SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00648

This 1:5,000 scale shoreline map is one of six maps that comprise project CM-7711, Shilshole Bay to Sand Point, Washington.

This project encompasses Sand Point, Washington on Lake Washington longitude 122°14'00" west including Lake Washington Ship Canal to Shilshole Bay longitude 122°27'00".

Photographic coverage was provided in August 1977 using the "B" camera (focal length 152.74 mm) with black and white Panchromatic film at 1:36,000 scale for bridging and 1:15,000 scale for compilation.

Field work done prior to compilation was accomplished in two parts. First the premarking of horizontal control in August 1977, second the photoidentification of horizontal control in October 1977. This was done to meet the requirements for aerotriangulation.

Analytic aerotriangulation was performed at the Washington Science Center in December 1977.

Compilation was performed and hydrographic support photographs were prepared at the Atlantic Marine Center in April, 1978.

Field edit accomplished twice. The first was from May through August 1978. The second field edit was done as a training operation at the Pacific Marine Center; this was completed in April 1980.

The entire project was sent to the Pacific Marine Center in May 1978 and field edit application was done in two parts: first application in November 1978, and the second in April 1980.

Final Review was performed at the Atlantic Marine Center in April 1985.

This Descriptive Report contains all pertinent information used to compile this final map.

The original base map and all pertinent data were forwarded to the Washington Science Center for final registration.
FIELD INSPECTION
TP- 00468

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.
AREA COVERED

The area covered by this report is the shoreline surrounding the Washington Ship Canal, which bisects Seattle and links Puget Sound (Shilshole Bay) to Lake Washington (Sand Point).

Five 1:5,000 scale manuscripts are submitted: TP-00646 to TP-00650. TP-00696 was previously submitted.

METHOD

Four strips of 1:30,000 black-and-white panchromatic photography were bridged by analytic aerotriangulation methods. Field identified control was provided.

Common points were located on the bridging photography and the 1:15,000 scale compilation photography for ratio purposes. Additional common points were located on the same photography to allow for B-B stereo compilation. Tie points were used to insure adequate juncturing of the bridging photography during the strip adjustments.

Ratio prints have been ordered. Manuscripts were ruled on the Coradomat.

Strips 77-B-7916-7921 (1:30,000) and 77-B-7905-7909 (1:20,000) were previously submitted upon their completion of the photogrammetric procedures described above.

ADEQUACY OF CONTROL

All control checked well within map Accuracy Standards.

SUPPLEMENTAL DATA

USGS quadrangles were used to provide vertical control for the strip adjustments.

PHOTOGRAPHY

The coverage, overlap, and quality of the photography proved adequate for the job.

Approved and Forwarded:  

John D. Perrow, Jr.  
Chief, Aerotriangulation Section

Respectfully submitted:  

Stephen H. Sulbeck
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SHILSHOLE BAY TO SAND POINT
WASHINGTON
C.M. 1771
77 (B)
Compilaton
Photography

Seattle, Fremont Water
District, Standpipe, 1935
916100

Olympic 3, Rm 7
1973
918101

Lawton 2
1958
920000

Masiff
1927
921100

Capitol Hill Tower 1902

934100
547100
935100

936100
917100

7816
7814
7804
7888
7812
7827
7799
7900
7974
8774

1:15000
1:20000
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<td>( \lambda = 122^\circ 21' 33.853'' )</td>
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COMPUTED BY: C. W. Goff  
LISTED BY: D. P. Butler  
HANDED PLOT BY: C. W. Goff  
COMPUTATION CHECKED BY: J. R. Minton  
Listing checked by:  
HANDED PLOTTING CHECKED BY: J. R. Minton
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**COMPUTED BY**
C. W. Goff  
DATE 11/9/78

**COMPUTATION CHECKED BY**
J. R. Minton  
DATE 11/9/78

**LISTED BY**
D. P. Butler  
DATE 2/1/78

**LISTING CHECKED BY**
DATE

**HAND PLOTTED BY**
C. W. Goff  
DATE 11/9/78

**HAND PLOTTING CHECKED BY**
J. R. Minton  
DATE 11/9/78
31. **DELINEATION**

Delineation was by instrument method using the Wild B-8 stereoplotter and 1:15,000 scale panchromatic photographs. Coverage and quality of the photographs was adequate for compilation. Photo hydro-support data was not required for this map.

