

00023

00023

<p>Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY</p> <h2 style="text-align: center;">DESCRIPTIVE REPORT</h2>	
<i>Type of Survey</i>	Chart Topography
<i>Field No.</i>	PH-6804
<i>Office No.</i>	TP-00023
LOCALITY	
<i>State</i>	Washington
<i>General locality</i>	Snake River,
<i>Locality</i>	Lower Monumental Pool
<u>1968-70</u>	
CHIEF OF PARTY	
Richard H. Houlder	
LIBRARY & ARCHIVES	
DATE	

ESSA FORM 76-36a (2-70)		U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMIN. COAST AND GEODETIC SURVEY		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> REVISED		SURVEY TP - <u>00023</u> JOB PH - <u>6804</u>					
DESCRIPTIVE REPORT - DATA RECORD				PHOTOGRAMMETRIC OFFICE <u>Rockville, Maryland</u>				FOR REVISED SURVEY USE ONLY ORIGINAL SURVEY DATA:			
OFFICER-IN-CHARGE <u>Richard H. Houlder</u>				JOB PH - _____ DATES: 19____ TO 19____							
I. INSTRUCTIONS DATED											
1. OFFICE <u>from Marine Chart Division</u> <u>Aerotriangulation Office</u> <u>April 3, 1968</u> <u>Jan. 8, 1969</u> <u>July 17, 1969</u>				2. FIELD <u>Field June 25, 1968</u> <u>Field Supplement I</u> <u>Aug. 21, 1968</u>							
II. DATUMS											
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)							
2. VERTICAL: <input type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input checked="" type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify) <u>Normal Pool Level 540 ft. MSL</u>							
3. MAP PROJECTION <u>Mercator</u>				4. GRID(S) STATE <u>Washington</u> ZONE <u>South</u>							
5. SCALE <u>1:10,000</u>				STATE _____ ZONE _____							
III. HISTORY OF OFFICE OPERATIONS											
OPERATIONS				NAME				DATE			
1. AEROTRIANGULATION BY <u>Analytic</u>				<u>I. I. Saperstein</u>				<u>Aug. 1969</u>			
METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY											
2. CONTROL AND BRIDGE POINTS PLOTTED BY <u>Coradi</u>				<u>P. J. Dempsey</u>				<u>Sept. 1969</u>			
METHOD: <u>Coradi</u> CHECKED BY											
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY <u>B-8</u>				<u>J. P. Battley</u>				<u>Sept. 1969</u>			
COMPILATION CHECKED BY											
INSTRUMENT: <u>B-8</u> CONTOURS BY <u>J. P. Battley</u>								<u>Sept. 1969</u>			
SCALE: <u>1:10,000</u> CHECKED BY											
4. MANUSCRIPT DELINEATION PLANIMETRY BY <u>Inked</u>				<u>M. C. Webber</u>				<u>Sept. 1969</u>			
METHOD: <u>Inked</u> CHECKED BY											
SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY				<u>M. C. Webber</u>				<u>Sept. 1969</u>			
CHECKED BY											
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY <u>J.P. Battley</u>								<u>Feb. 1970</u>			
6. APPLICATION OF FIELD EDIT DATA BY <u>M. C. Webber</u>								<u>June 1970</u>			
CHECKED BY <u>J.P. Battley</u>								<u>" "</u>			
7. COMPILATION SECTION REVIEW BY <u>J. P. Battley</u>								<u>Sept. 1969</u>			
8. FINAL REVIEW BY <u>J. P. Battley</u>								<u>June 1970</u>			
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY <u>J. P. Battley</u>								<u>Aug 1970</u>			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY <u>S.G. Blankenbaker</u>								<u>Sept. 1970</u>			
11. MAP REGISTERED - COASTAL SURVEY SECTION BY											

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) "E" 6" Focal Length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR X (P) PANCHROMATIC (I) INFRARED		ZONE <input type="checkbox"/> STANDARD MERIDIAN <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
68-E-6737 thru 6740 1:10,000 ratio 69-E-2289 thru 2292	7-1-68	14:30	1:20,000	Inapplicable	
REMARKS					

2. SOURCE OF MEAN HIGH-WATER LINE:

Normal pool level, 540 ft. MSL located by office interpretation from color photography dated July 1, 1968, and Sept. 8, 1969.

