELINE

**State**  
TEXAS

**General locality**  
GULF INTRACOASTAL WATERWAY

**Locality**  
SHAN LAKE TO RED FISH BAYOU

**1947**

**CHIEF OF PARTY**  
R.A. Gilmore, Chief of Field Party  
T.P. Reed, Baltimore Photogrammetric Office

**DATE**  
June - 19-1953
DATA RECORD

T - 9293

Project No. (II): PH-14(46) Quadrangle Name (IV):

Field Office (II): Port Lavaca, Texas Chief of Party: Ross A. Gilmore
Photogrammetric Office (III): Baltimore, Maryland Officer-in-Charge: Thos. B. Reed

Instructions dated (II) (III): (no date); Supplement 1, 22 July 1947 Letters dated 5 June 1947, 29 July 1947, 4 February 1949. Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.0000

Date received in Washington Office (IV): 8-1-49 Date reported to Nautical Chart Branch (IV): 8-9-49

Applied to Chart No. Date: Date registered (IV): 20 April 1949

Publication Scale (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III): M.H.W.

Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): KBG, 1934

Lat.: 28: 54'48.290" (1486.7m) Long.: 95° 20' 32.344" (876.2m) Adjusted

Plane Coordinates (IV):

State:
Zone:

Y =
X =

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.
Areas contoured by various personnel
(Show name within area)

(II) (III)

shoreline
DATA RECORD

Field Inspection by (II): Boynton Locke, Jr. Date: Nov. 1947

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): Same as date of photographs Located on field photographs

Projection and Grids ruled by (IV): On original manuscript Date: 1934

Projection and Grids checked by (IV): Date:

Control plotted by (III): Date:

Control checked by (III): Date:

Radial Plot by (III): Frank J. Tarcza Date: March 1949

Stereoscopic Instrument compilation (III): Planimetry

Contours

Manuscript delineated by (III): Ruth R. Hartley Date: 4/8/49 - 6/14/49 6/29/49-7/7/49

Photogrammetric Office Review by (III): J.W. Vrnasek Date: 7/14/49-7/22/49

Elevations on Manuscript checked by (II) (III): Date:

Form T. Page 3

M-2618-12/49
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1 FT. = 0.3048005 METER

COMPUTED BY: J.W. Vonasek DATE 25 July 1949

CHECKED BY: Ruth R. Hartley DATE 28 July 1949
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1 FT - 0.3048006 METER
COMPUTED BY: J.W. VONASEK DATE: 25 July 1949
CHECKED BY: Ruth R. Hartley DATE: 28 July 1949
Field Inspection Report
Shoreline Survey    T-9293

Refer to the special reports for project Ph-14
(46), locality of Port Arthur, Texas, to Cedar Lakes,
Texas; and Cedar Lakes, Texas to Aransas Pass, Texas,
submitted by Ross A. Gilmore, Chief of Party, January
1948, filed in the Division of Charts as Chart Letter
L-84(48) and Chart Letter L-150 (48) respectively.
21. AREA COVERED

This radial plot covers that part of Survey T-929 which lies from the area between the (now) Brazos River and the mouth of Oyster Creek, along the Intracoastal Waterway, southwest of Galveston, Texas.

22. RADIAL PLOT

Map Manuscript. A red line print, on acetate, of Survey T-5362 (1934), at a scale of 1:20,000, was furnished by the Washington Office. All control was on the manuscript except Sub. Sta. MULE, 1934 which was established in 1947 and was plotted graphically on the map manuscript for this radial plot.

Photographs

The photographs used in this radial plot are all nine lens photographs, scale 1:10,000, taken with the USC&GS nine lens camera, focal length 3\textfrac{1}{2} inches. 8 photographs were used, numbered as follows:

18380 to 18384 incl.
18387 to 18389 incl.

All photographs were later reduced to a 1:20,000 scale for use by compilers but reductions of them were not available for use in the radial plot.

Preparation of Photographs

All identified control stations were added to photographs first and conjugate centers pricked. Before any pass points were pricked, photographs were compared with old red line survey for common detail points which appeared to remain unchanged since former survey was made. These common details were pricked and used as pass points and other pass points added where needed to complete the radial plot.

The symbols for pass points and control stations used on the photographs are in accordance with Photogrammetry Instructions No. 12, dated 17 March 1947.