32. **CONTROL**

The placement, identification, and accuracy of the aerotriangulated control, that was furnished for the express purpose of controlling the stereo-models, was adequate. Refer to the Photogrammetric Plot Report dated December 1977.

33. **SUPPLEMENTAL DATA**

None.

34. **CONTOURS AND DRAINAGE**

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter.

35. **SHORELINE AND ALONGSHORE DETAILS**

Refer to Form 76-368, item 2 for delineation of the shoreline.

Alongshore details were delineated by the Wild B-8 stereoplotter, and supplemented by office stereoscopic interpretation of the ratio photographs which were controlled with pass points that were selected and dropped during the stereo-instrument compilation of the shoreline and interior detail.

36. **OFFSHORE DETAILS**

None.

37. **LANDMARKS AND AIDS**

There are fifteen landmarks and one nonfloating aid to navigation within the mapping limits of this manuscript. Eleven of the landmarks were located photogrammetrically, one was not visible, and three were outside of the stereo-model limits. The aid was not visible.

38. **CONTROL FOR FUTURE SURVEYS**

None.
39. JUNCTIONS

Refer to the Compilation Sources, Form 76-36B, item 5.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated December 1977.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with U.S. Geological Survey Quadrangle Seattle North, Washington, scale 1:24,000, dated 1949, photorevised 1968.

47. COMPARISON WITH NAUTICAL CHARTS


ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

Joanne Roderick
Cartographer

Approved,

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section
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<th>GEOGRAPHIC NAMES</th>
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Approved by:

Charles E. Harrington
Chief Geographer
Nautical Charting Division
FIELD EDIT REPORT

SHILSHOLE BAY TO SAND POINT, WASHINGTON

MAY - AUGUST 1978

Map Manuscripts TP-00647, TP-00648, TP-00649, TP-00696

Project CM-7711
FIELD EDIT REPORT
SHILSHOLE BAY TO SAND POINT, WASHINGTON
MAY - AUGUST 1978
Map Manuscripts TP-00647, TP-00648, TP-00649, TP-00696
Project CM-7711

The field edit was originally assigned to the Ship DAVIDSON, but due to scheduling they were unable to finish. PMC Photo Party was then assigned the completion of the job.

The entire shoreline was inspected by using a small boat. Both a copy of the field edit sheet print and the photographs were used. If a discrepancy was noted, it would be compared with the photograph to see if it could be resolved that way. Several piles and dolphins were located this way.

All inquiries on the Master Field Edit Ozalids were answered. One statement asks for a recovery note on all of the control stations on each manuscript. This was altered as PMC has gone to the TENCOL (Terminal Entry Command Language) system and the recovery note (Form 76-165) is no longer used. At the time of this report the recovery notes and/or descriptions have not been sent to Rockville over the terminal, however, to aid the compiler, all those stations which have been recovered will have a statement to that effect on the Master Field Edit Ozalid. There were some recovery notes written in 1977. A copy of those will be sent with this report.

A copy of the field positions for new control completed in 1977 and 1978 will be sent with this report. Some control work was done in Lake Union by PMC personnel in 1975. This will also be sent with this report.

Adequacy of Compilation:

The extent and accuracy of the maps appear to be reasonably complete. Considering the congestion in the area, the compiler did a good job.

Some new piers, piles and dolphins were found that were constructed after the photography was taken. Plot plans were obtained for most of the new piers. Corresponding features were marked on the plans and photographs to aid the compiler in orienting the plans with the shoreline. Other piers and dolphins were located with fixes and/or sketches. This information will be found in the sketchbook that will be submitted with the field edit data.

All fixed aids to navigation were located and/or verified. See the appropriate form 76-40.

All landmarks were checked in the field for their authenticity. See the appropriate form 76-40.
Purple ink was used to indicate corrections on the Master Field Edit Ozalid. Green ink was used to indicate deletions. Red ink was used on the photographs.

