Diag'd. on diag.ch. No. 6154

Form 504
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey  Planimetric Air Photographic
Field No.  Office No. T-8708

LOCALITY
State  OREGON
General locality  Clackamas County
Locality  Canby

1947
CHIEF OF PARTY
R. A. Earle

LIBRARY & ARCHIVES
DATE  January 28, 1948
GENERAL LOCALITY: Clackamas County, Oregon
LOCALITY: Canby, Oregon

PHOTOS ORDERED: Aug. 1945.. REC'D: 9-24, 26, 1945

PROJECTION ORDERED: Dec. 1945 REC'D: 1-29-46

CONTROL:
COMPUTED: E. Bunce VERIFIED: J. Harris
PLOTTED: E. Bunce VERIFIED: J. Harris

PHOTO PREPARATION:
CONTROL: E. Bunce
AZIMUTHS: R. Davidson
PASS POINTS: E. Bunce

TEMPLATES: E. Bunce VERIFIED: J. Harris

RADIAL PLOT: E. Bunce
PLOTTED BY: J. Harris DATE: 12-20-46
VERIFIED: J. E. Deal DATE: 12-21-46

COMPILATION:
DETAIL POINTS: E. Bunce DATE: 12-31-46
DETAIL BY: H. Wiebe DATE: 4-14-47
VERIFIED: B. Barron DATE: 4-16-47

DATE OF PHOTOS: See reverse side
TIME OF PHOTOS: 
STAGE OF TIDE: 

COMPARISON WITH PREVIOUS SURVEYS; TOPO., HYDRO., AND CHARTS:
Due to scale difference only a visual comparison was made with the USGS Oregon City, Oregon 15 minute quadrangle, Scale 1:62500. In general the planimetry which is common to the map manuscript and quadrangle is in agreement.

REMARKS. All corrections and additions which were found during the field edit were applied to the map manuscript and a final compilation office review was then made.

FORWARDED TO: Washington Office DATE: 24 April 1947

R. A. Earle
Chief of Party
<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>502 to 507 Inc. 6-30-45</td>
<td>12:00</td>
<td></td>
<td>1:7000 contact</td>
<td>51.98 ft. above Mean Sea Level</td>
</tr>
<tr>
<td>580 to 584</td>
<td>6-30-45</td>
<td>13:30</td>
<td>1:8000 ratio</td>
<td>51.98 ft. above Mean Sea Level</td>
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<tr>
<td>716 to 719</td>
<td>7-1-45</td>
<td>10:35</td>
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<td>51.58 ft.</td>
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<tr>
<td>794 to 799</td>
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<td>&quot;</td>
<td>51.58 ft.</td>
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<tr>
<td>1002 to 1025</td>
<td>7-1-45</td>
<td>14:25</td>
<td>1:5000 contact</td>
<td>51.58 ft.</td>
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<tr>
<td>U.S. Engineer</td>
<td></td>
<td></td>
<td>1:8000 ratio</td>
<td>53.28 ft.</td>
</tr>
<tr>
<td>26-V 36 &amp; 37</td>
<td>8-10-44</td>
<td>12:42</td>
<td>&quot;</td>
<td>53.28 ft.</td>
</tr>
<tr>
<td>25-V 63 to 66</td>
<td>8-10-44</td>
<td>12:42</td>
<td>1:8000 ratio</td>
<td>53.28 ft.</td>
</tr>
</tbody>
</table>
DATA RECORD
T-8708

Quadrangle (II): CANDY, OREGON
(3 minute)  
Project No. (II): CS-322

Field Office: Portland, Oregon  
Chief of Party: R. A. Earle

Compilation Office: Portland, Ore.  
Chief of Party: R. A. Earle

Instructions dated (III): July 12, 1945  
Supplemental Instructions: Aug. 29, Sept. 10, 
Oct. 25, Nov. 30 and Dec. 6, 1945

Completed survey received in office: 30 April, 1947

Reported to Nautical Chart Section:

Reviewed: 11 July, 1947  
Applied to chart No. Date:

Redrafting Completed: 6 Aug. 1947

Registered: 4 Nov. 1947  
Published: 1947

Published Scale: 1:3600

Scale Factor (III): None

Geographic Datum (III): N.A. 1927  
Datum Plane (III): *See below

Reference Station (III): LUN (U.S.E.) (1935), 1946

Lat.: 45° 15' 34.15" (1054.2m)  
Long.: 122° 39' 30.22" (658.9m)  
Adjusted Unadjusted X
field computation