Templets

Vynlute templets were made from all nine-lens photographs using the master templet furnished by the Washington Office to correct for paper distortion and transforming errors. Since the map manuscript is at a scale of 1:20,000 and photographs at 1:10,000, it was necessary to make templets at 1/2 scale of photographs. This was done by taping templets to master templet, making proper adjustment in each chamber and drawing radial lines at a point about half-way toward the center.
22. RADIAL PLOT (Continued)

Closure and Adjustment to Control
The radial plot was laid on the red line acetate sheet since the primary purpose of the plot was to check the accuracy of detail of the old survey. Common detail points used in the radial plot and appearing to be the same points on the manuscript, were circled on the manuscripts with washable green ink before plot was laid. Then templet were adjusted using control only to adjust each, wherever possible. All control stations were held and no difficulty was encountered in laying any of the templets. The areas east of Oyster Creek and west of Brazos River were not covered by the plot because there was no control in those areas. The plot was not extended beyond good fixes at each of the streams. There is no other red line sheet to the northeast, this area being covered by a shoreline survey T-8950 (1946) at a scale of 1:10,000. On the adjacent survey to the west there is not a satisfactory fix to which this plot could be extended.

Transfer of photogrammetric points
In the area of Big Bend of (Old) Brazos River there is considerable change in detail and no common points could be found on manuscript and photographs. Pass points used in this plot were transferred by pricking directly on back of manuscript on which the radial plot had been laid.

23. ADEQUACY OF CONTROL

There was abundant control within the area covered by the radial plot. All control stations identified by the field party were used and held.

24. SUPPLEMENTAL DATA

None used for radial plot.

25. PHOTOGRAPHY

The coverage and definition of photographs were adequate. No badly tilted photographs were found. The scale of photographs was 1:10,000 which is twice the manuscript scale. This involved additional work in making 1/2 scale templets but no unusual difficulty was encountered. Photographic reductions were later made of all photographs used.

26. The purpose of the radial plot was to check the accuracy of positions of detail on the old survey, completed about 1934. The positions of common detail points established by the radial plot checked the positions on the old Survey T-5362 within 0.2 mm or 0.3 mm in all cases noted. The positions of detail on the old survey are considered to be within the accuracy required and any changes and revisions can be made using common unchanged detail points as control for delineation. As mentioned previously, the area near Big Bend of (Old) Brazos River was devoid of common points. In this area
25. PHOTOGRAPHY (Continued)

Pass point positions were transferred from the radial plot. However, with such abundant control available, these positions could have been established by the compiler by orienting photograph reductions with existing control stations and cutting in the points directly on the map manuscript.

A number of stations were not identified by the field inspection party. These stations are mainly in the area east of Oyster Creek where this plot was not extended due to lack of identified control. Since there was probably sufficient control in that area for the previous survey, it is believed that the accuracy in that area is adequate for using detail for control by the compiler in making revisions.

Respectfully submitted
26 July 1949.

[Signature]
Frank J. Tarcza
Cartographic Engineer

Approved and forwarded
29 July 1949

[Signature]
Thos. B. Reed
Officer in Charge
Baltimore Photogrammetric Office
COMPILATION REPORT
SURVEY NO. T-9293

This manuscript is one of a series of surveys in Project No. Swan Lake PH-14(46) and covers the area along the Intracoastal Waterway from Gray to Red Fish Bayou, Texas. T-9293 is a revision of T-5362 (1934).

31. DELINEATION

The manuscript was delineated by graphic methods only.

The compilation was accomplished by holding the detail common to the red line print of T-5362 (1934) and to the photograph reductions and making any necessary changes. In some instances, common detail no longer existed and points had to be cut in. In general, it was more difficult, because of so many changes, to revise the red line print than to have compiled a new manuscript.

Field inspection of the interior was inadequate. In most cases, there was none at all.

North of East Union Bayou and in the vicinity of Velasco, the photographs were so clouded that it was impossible to finish all the detail in those areas.

Aids to navigation were not pricked on the photographs before they were reduced. The reduced photographs were much darker than the original making it difficult to prick the aids accurately. Positions verified during Review.

The manuscript has been revised only as far as photographic coverage would permit. A purple line has been shown on the manuscript as a limiting line of revision.

32. CONTROL

With the exception of the area west of Brazos River, the identification, density, and placement of horizontal control was adequate. In the excepted area, points of common detail were used to control the position of changes.