There was a considerable lack of signs along the shoreline to indicate cable crossings and/or pipeline crossings. The Telephone Company, Seattle City Light, Seattle Sewer Department and the Seattle Water Department were all contacted to locate their crossings. These are indicated on the Master Field Edit Ozalid.

Information pertinent to each manuscript will be discussed under each listed manuscript number.

**TP-00649**

Two new piers and seven dolphins have been constructed since the photography was taken. A plot plan for the pier at St. Vincent de Paul was obtained. A building that is on both the plot plan and the photograph was indicated for aid in compiling this feature. The seven dolphins were located by setting a theodolite over a compiled photo point (the corner of a pier) and angles turned to two controlled intersection stations to the dolphins. Distance was obtained by stadia. This information is in the sketchbook.

The other pier was located by a three point fix at the south end of the pier. The information needed is in the sketchbook under Item 1.

**TP-00648**

Four new piers were built since the photographs were taken. Plot plans were obtained for Items 8 and 9.

Items 3 and 7 were sketched. See the sketchbook.

Several dolphins and piles were obscured by shadows at the northeast end of the George Washington Memorial Bridge. The position for these dolphins and piles was computed by the field editor. See attached computations sketchbook under Item 2.

**TP-00647**

On the Master Film Edit Ozalid the longitude line on the upper right hand corner is labeled as $122^\circ 30' 00"$. It should read $122^\circ 22' 30"$.

There are two small new piers in the Fisherman's Terminal area that have been built since the photographs were taken. See under Item 4 in the sketchbook.
TP-00696

There are several piles in ruins not on the manuscript or on the photograph. These were positioned with a theodolite three-point fix with angles and stadia distances to the piles. The records are on three sketchbook sheets. The three-point fix was computed by the field editor.

On the north shore at West Point there are several rocks that were not charted. These were located by setting a theodolite over a control station (SHAY, 1977) and taking angles and stadia distances to the rocks. The records are on a sketchbook page.

Respectfully submitted,

Lyle L. Riggers
Surveying Technician

Approved;

Robert B. Melby
PNC Photo Party CPM 33
Field Edit Report

TP-00648

CN-7711

April, 1980
This manuscript was reinspected on April 8 and 9, 1980 by Lt(Jg) David Actor from the NOAA ship Davidson and Richard Minton from the FWC Photogrammetric Branch. A number of new features are presented in the drawings attached to this report. These drawings are based on taped distances and sextant fixes with check angles. Geographic positions were computed from the fixes and are shown on the appropriate drawings. These features were plotted on the field edit ozalid and referenced to the appropriate drawing number.

Additional detail was photo identified on chronopaque ratio prints 77B(P)7825 thru 7822. These detail items were not transferred to the edit ozalid.

Four dolphins and one pile were shown as approximate positions because photo identification was not possible and sextant positioning was either weak or impossible.

No landmarks or aids were checked during this reedit operation, and consequently no forms 76-40 are attached.

All verification and addition of detail was noted in violet ink on the edit ozalid and photographs. All deletions are noted in green ink on the edit ozalid.

One question concerning submerged piles near 47°39.3' by 122°21.9' could not be resolved without a diver investigation or wire drag operation. This item should be redirected to future hydrographic effort.

Submitted by:

James R. Minton
Cartographic Technician
April 24, 1980
61 - GENERAL STATEMENT

See Summary included with this report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISONS WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S. Quadrangle: Seattle North, 1:24,000 scale dated 1949, photorevised 1968.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with a registered copy of hydrographic survey H-9747, scale 1:5,000, dated March through July 1978.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following N.O.S. Chart: 18447, 21st edition, dated April 1984, scale 1:10,000 and 1:25,000.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by

Lowell O. Neterer, Jr.
Final Reviewer
April 10, 1985

Approved for forwarding,

Billy H. Barnes
Chief, Photogrammetric Section

Approved

Chief, Photogrammetric Section, Rockville

Chief, Photogrammetry Branch, Rockville
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<th>FIELD</th>
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**Photogrammetric Methods**

Field positions are determined by field observers. Variations based entirely upon ground survey methods.