VERIFIED - FIELD EDIT, MARCH - APRIL 1970

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

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No contem. survey	TP-00025	TP-00024	TP-00022

REMARKS

Note - this is a copy of the only - 3 -

ESSA FORM 76-36c
(2-70)

field data supplied

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

HISTORY OF FIELD OPERATIONS TP-00023

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. B. Melby	March-April 1970
2. HORIZONTAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY		
3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY		
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY		
5. GEOGRAPHIC NAMES INVESTIGATION TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY		
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY		

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED 2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: REPORT NONE 6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

* submitted in 1968

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline, planimetry bathymetric contours and land contours	Sept. 1969	Advance Man. Forwarded to	April 1970	
Field Edit Applied	June 1970			

II. LANDMARKS AND AIDS TO NAVIGATION

I. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
4 pages	CL-886	7-21-70	

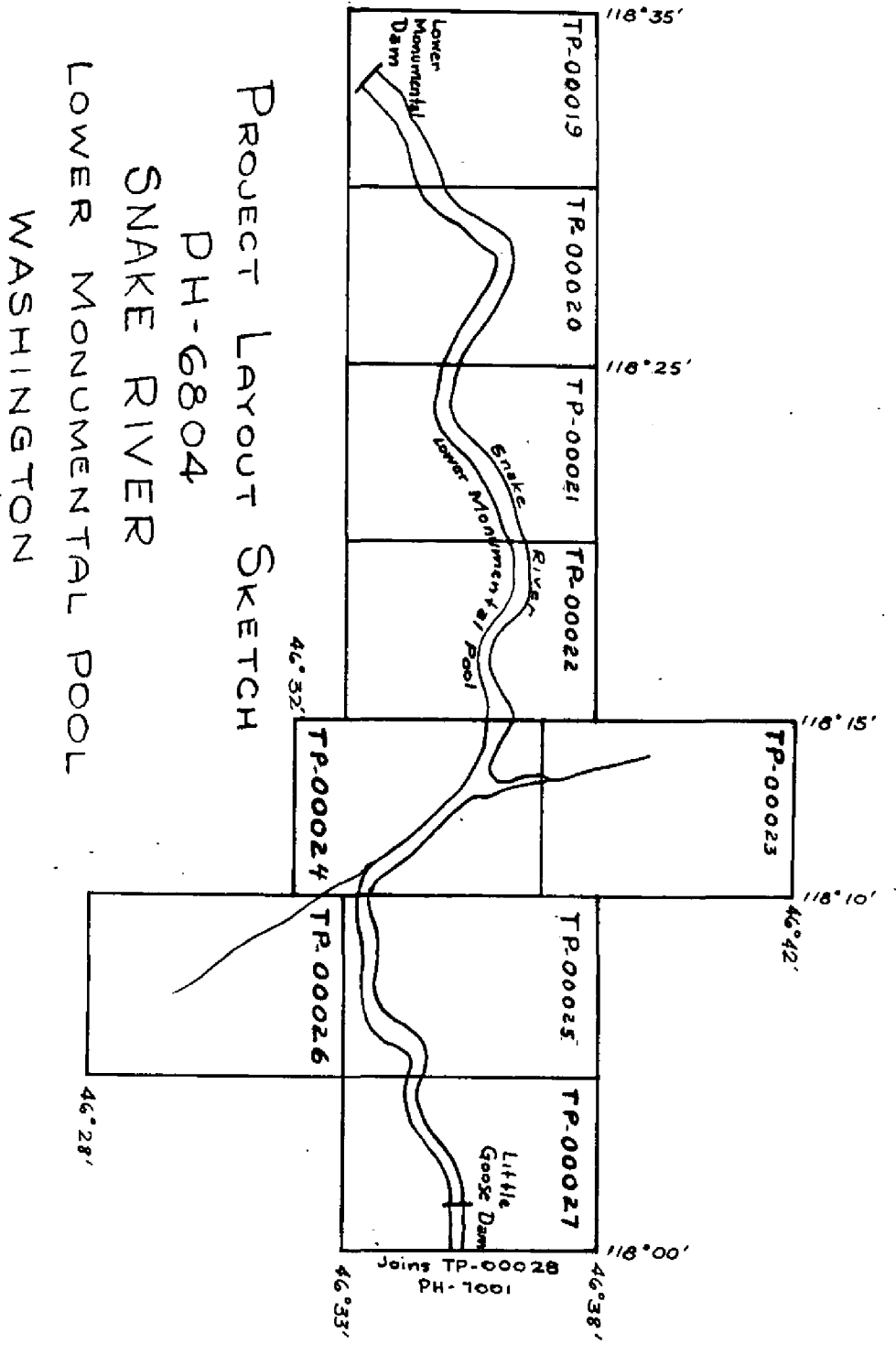
2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
2. CONTROL STATION IDENTIFICATION CARDS; FORM C&GS 567 SUBMITTED BY FIELD PARTIES.
3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, ESSA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:
4. DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: Sept. 1970