There is no information regarding seven horizontal and two vertical control stations shown on the red line print. See Review Report, Item 67.

33. SUPPLEMENTAL DATA

A negative of Topographic Survey 6610 (1937), scale 1:10,000, with the locations of floating aids to navigation at Freeport Entrance added by planetable survey in November 1947, was used to plot the aids. The buoys were transferred to the manuscript by taking cuts from the projection lines.
33. SUPPLEMENTAL DATA

The following were furnished as geographic name standards:

Lithographic copy of T-5362 (1934)
War Department, Corps of Engineers, U.S. Army, Freeport quadrangle, scale 1:31,680, Edition of 1943
Army Map Service, Jones Creek Quadrangle, scale 1:25,000

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection is considered adequate, although some portions of the shoreline required careful office interpretation. See Item 66 in Review Report.

Much change in the shoreline has occurred since the 1934 survey and there was little common detail to use as a guide for the new shoreline. Almost no original shoreline remains and new portions of the Intracoastal Waterway have been made.

Near the mouth of Oyster Creek and around Swan Lake, the field inspection shows the mean high water line with mud directly behind. These areas have been shown on the manuscript as marsh to conform with the standard symbols. Replaced by mud symbol during review.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

Three new landmarks were recommended by the field party. Two landmarks to be deleted were indicated on a chart section submitted by the 1947 field party in its special report.

Forms 567 for landmarks, nonfloating aids, and floating aids to navigation are attached to this report. The positions of the floating aids at Freeport Entrance were transferred from a negative of Topographic Survey 6610 (1937) on which the aids had been located by planetable methods in 1947. See Item 68 in Review Report.
38. **CONTROL FOR FUTURE SURVEYS**

Thirteen recoverable topographic stations shown on the original red line prints have been left on the manuscript. No information was furnished for these stations. Several stations were removed that no longer exist. See item 67 in Review Report.

Forms 524 are being submitted for eight recoverable topographic stations, six recovered stations (which are also nonfloating aids to navigation) and one station that was lost.

39. **JUNCTIONS**

Junction to the west with Survey No. T-9291 has been made and is in agreement.

Junction to the east with Survey No. T-8950 (scale 1:10,000) has been made and is in agreement.

40. **HORIZONTAL AND VERTICAL ACCURACY**

Noncomment.

41. through 45

Inapplicable.

46. **COMPARISON WITH EXISTING MAPS**

This manuscript was compared with the following Army Map Service quadrangles, scale 1:25,000, editions of 1943, 1947.

- Freeport, Texas, 6941 IV NE Series V882
- Jones Creek, Texas 6941 IV NW Series V882
- Cedar Lakes East, Texas, 6941 IV SW Series V882

The manuscript is in good agreement with the above quadrangles.

This manuscript has also been compared with previous Survey No. T-5362 (1934) of this Bureau.

47. **COMPARISON WITH NAUTICAL CHARTS**

Comparison was made with Chart No. 593, scale 1:20,000, edition of January 1944 corrected to April 25, 1949.

**Items to be applied to nautical charts immediately:**

- Wreck located at latitude 28°54.5'
  longitude 95°21.8'

**Items to be carried forward:**

None.

Respectfully submitted;

[Signature]
Cartographic Draftsman

Approved and forwarded 7/29/49

[Signature]
Officer in Charge
Baltimore Photogrammetric Office
PHOTOGRAMMETRIC OFFICE REVIEW

1. Projection and grids
2. Title
3. Manuscript numbers
4. Manuscript size

CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy
6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)
7. Photo hydro stations
8. Bench marks
9. Plotting of sextant fixes
10. Photogrammetric plot report
11. Detail points

ALONGSHORE AREAS
12. Shorelines
13. Low-water line
14. Rocks, shoals, etc.
15. Bridges
16. Aids to navigation
17. Landmarks
18. Other alongshore physical features
19. Other alongshore cultural features

(Nautical Chart Data)

PHYSICAL FEATURES
20. Water features
21. Natural ground cover
22. Planetary contours
23. Stereoscopic instrument contours
24. Contours in general
25. Spot elevations
26. Other physical features

CULTURAL FEATURES
27. Roads
28. Buildings
29. Railroads
30. Other cultural features

BOUNDARIES
31. Boundary lines
32. Public land lines

MISCELLANEOUS
33. Geographic names
34. Junctions
35. Legibility of the manuscript
36. Discrepancy
37. Descriptive Report
38. Field inspection photographs
39. Forms

Reviewer
Joseph Vomelk

Supervisor
Joseph Stimpson

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

Supervisor

43. Remarks:
41. REMARKS

1. The projection is the same as on the printed survey No. T-5362. There is no state grid on Survey T-9292.

5. No control stations were plotted. They were already printed on T-5362( ).

7,8,9. None of these features appear on the sheet.