**Example:** 8-12-75

- Position Verified Visually on Photograph
- Acquirer with date of recovery
- Annotated station is recorded, enter "Trl." when a landmark or odd which is also a trl.
- Trilateration

**Example:** 74R(C)-2982

- B. Photogrammetric Field Positions Required

**Example:** 8-12-75

- Classify and locate the object
- Date of field work and number of the photo
- Every of field locations or verification
- Objects inscribed from survey

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<th>Type of Action</th>
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<td>R. B. Melby</td>
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<td>Activity Originator</td>
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### Charting Details

**Reporting Unit:** Photogrammetric Br.  
**State:** Washington  
**Locality:** Shilshole Bay to Sand Point  
**Date:** 11/09/78

The following objects **HAVE** been inspected from seaward to determine their value as landmarks:

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<td>N.A. 1927</td>
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<tr>
<td>TOWER</td>
<td>(South Power Tower, East Light, City Light, 1934) Light was removed</td>
<td>N.A. 1927</td>
<td>F-V-Vis. 08/15/78</td>
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<td>(Tallest of Two) Stack has been removed</td>
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<td>N.A. 1927</td>
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versions based entirely upon ground survey methods.

FIELD POSITIONS are determined by field observer.

EXAMPLE: P-2-66-7

4. Field positions require entry of method of

- Location and date of field work.
- Ill. - Position determined. 
- Field identified
- V.S. = visually
- Field identified
- Field location
- Intersection
- Traverse
- Range
- Datum

From this applicable data by symbols as follows:

NEW POSITION DETERMINED OR VERIFIED

FIELD

EXAMPLE: 756(360)

V.S. = visually

IDENTIFY AND LOCATE THE OBJECT.

C.M. = Golf

Enter the number and date (including month,

R.B. = elevy

Office

FILED

DATE

REPRESENTATIVE QUALITY CONTROL AND REVIEW GROUP

REVIEWER

OFFICE ACTIVITY REPRESENTATIVE

FIELD ACTIVITY REPRESENTATIVE

OTHER (Specify)

GEODETIC PARTY

RECEIVING PARTY

PHOTO FIELD PARTY

NAME

RESPONSIBLE PERSONNEL

ACTIVITIES

AND REVIEW GROUP AND FINAL REVIEW

FORMS ORGANIZED BY QUALITY CONTROL

FIELD POSITIONS DETERMINED AND/ OR VERIFIED

OBJECTS INSPECTED FROM SATELLITE

TYPE OF ACTION

INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF LOCATION.
<table>
<thead>
<tr>
<th>OPR PROJECT NO.</th>
<th>JOB NUMBER</th>
<th>SURVEY NUMBER</th>
<th>DATUM</th>
<th>CHART NAME</th>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-N303</td>
<td>CM-7711</td>
<td>TP-00648</td>
<td>North American 1927</td>
<td>STACK</td>
<td>(Seattle, Lake Union Park, Stack, 1975)</td>
<td>47 38</td>
<td>122 20</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td>41.987</td>
<td>00.160</td>
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CHARTS AFFECTED
Triang. Rec. 28 Aug. '78 18447

NOTE: The following objects HAVE been inspected from seaward to determine their value as landmarks.
### Field Position Determined or Verified

Field positions are determined by field operator. Location and date of field work.

### Position Determined or Verified

By photogrammetric methods.

- **Example:** 8-21-75
  - Location: L-15
  - Date: 7/15/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: L-14
  - Date: 7/14/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: L-13
  - Date: 7/13/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: L-12
  - Date: 7/12/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: L-11
  - Date: 7/11/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: L-10
  - Date: 7/10/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: L-9
  - Date: 7/09/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: L-8
  - Date: 7/08/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: L-7
  - Date: 7/07/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: L-6
  - Date: 7/06/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: L-5
  - Date: 7/05/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: L-4
  - Date: 7/04/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: L-3
  - Date: 7/03/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: L-2
  - Date: 7/02/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: L-1
  - Date: 7/01/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/30/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/29/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/28/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/27/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/26/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/25/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/24/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/23/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/22/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/21/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/20/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/19/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/18/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/17/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/16/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/15/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/14/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/13/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/12/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/11/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/10/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/09/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/08/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/07/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/06/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/05/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/04/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/03/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/02/75

### Field Position Determined or Verified

By triangulation, field position determined.