State Plane Coordinates (VI):

X =  
Y =  

Military Grid Zone (VI)
* Water level in Willamette River equals 52.0 ft. above Mean Sea Level.
All elevations are on the Standard 1929 general adjustment of leveling in the U.S.A.
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>502 to 507 Inc.</td>
<td>6-30-45</td>
<td>12:00</td>
<td>1:7000 contact 51.98 ft. above Mean Sea Level</td>
<td></td>
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<td>1002 to 1025</td>
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<td>14:25</td>
<td>1:5000 contact 51.58 ft.</td>
<td></td>
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<tr>
<td>U.S. Engineer</td>
<td></td>
<td></td>
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<td>25-V 63 to 66</td>
<td></td>
<td></td>
<td>&quot;</td>
<td>53.28 ft.</td>
</tr>
</tbody>
</table>

Water Level

Tide from (III): Gauge readings upper rock, Oregon City, Oregon 0+00 of gauge = 49.98 ft. above Mean Sea Level.

Mean Range: Spring Range:

Camera: (Kind or source) K-77, focal length 72 inches.

Field Inspection by: See remarks, page 3 date: 

Field Edit by: F. H. E'rod, Prin. Photo. Aid date: April, 1947

Date of Mean High-Water Line Location (III): Jan. 23, 1946

A high-water line of 52.0 ft. above Mean Sea Level was delineated on the U.S. Engineer photographs taken in August, 1944. A complete discussion of the water 'eve' in the Willamette River south of Oregon City, Oregon, may be found in the special report, "Field Inspection Report, Area of the Third Radial Plot, Project CS-322".

Projection and Grids ruled by (III) Washington Office date: Jan., 1946

" " " checked by: Washington Office date: Jan., 1946

Control plotted by: Eda H. Bunce date: Dec., 1946

Control checked by: James L. Harris date: Dec., 1946

Radial Plot by: James Harris & Eda Bunce date: 20 Dec. 1946

Detailed by: Clyde Randa & Carita Wiebe date: 14 April 1947

Reviewed in compilation office by: Ree H. Barron date: 16 April 1947
Correction and changes after field edit by: Ree H. Barron date: 23 April 1947
Review after changes due to field edit by: J. E. Dea date: 28 April 1947
Elevations on Field Edit Sheet checked by: Charles Hanavich, Topographic Engineer date: April 1947
STATISTICS (III)

Land Area (Sq. Statute Miles): 8.0

Shoreline (More than 200 meters to opposite shore): 6.5 statute miles

Shoreline (Less than 200 meters to opposite shore): 0.5 statute miles

Number of Recoverable Topographic Stations established: 5

Number of Temporary Hydrographic Stations located by radial plot: 3

Leveling (to control contours) - miles:

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

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

Field Inspection by: L. MacArthur, Photo. Aid date: Feb., 1946

Shoreline Inspection by: J.C. LaJoye, Prin. Photo. Aid date: Jan., 1946

Recovery of Horizontal Control by: J.H. Winniford, Photo. Aid date: Oct., 1946

Recovery of Vertical Control by: J.H. Winniford, date: Oct., 1946

Investigation of Geographic Names and Civil Boundaries: L. E. Ervast, Photo. Aid date: May, 1946
FIELD INSPECTION REPORT
T-8708
Project CS-322

1 to 25: All the information that is applicable to these side headings is given in the "Field Inspection Report, Project CS-322, Area of the Third Radial Plot", which was enclosed with the Descriptive Report for Quadrangles T-8702 and T-8703. This Descriptive Report has been submitted.

Approved by:  
R. A. Earle  
Chief of Party

Respectfully submitted:  
Charles Hanavich  
Topographic Engineer
New A:

- Peach 1946
- Canby 1946
- Canby Tonk 1946
- Nundorp 1946
- Union A2 1946
- Union 1946
- Erie 1946
- Fish 1946

Re-established A

[Signature]

Appraiser

Chief of Enrty
Since project CS-322 was reviewed and registered, it was decided that a Completion Report for each project would be written and filed in the Bureau of Archives. This Completion Report should include all special reports, correspondence of probable future interest or importance, a project layout, a photo index, and a copy of the initial and supplementary project instructions.

A special file has been set up in the library for Division of Photogrammetry projects. The Completion Report and other special reports will be filed under the project number, and these will be arranged in numerical order.