13. No LWL was furnished.
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by K. N. MAKI

S. V. GRIFFITH

Chief of Party.

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
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<th>LONGITUDE</th>
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
I recommend that the following objects which have [have been] been inspected from seaward to determine their value as landmarks be charted on [hatched] the charts indicated.

The positions given have been checked after listing by [R. N. Makt]

S. V. GRIFFITH
Chief of Party.

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TO BE CHARTED

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by K. N. Makl

S. V. Griffith
Chief of Party.

<table>
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<td>Freeport Municipal Water Tank</td>
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<tr>
<td>East Freeport Stafford Chem. Co. Tank</td>
<td>95 ft.</td>
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I recommend that the following objects which have been inspected from seaward to determine their value as landmarks, be charted on the charts indicated.

The positions given have been checked after listing by

| State   | Position | Charting Name | Description | Signal Name | Latitude | Longitude | Datum | Method Location and Survey No. | Date of Location | Harpers Chart | Offshore Chart | Charts Affected |
|---------|----------|---------------|-------------|-------------|----------|-----------|-------|--------------------------------|-----------------|---------------|---------------|----------------|----------------|
| TEXAS   |          | TANK          | Elevation steel green - 134' high | 28 56 899 95 19 768 | N.A. Rad.Plot | 1927 | F-9290 | 1947 | 593 1283 | 593 1283 | |
|         |          | TANK          | Elevation steel green - 134' high | 28 56 1412 95 19 483 | | | | | | | |
|         |          | TANK          | Elevation steel silver - 100' high | 28 57 1003 95 21 1151 | | | | | | | |

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks, be charted on the charts indicated.

The positions given have been checked after listing by

Joseph W. Vonasek

Thos. B. Reed
Chief of Party.

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
</tr>
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<tbody>
<tr>
<td>Freeport Entrance Lighted Buoy 2</td>
<td></td>
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<td>Freeport Entrance Buoy 4</td>
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<td>Freeport Entrance Buoy 9</td>
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<tr>
<td>Brazos River Crossing Buoy 2A</td>
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<td></td>
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</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks, be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by

Joseph A. Vandekamp

Thos. B. Reed

Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>TEXAS</th>
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<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
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<tr>
<td>LT. 1</td>
<td>Freeport Entrance 1</td>
</tr>
<tr>
<td>DAYBEACON</td>
<td>Freeport Jetty Channel North Edge Range Front</td>
</tr>
<tr>
<td>DAYBEACON</td>
<td>Freeport Jetty Channel South Edge Range Front</td>
</tr>
<tr>
<td>DAYBEACON</td>
<td>Freeport Jetty Channel South Edge Range Rear</td>
</tr>
<tr>
<td></td>
<td>Freeport Entrance North Edge Range Rear</td>
</tr>
<tr>
<td></td>
<td>Freeport Entrance Center Range Rear</td>
</tr>
<tr>
<td></td>
<td>Freeport Entrance South Edge Range Front</td>
</tr>
<tr>
<td></td>
<td>Freeport Entrance South Edge Range Rear</td>
</tr>
<tr>
<td>LIGHT</td>
<td>Brazos River Crossing 2</td>
</tr>
<tr>
<td>LIGHT</td>
<td>Brazos River Crossing 4</td>
</tr>
<tr>
<td>DAYBEACON</td>
<td>Freeport Entrance North Edge Range Front</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if reetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
48. GEOGRAPHIC NAMES

- Barge Canal
- Big Bend
- Brazos River
- Bryan Beach
- Bryan Cut
- Bryan Lake
- Bryan Mound
- Dow Chemical Co.
- East Union Bayou
- Essex Bayou
- Freeport
- Freeport Golf Club
- Freeport Terminal (Alamo Refining Co)
- Fresh Water Lake
- Gulf of Mexico
- Horseshoe Lake
- Intracoastal Waterway
- Jones Creek
- Lower Turning Basin
- Mud Pit
- Old Brazos River
- Old-Intracoastal-Waterway
- Oyster Creek
- Oyster Creek Road
- Quintana
- Quintana Bend
- Red Fish Bayou
- Slop Bowl
- Surfside Beach
- Surfside Road
- Swan Lake
- The Jetties
- Upper Turning Basin
- Velasco

Names approved 6-28-50
A.O.W.