- **Example:** 8-21-75
  - Location: 0
  - Date: 6/01/75
<table>
<thead>
<tr>
<th>Charting Name</th>
<th>Description</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Office</th>
<th>Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>STACK</td>
<td>(Seattle Champion Bldg. Prod Stk, 1977)</td>
<td>47 39</td>
<td>31.63 122.22 04.60 077 96</td>
<td>F - V - Vis. 15 July '78</td>
<td>18447</td>
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<tr>
<td>TOWER</td>
<td>(Seattle PSP&amp;LN Twr, 1977)</td>
<td>47 39</td>
<td>12.490 122.21 33.853</td>
<td>F - 1 - 6 - L 25 July '78</td>
<td>18447</td>
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<td>(Seattle PSP&amp;LS Twr, 1977)</td>
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<td>08.146 122.21 33.80</td>
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<tr>
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<td>00.23 122.21 08.55 178</td>
<td>V - Vis. 16 Aug. '78</td>
<td>18447</td>
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<tr>
<td>TOWER</td>
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<td>47 39</td>
<td>56.61 122.21 12.62 263</td>
<td>V - Vis. 16 Aug. '78</td>
<td>18447</td>
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<tr>
<td>TV TOWER</td>
<td>(Seattle, T.V. Station KIRO, Tower, 1958)</td>
<td>47 37</td>
<td>59.468 19.229</td>
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<td>18447</td>
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<td>BLDG TOWER</td>
<td>(Seattle, Marina Mart, Bldg, Tower, 1975)</td>
<td>47 37</td>
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<td>18447</td>
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<td>55.310 9.323</td>
<td>Triang. Rec. 16 Aug. '78</td>
<td>18447</td>
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</table>
**1. FIELD POSITIONS ARE DETERMINED BY FIELD OBSERVER**

- Example: P-5-6-P, V-5-6-C, R-5-6-D, T-5-6-B

**2. Field Positions are based entirely upon ground survey methods.**

- Example: P-5-6-P, V-5-6-C, R-5-6-D, T-5-6-B

**3. Field Positions are determined by field observer.**

- Example: P-5-6-P, V-5-6-C, R-5-6-D, T-5-6-B

**4. Field Positions are determined by field observer.**

- Example: P-5-6-P, V-5-6-C, R-5-6-D, T-5-6-B

**5. Field Positions are determined by field observer.**

- Example: P-5-6-P, V-5-6-C, R-5-6-D, T-5-6-B

**6. Field Positions are determined by field observer.**

- Example: P-5-6-P, V-5-6-C, R-5-6-D, T-5-6-B

**7. Field Positions are determined by field observer.**

- Example: P-5-6-P, V-5-6-C, R-5-6-D, T-5-6-B

**8. Field Positions are determined by field observer.**

- Example: P-5-6-P, V-5-6-C, R-5-6-D, T-5-6-B

**9. Field Positions are determined by field observer.**

- Example: P-5-6-P, V-5-6-C, R-5-6-D, T-5-6-B

**10. Field Positions are determined by field observer.**

- Example: P-5-6-P, V-5-6-C, R-5-6-D, T-5-6-B

**11. Field Positions are determined by field observer.**

- Example: P-5-6-P, V-5-6-C, R-5-6-D, T-5-6-B

---

**Instructions for Entries Under Method and Date of Location**

<table>
<thead>
<tr>
<th>Responsible Person/Office</th>
<th>Activities</th>
<th>Form Completed By</th>
<th>Quality Control and Review Group</th>
<th>Retention and Review Final Review</th>
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</thead>
<tbody>
<tr>
<td>Field Representative</td>
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<tr>
<td>Quality Control and Review Group</td>
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<tr>
<td>Other Party (as noted)</td>
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<tr>
<td>Photo Field Party</td>
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<td>Photo Field Party</td>
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<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
<td>LATITUDE</td>
<td>LONGITUDE</td>
<td>DATUM</td>
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<tr>
<td>LIGHT</td>
<td>West Shore Lake Union (Private) Light was destroyed</td>
<td>47 38.6</td>
<td>122 20.5</td>
<td>N.A. 1927</td>
</tr>
</tbody>
</table>
By Photogrammetric methods.