The following reports and records for project CS-322 are now filed in the Bureau Archives, rather than according to the red notes in the Descriptive Reports:

### A. Special Reports:
- **Investigation of Boundaries Remarks**
- **Land Lines for Radial Plots 1, 2, 3, and 4**
- **Radial Plots 1, 2, 3, and 4**
- **Legal descriptions of boundaries**
- **Field Inspection for plots 1, 2, 3, and 4**

### B. Computations: Triangulation and Traverse
- 943/672 0-6785

### C. Field records:
- **Horizontal Angles (form 250) 12 vol. 942/55 B 0-7822**
- **Traverse Measurements (form 590) 9 vol. 943/55 B 0-7823**
- **Descriptions (form 525) and recoveries (form 526)**
- **Pricking cards (form 982-1) for tri. and Trav.**
- **Recoverable Topographic stations (form 524)**
- Div. of Photogrammetry General File
- Div. of Photogrammetry General File

### D. Recovery of bench marks (form 685)
- Filed in Leveling Sec.

### E. Supplemental data; maps, plans
- These were transferred to the Map Section (Mr. Stanley, Chief), Division of Charts, to be selectively filed or discarded.

**January 1951**
COMPILATION REPORT
Map Manuscript T-8708
Project CS-322

26. Control:

At the time this project was started there were seven U. S. Engineer traverse stations located within the area of this map manuscript and six were recovered.

In 1946, a geodetic party established eight new triangulation stations and re-established three of these recovered U. S. Engineer traverse stations namely:

OB (USE) (1936, 1946
PAR (USE) (1936), 1946
LUN (USE) (1936), 1946

The field unit identified two of the re-established traverse stations and four of the new triangulation stations for use in the radial plot.

The geodetic party did not relocate U. S. Engineer traverse stations, MEX (USE), 1935, NOG (USE), 1935 and RAP (USE), 1935. As these stations were not needed for control purposes, no effort was made to adjust the U.S.E. traverse in the area. The first two of these stations were, however, identified and located as topographic stations. When these two stations were scaled it was found that the radially plotted positions were in close agreement with the geographic positions as established by the U. S. Engineers, which indicates that the traverse leading east from Canby, Oregon along Fourth Ave. may be correct. Station RAP (USE), 1935, was recovered as a vertical control station and it has been shown on the map manuscript as a bench mark.

A complete tabulation of the horizontal control stations which were originally in the area of this map manuscript is attached to the "Field Inspection Report, Project CS-322, Area of the Third Radial Plot". This report is included with the descriptive report for Map Manuscripts T-8702 and T-8703, which has been forwarded.

A complete tabulation of supplemental horizontal control stations established in this area is attached to a special report, "Third-Order Triangulation and Traverse, Project CS-322, Area of the Third Radial Plot", which has been forwarded.

27. Radial Plot:

The facts concerning the radial plot for the area of this map manuscript have been fully covered in the "Descriptive Report, Third Radial Plot, Project CS-322". This radial plot report was included with the descriptive report for Map Manuscripts T-8702 and T-8703, which has been forwarded.

Filed in library & Archives under G-6785
Filed in Dir. Photogram. General Files under "Special Reports"
28. **Detailing:**

Compilation was done in accordance with instructions for Project CS-322 and special instructions applicable to planimetric mapping.

The high-water line and shore line features of the Willamette River were delineated and detailed from photographs obtained from the U. S. Engineers at Portland, Oregon, and ratio printed at a scale of 1:8000 by the Coast and Geodetic Survey in the Washington Office. In all inland areas the original photography was adequate. The 1:5000 scale contact prints, taken along the shorelines of the Willamette River, were a great help in interpreting detail.

In some cases it was difficult to interpret, from the ratio print, the correct shape and size of buildings. This was attributed to the loss of sharpness when the contact prints were enlarged.

When any item relative to the field inspection data was doubtful, it could be clarified by consultation with the field man who had done the inspection work. It was therefore unnecessary to make discrepancy overlays for the field edit work.

The classification symbols for tree or brush areas are placed on the inside of the curved line which denotes the limits of said areas. These curved lines and the letter symbols are in green acid ink.

All boundary and claim lines are shown by appropriate symbols in red acid ink. A legend shown in the margin of the map manuscript identifies these lines.

Pertinent notes, relative to various items, have been lettered in the margin of the map manuscript.

29. **Supplemental Data:**

There was no supplemental data used in the area of this map manuscript.