Geographic names were taken from names standards furnished by the Washington Office.
Review Report T-9293  
Shoreline Map  
August 16, 1950

61. General Statement:

Shoreline survey T-9293 of 1:20,000 scale is one of 76 maps comprising the four parts of project Ph-14(46) covering the Intracoastal Waterway from Houma, Louisiana to Port Aransas, Texas. Part IV of Ph-14 extends from Freeport, Texas to Port Aransas, Texas and consists of fourteen sheets. T-9293 is one of these.

62. Comparison with Registered Topographic Surveys:

| T-5362 | 1934 |
| T-6326 | 1935 | 1:10,000 |
| T-6610 | 1937 | 1:10,000 |
| T-6611 | 1937 | 1:20,000 |

T-375  1:20,000  1852
T-412  1:20,000  1853
T-2250 1:5000  1897
T-2251 1:5000  1897

The above surveys are superseded by T-9293 for nautical charting purposes.

63. Comparison with Maps of Other Agencies:

Freeport, Texas (USE)  1942, '43  1:31,680
Jones Creek, Texas (USE)  1942, '43  1:31,680
Cedar Lakes, East, Texas (USE)  1942, '43  1:31,680
Christmas Point, Texas (USE)  1942, '43  1:31,680

All the above have been reprinted at scale 1:25000 in 1947.

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

593 (latest correction date, 1949)  1:20,000
1238 (latest correction date, 1948)  1:80,000

"Brazosport" has been removed from the geographic name list.

The name "Stauffer Turning Basin" has been changed to "Upper Turning Basin". The former location of "Upper Turning Basin" is no longer named.

66. Adequacy of Results and Future Surveys:

Field inspection was adequate only in the immediate vicinity of the Intracoastal Waterway. T-9293 complies with instructions and the National Standards of Accuracy.

67. Control:

All topographic stations carried over from T-5362 were searched for on the photographs. Those that were not located or that existed among copious control were deleted. Forms 524 have been submitted for all field and office recovered topo stations and are in the general files of the Division of Photogrammetry.
67. **Control (continued)**

All the triangulation stations listed on form M-2388-12 were field recovered and used in controlling the radial plot with the exception of the following: South Drum Point (USE) 1933; Coast Guard (USE) 1927; Cedar (USE) 1933; Oyster (USE) 1933; Lake (USE) 1933; and Venus (USE) 1927. There was no 1947 field recovery for these stations. Their positions were transferred to T-9293 as part of the red-line print of T-5362 which served as a base for this compilation. Although their geographic positions are unpublished they are available from the Division of Geodesy.

Station "Light (USE)" falls within the boundaries of this sheet. However it is not shown, but its unpublished position may be obtained from the Division of Geodesy. The Intracoastal Waterway has been widened in the vicinity of its junction with Oyster Creek. As a result, the position of triangulation station Stray, 1934 falls into the canal. Undoubtedly, the station is lost and consequently its manuscript position has been deleted.

68. **Landmarks and Aids to Navigation:**

Four buoys were transferred from (T-6610) to T-9293 during review.

One day beacon (field located on photo 18389) was transferred to the manuscript.

Three landmarks were established during review.

The foregoing have been submitted on Forms 567.

Reviewed by:

Howard J. Murray

Approved by:

J. Griffith
Chief, Review Section

J. Jones
Chief, Div. of Photogrammetry

Carl E. Henson
Chief, Div. of Coastal Surveys
### Nautical Charts Branch

**Survey No. 9293**

- Record of Application to Charts

<table>
<thead>
<tr>
<th>Date</th>
<th>Chart</th>
<th>Cartographer</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-22-50</td>
<td>887</td>
<td>D.R. Engel</td>
<td>Before—After Verification and Review</td>
</tr>
</tbody>
</table>

- Before After Verification and Review
- Before After Verification and Review
- Before After Verification and Review
- Before After Verification and Review
- Before After Verification and Review
- Before After Verification and Review
- Before After Verification and Review
- Before After Verification and Review

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A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.