- Position determined by field observer.
  
  **Example:** F-2-6-L
  
  Location and date of field work.

- Position determined by ground survey methods.
  
  **Exemple:** F-2-6-L
  
  Location and date of field work.

1. Field position determined by field observer.

2. Photogrammetric:
   
   **Example:** F-2-6-L
   
   Location and date of field work.

3. Intersection:
   
   **Example:** F-2-6-L
   
   Location and date of field work.

4. Resection:
   
   **Example:** F-2-6-L
   
   Location and date of field work.

5. Field Verified:
   
   **Example:** F-2-6-L
   
   Location and date of field work.

6. Field Visually:
   
   **Example:** F-2-6-L
   
   Location and date of field work.

7. Field Verified:
   
   **Example:** F-2-6-L
   
   Location and date of field work.

8. Field Visually:
   
   **Example:** F-2-6-L
   
   Location and date of field work.

9. Location and date of field work.

10. Field Verified:
    
    **Example:** F-2-6-L
    
    Location and date of field work.

11. Field Visually:
    
    **Example:** F-2-6-L
    
    Location and date of field work.

Instructions for Entries Under Method and Date of Location:

1. Office Identified and Located Objects

2. Objects Inspected from Survey

3. Objects Inspected from Digital

4. Objects Inspected from Field

5. Objects Inspected from GCP

6. Objects Inspected from Other Sources

7. Objects Inspected from Digital

8. Objects Inspected from Field

9. Objects Inspected from GCP

10. Objects Inspected from Other Sources

Responsibility:

- Photogrammetric Instructions No. 6

- Geometric Party

- Hydrographic Party

- Other Field Party

Name

Type of Action

C.W. Soll

R.B. Melby

R.B. Melby

C.W. Soll
### Photogrammetric Office
Coastal Mapping Division
AMC, Norfolk, Virginia
Officer-in-Charge
Jeffrey G. Carlen

#### I. Instructions Dated

<table>
<thead>
<tr>
<th>1. Office</th>
<th>2. Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerotriangulation</td>
<td>October 26, 1977</td>
</tr>
<tr>
<td>Compilation</td>
<td>November 17, 1977</td>
</tr>
<tr>
<td>Amendment I</td>
<td>December 5, 1977</td>
</tr>
</tbody>
</table>

#### II. Datums

1. Horizontal: **1927 North American**

2. Vertical:  
   - Mean High-Water
   - Mean Low-Water
   - Mean Lower Low-Water
   - Mean Sea Level

3. Map Projection: Lambert Conformal Conic

4. Grid(s):  
   - State: Washington  
   - Zone: North

5. Scale: 1:5,000

#### III. History of Office Operations

<table>
<thead>
<tr>
<th>Operations</th>
<th>Name</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>1. Aerotriangulation</td>
<td>S. Solbeck</td>
<td>Dec 1977</td>
</tr>
<tr>
<td>Method: Analytic</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>J. Perrow</td>
<td>Dec 1977</td>
</tr>
<tr>
<td>2. Control and Bridge Points</td>
<td>S. Solbeck</td>
<td>Dec 1977</td>
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<tr>
<td>Method: Coromat</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>J. Perrow</td>
<td>Dec 1977</td>
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<tr>
<td>Compilation</td>
<td></td>
<td></td>
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<td>Scale: 1:5,000</td>
<td>N.A.</td>
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<tr>
<td>Method: Smooth drafted</td>
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<tr>
<td>Scale: 1:5,000</td>
<td>F. Margiotta</td>
<td>Apr 1978</td>
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<tr>
<td>5. Office Inspection Prior to Field Edit</td>
<td>F. Margiotta</td>
<td>Apr 1978</td>
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<td></td>
<td>C. W. Coff</td>
<td>Apr 1980</td>
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<tr>
<td>6. Application of Field Edit Data</td>
<td>J. R. Minton</td>
<td>Apr 1980</td>
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<td></td>
<td>D. Butler</td>
<td>Jan 1984</td>
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<tr>
<td>9. Data Forwarded to Photogrammetric Branch</td>
<td>P. Dempsey</td>
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<td>10. Data Examined in Photogrammetric Branch</td>
<td></td>
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<tr>
<td>11. Map Registered - Coastal Survey Section</td>
<td>E. Daugherty</td>
<td>Sep 1975</td>
</tr>
</tbody>
</table>