30. **Mean High-Water Line:**

The Willamette River south of Willamette Falls, between Oregon City and Newberg, is not affected by tidaal action. This part of the river is a pool in which the water level is controlled by the height of s'uice boards placed above the dam at Willamette Falls. The U. S. Engineers usually maintain a water level at an elevation of 51.6 ft. above Mean Sea Level which is the elevation of the first tier of s'uice boards. After considerable study the field inspection unit decided to show a high-water line of 52.0 ft. above Mean Sea Level in this part of the river. A detailed discussion on this subject may be found in paragraph 7 of the "Field Inspection Report, Area of the Third Radar Plot, Project CS-322", which has been forwarded.

There are no marsh areas immediately bordering the high-water line.
The high-water line is shown by a continuous heavy weight black acid ink line. The approximate water level during the normal spring floods is at the bottom of the bluff which is shown along both shores of the Willamette River and around the several small islands located in the river.

31. Low-Water and Shoal Lines:

The field inspection unit did not indicate any low-water lines in the area of this map manuscript. The approximate limits of a sand shoal which bares at low-water has been shown as indicated by the field inspection.

32. Details Offshore from the High-Water Line:

There are no details offshore from the high-water line.

33. Wharves and Shoreline Structures:

All piers, wharves, dolphins, piling areas, etc. have been shown.

34. Landmarks and Aids to Navigation:

Form 567 is being submitted recommending the charting of CUPOLA, 1946, as a nautical landmark.

35. Hydrographic Control:

Thirty-one objects were located radially for use as temporary hydrographic signals. They are indicated on the map manuscript by 2.0 mm black acid ink circles with a number lettered nearby. This number refers to a description which is listed in the left hand margin of the map manuscript.

36. Landing Fields and Aeronautical Aids:

There are no landing fields or aeronautical aids within the limits of this map manuscript.

37. Geographic Names:

Only undisputed geographic names are shown on the map manuscript.

Geographic Names are the subject of a special report, "Investigation of Geographic Names, Project CS-322, Area of the Third Radial Plot", which has been forwarded.

38. Recoverable Topographic Stations:

Forms 52A are being submitted for the following:

- PIER, 1946
- CUPOLA, 1946
- MEX (USE), (1935), 1946
- NOG (USE), (1935), 1946
- NEW ERA LIGHT STRUCTURE, 1946

First of the Third Radial List.

Filed in the Attorneys General Files under "Special Reports."

[Handwritten text on the page is not legible due to poor quality of the image.]
39. **Junctions:**

A complete and satisfactory junction has been made with Map Manuscript T-8706. There are no contemporary surveys to the east and south. A junction of pass points has been made with sheet no. T-8809 in Project Ph-13 (46), and a copy of the planimetry along the junction has been retained in this office so that a satisfactory connection may be made during the compilation of T-8809.

40. **Bench Marks:**

Bench marks have been detailed as identified by the field inspection units. Each bench mark is indicated by a black acid ink cross with the name and elevation to the nearest 1/10 foot lettered nearby.

41. **Donation Land Claims and Section Lines:**

Donation land claims and section lines were located on an osmid print of the map manuscript after the initial compilation had been completed. These lines, with pertinent explanatory notes, were placed on the print in red and purple ink respectively, by the field party, and were traced on the map manuscript by the compiler. The osmid print containing these lines is being forwarded.

42. **Comparison with Existing Topographic Surveys:**

See record sheet which accompanies each map manuscript.

43. **Comparison with Nautical Charts:**

There are no nautical charts of the area of this map manuscript.

**Approved and forwarded:**

R. A. Earle
Chief of Party

**Respectfully submitted:**

J. Edward Deal, Jr.
Photogrammetric Engineer
FIELD EDIT REPORT
T-8708
Project CS-322

46. Methods:

This map manuscript was field edited in accordance with the Field Edit Instructions dated 24 August 1945. All corrections and additions have been made accurately on the field edit prints in colored ink, or the place where a correction or addition is to be made has been indicated by a note which refers to a field photograph. All features which are to be deleted have been crossed out in colored ink.

New buildings were located either by pacing or taping and are shown on the field edit prints. A legend on each of these prints will furnish a key to all the symbols and to the different colored inks used.

47. Adequacy of the Compilation:

The planimetry as delineated on the map manuscript may be considered as complete and adequate with respect to the corresponding ground detail. Except for the deletions, corrections, additions, and notations made on the field edit prints, it is also accurate, in regard to relative position.