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NOAA FORM 76-36A  SUPERBIDES FORM CGS 181 SERIES
U.S. GOVERNMENT PRINTING OFFICE-1977-765-092
### 1. COMPILATION PHOTOGRAPHY

**CAMERA(S):** Wild RC - 10" B" 152.74 mm  
**Focal length:** Wild RC - 10" B" 152.74 mm

#### TIDE STAGE REFERENCE:
- [ ] Predicted Tides
- [ ] Reference Station Records
- [ ] Tide Controlled Photography

#### TYPES OF PHOTOGRAPHY

<table>
<thead>
<tr>
<th>NUMBER AND TYPE</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>77B (P)7891-7892</td>
<td>Aug 1, 1977</td>
<td>14:53</td>
<td>1:15,000</td>
<td>Lake Washington chart datum +0.57 feet</td>
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<tr>
<td>77B (P)7821-7823</td>
<td>Aug 1, 1977</td>
<td>14:30</td>
<td>1:15,000</td>
<td>Lake Washington chart datum +0.57 feet</td>
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</table>

#### REMARKS
Lake Union and Lake Washington chart datum (low water of the lake is Seattle MLLW plus 20.00 feet).

### 2. SOURCE OF MEAN HIGH-WATER LINE:

The lake shore line was compiled from the above listed panchromatic photographs.

### 3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

Not applicable.

### 4. CONTEMPORARY HYDROGRAPHIC SURVEYS

(List only those surveys that are sources for photogrammetric survey information.)

<table>
<thead>
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<th>SURVEY NUMBER</th>
<th>DATE(S)</th>
<th>SURVEY COPY USED</th>
<th>SURVEY NUMBER</th>
<th>DATE(S)</th>
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</tbody>
</table>

### 5. FINAL JUNCTIONS

- **North:**  
  - No survey
  - TP-00649

- **East:**  
  - TP-00649

- **South:**  
  - No survey
  - TP-00647

#### REMARKS
TP-00647 is a partial inset of TP-00696, scale 1:10,000
## HISTORY OF FIELD OPERATIONS

### I. FIELD EDIT OPERATION

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>R. Melby</td>
<td>Aug 1977</td>
</tr>
<tr>
<td>2. HORIZONTAL CONTROL</td>
<td>R. Melby</td>
<td>Aug 1978</td>
</tr>
<tr>
<td>3. VERTICAL CONTROL</td>
<td>None</td>
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<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
<td>R. Melby</td>
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### II. SOURCE DATA

<table>
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<tr>
<th>1. HORIZONTAL CONTROL IDENTIFIED</th>
<th>2. VERTICAL CONTROL IDENTIFIED</th>
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<td>None</td>
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### III. PHOTO NUMBERS

- 77B(P)7819 thru 7823

### IV. LANDMARKS AND AIDS TO NAVIGATION

None

### V. GEOGRAPHIC NAMES

- REPORT: None

### VI. BOUNDARY AND LIMITS

- REPORT: None

### VII. SUPPLEMENTAL MAPS AND PLANS

- Plot plan of new marina on south shore of Lake Union near G.W.M. Bridge
- Plot plan of floats at Puget Sound Marina.

### VIII. OTHER FIELD RECORDS

- Field edit report
- One film ozalid with field notes
- One field book of field positions
**HISTORY OF FIELD OPERATIONS**

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>R. Melby</td>
<td>Oct 1977</td>
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<td>2. HORIZONTAL CONTROL</td>
<td>R. Melby</td>
<td>Oct 1977</td>
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<td>3. VERTICAL CONTROL</td>
<td>None</td>
<td>Oct 1977</td>
</tr>
<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
<td>L. Riggers</td>
<td>Oct 1977</td>
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**TYPE OF INVESTIGATION**
- COMPLETE
- SPECIFIC NAMES ONLY
- NO INVESTIGATION

**PHOTO INSPECTION**
- CLARIFICATION OF DETAILS BY: None

**BOUNDARIES AND LIMITS**
- SURVEYED OR IDENTIFIED BY: N.A.

**SOURCE DATA**

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<tr>
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<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
<th>STATION DESIGNATION</th>
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<td>77B7937</td>
<td>North George Washington Memorial Bridge, 1932</td>
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**PHOTO NUMBERS (Clarification of details)**
- None

**LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED**
- None

**GEOGRAPHIC NAMES**
- REPORT
- NONE

**BOUNDARY AND LIMITS**
- REPORT
- NONE

**SUPPLEMENTAL MAPS AND PLANS**
- None

**OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)**
- 1 Form 76-53, 2 Forms 155, 1 Form 76-67
### HISTORY OF FIELD OPERATIONS

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
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<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>David Actor</td>
<td>Apr 1980</td>
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<td>2. HORIZONTAL CONTROL</td>
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<td>3. VERTICAL CONTROL</td>
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<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
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<td>5. GEOGRAPHIC NAMES</td>
<td>TYPE OF INVESTIGATION</td>
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<td>6. PHOTO INSPECTION</td>
<td>CLARIFICATION OF DETAILS</td>
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<td>7. BOUNDARIES AND LIMITS</td>
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#### SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
   - None
2. VERTICAL CONTROL IDENTIFIED
   - None

3. PHOTO NUMBERS (Clarification of details)
   - 77B(P) 7820 thru 7822

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
   - None

5. GEOGRAPHIC NAMES
   - REPORT: [ ] NONE: [ ]

6. BOUNDARY AND LIMITS
   - REPORT: [ ] NONE: [ ]

#### OTHER FIELD RECORDS

- Sketch books, etc. DO NOT list data submitted to the Geodetic Division
- One field edit Ozalid
- One field edit report with ten field drawings
# RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

<table>
<thead>
<tr>
<th>Compilation Stages</th>
<th>Date</th>
<th>Remarks</th>
<th>Marine Charts</th>
<th>Hydro Support</th>
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<tbody>
<tr>
<td>Compilation complete pending field edit</td>
<td>April 1978</td>
<td>Class III Manuscript</td>
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<td>1978 field edit applied compilation complete</td>
<td>Nov. 1978</td>
<td>Class I Manuscript</td>
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<td>1980 field edit applied compilation complete</td>
<td>April 1980</td>
<td>Class I Manuscript</td>
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<td>Final Review</td>
<td>April 1985</td>
<td>Final Map</td>
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## II. LANDMARKS AND AIDS TO NAVIGATION

### 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

<table>
<thead>
<tr>
<th>Number (Pages)</th>
<th>Chart Letter</th>
<th>Date Forwarded</th>
<th>Remarks</th>
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<tr>
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<td>May 15, 1979</td>
<td>Landmarks to be Charted</td>
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<tr>
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<td>May 15, 1979</td>
<td>Landmark to be revised</td>
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<td>May 15, 1979</td>
<td>Landmark and aid to be deleted</td>
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## III. FEDERAL RECORDS CENTER DATA

1. Bridging photographs
2. Duplicate bridging report
3. Computer readouts
4. Control station identification cards
5. NOS Form 567 submitted by field parties

## IV. SURVEY EDITIONS

<table>
<thead>
<tr>
<th>Second Edition</th>
<th>Survey Number</th>
<th>Job Number</th>
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<td>Survey Number</td>
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<td>Revised</td>
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<td>Fourth Edition</td>
<td>Survey Number</td>
<td>Job Number</td>
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<td>Map Class</td>
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<td>Revised</td>
<td>Resurvey</td>
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### RECORD OF APPLICATION TO CHARTS

**FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.**

#### INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Report.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<tr>
<td>18474</td>
<td>10/13/68</td>
<td>R. S. House</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No. 2</td>
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