Any omissions or drafting of detail that seemed to be questionable was called to the attention of the Compilation Office by adequate notes. New cultural detail was located by planelable methods or field measurements on the field photographs or the ozalid prints. The names of roads were verified from posted signs or from other official sources.

All offshore and shoreline features were checked and several corrections were noted. There are no fixed aids to navigation in this area. "New Era Light Structure" is an abandoned light structure which has been established as a topographic station. Other minor changes, omissions, additions, and deletions were noted and corrected in the area of this map manuscript.

In accordance with the field edit instructions, the map manuscript was examined for completeness and accuracy in regard to geographic names, boundaries, public land lines, and detail by Mr. D. T. Meldrum, County Surveyor, Oregon City, Oregon. The geographic names in this area have been reviewed by Mr. Lewis A. McArthur, Collaborator for the U. S. Coast and Geodetic Survey.

48. Accuracy Tests:

No horizontal accuracy tests were run in this area. For map accuracy tests near the area of this map manuscript refer to the field edit report for T-8699 to T-8701 inclusive.
49. **Bench Mark Elevations:**

The elevation of the bench marks shown on this sheet have been checked.

50. **Donation Land Claims and Section Lines:**

Donation land claims and section lines have been indicated on the ozalid print of the map manuscript by a special field party. These lines have been indicated in red and purple ink, respectively, and supplemented, if necessary, by explanatory notes. This print will be submitted with the field edit sheet.

For additional information refer to letter dated 9 April 1947, on the subject of mapping land lines.

51. **Geographic Names:** (Listed in Geographic Names Report)

MUNDORF SCHOOL - This name is no longer applicable. The school has been converted into a private dwelling.

Field Edit reviewed by:

Charles Hanavich  
Topographic Engineer

Field Edit by:

Frank H. Elrod  
Prin. Photo. Aid

Approved by:

R. A. Earle  
Chief of Party
Division of Photogrammetry

Review Report of

Planimetric Map Manuscript T-8708

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

41. Donation Land Claims and Section Lines.

The section line eastward from corner 27-28-33-34 has been adjusted to agree with the angle given on the General Land Office plat. This adjustment moved section corner 26-27-34-35 to the south about 63 feet and brought it into agreement with the plat by making sections 27 and 34 of equal length.

44. Comparison with Existing Topographic Surveys.

U.S.E. Oregon City, Oregon 15' 1:62,500 1939
U.S.G.S. Oregon City, Oregon 15' 1:62,500

Planimetry in all common areas is superseded by T-8708.

45. Comparison with Nautical Charts.

There are no nautical charts in the area of this map manuscript.

Reviewed by: Reviewed under direction of:

Lena T. Stevens
Photogrammetrist
7-11-47

S. V. Griffith
Chief, Review Section
APPROVED BY:

Technical Assistant to the Chief, Div. of Photogrammetry

Chief, Nautical Chart Div. Division of Charts

K. T. Adams
Chief, Div. of Photogrammetry

E. K. Green
Chief, Div. of Coastal Surveys
<table>
<thead>
<tr>
<th></th>
<th>Name on Survey</th>
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<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<tr>
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<td>Canby Grade School</td>
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<td>Canby Ferry 7-8706</td>
<td>(probably desirable to preserve name even if ferry is abandoned)</td>
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Names underlined in red approved by L. Heck on 8/21/47
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.

<table>
<thead>
<tr>
<th>NAME AND DESCRIPTION</th>
<th>POSITION</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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<tbody>
<tr>
<td>WILLAMETTE RIVER</td>
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<td>Clackamas Co., Oregon</td>
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<td>CUPOLA ON RED BARN</td>
<td>45 17 643.4 122 40 241.3 1927</td>
<td>Plot 1-27-46</td>
<td>Area not charted</td>
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</table>

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." 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.
29 July 1947

To: Chief, Division of Photogrammetry,
   U.S. Coast & Geodetic Survey,
   Washington 25, D.C.

Subject: Review of Map Manuscript T-8708

Reference: Your Letter 78-ear dated 15 July 1947

The slight southerly movement of a section line, as recommended by the Washington Office, is accepted, since the adjustment does not contradict any planimetric detail shown on the map manuscript. It was also found that a small portion of the Daniel Brock Donation Land Claim falls in the extreme northwestern corner of this map manuscript. The name should be added to the published map, as indicated on the attached ozalid print.

R. A. Earle,
Lt. Comdr., USC&GS,
Chief of Party
## Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
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<th>REMARKS</th>
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<td>J. W. Walker</td>
<td>After Verification and Review</td>
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</table>

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.