IV. SURVEY REVISION (This section shall be completed when a revised survey is registered.)

FIRST REVISION	SURVEY NUMBER	JOB NUMBER	REMARKS
	TP - (2)	PH -	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
SECOND REVISION	SURVEY NUMBER	JOB NUMBER	REMARKS
	TP - (3)	PH -	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD REVISION	SURVEY NUMBER	JOB NUMBER	REMARKS
	TP - (4)	PH -	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	



PROJECT LAYOUT SKETCH
DH-6804
SNAKE RIVER
LOWER MONUMENTAL POOL
WASHINGTON

6

Summary to Accompany
Descriptive Reports TP-00019
through TP-00027
PH-6804
June 1970

This project consists of nine chart topography manuscripts, covering the Lower Monumental Dam and Pool area on the Snake River, Washington. The manuscripts were compiled at a scale of 1:10,000 to provide the base for a new small-craft route chart, (683-SC), scale 1:20,000.

The Lower Monumental Pool was formed by impounding the water behind Lower Monumental Dam east to the Little Goose Dam.

Field operations prior to bridging included the premarking of horizontal control, selecting, photoidentifying and determining elevations of photogrammetric vertical control points, identifying and determining the elevation of features critical for charting and a geographic names investigation. This was completed in November 1968.

Bridging of the entire Pool area was completed in August 1969 by the analytical aerotriangulation method. 1:40,000 scale color diapositives were bridged and numerous points common to the 1:20,000 scale compilation photography were obtained to control these models.

Compilation was accomplished in the Washington Office in August-September 1969 utilizing 1:20,000 scale color photography taken July 1, 1968, prior to the flooding of the pool area. The normal pool level after flooding was established at 540 ft. above MSL. The river level for the area prior to flooding was approximately 440 ft. above MSL at the Lower Monumental Dam to 530' in the vicinity of Little Goose Dam. The area between the prescribed normal pool level and the prior river level was contoured on the B-8 stereoplotter at intervals compatible with required depth curves, (3', 6', 9', 12', 18', etc.) and were supplemented with spot elevations (soundings) to define shoals, gentle slopes and deep water. Rigid vertical and horizontal accuracy was maintained during compilation to comply with project instructions. Along with this bathymetry, the required chart compilation features were delineated above the 540 ft. normal pool level shoreline. This included the 600 ft. contour line for use by marine charts in correlating the compilation with existing maps.

Field edit was completed in April 1970 and encompassed the verification and/or location of aids to navigation and landmarks, a facility survey and verification of compiled features.

The application of field edit revisions and additions was completed in June 1970 for the entire project. Final review was also completed in June.

Advance copies prior to field edit had been supplied to the Small Craft Branch of the Marine Chart Division. Field edit corrections and/or additions were minimal and this afforded the Small Craft Branch more "lead time" to compile new route Chart 648-SC. Final copy will be sent to Marine Chart Division along with the facilities report.

A Registration Manuscript Copy will be registered in the Bureau Archives under their respective TP-numbers.

Submitted by,

Jeter P. Battley, Jr.

J. P. Battley, Jr.

-8-

Photogrammetric Plot Report
Job PH-6804
Snake River, Lower Monumental Pool
Washington

August 1969

21. Area Covered

This report covers the Snake River from the Lower Monumental Dam to the Little Goose Dam, consisting of nine (9) 1:10,000 scale sheets, TP-00019 thru TP-00027.

22. Method

Eight (8) strips were bridged using analytical aerotriangulation methods. Strips 1 and 2 were 1:40,000 scale color diapositives and strips 3 thru 8 were 1:20,000 scale color diapositives. Strips 1 and 2 were bridged using premarked control. The control does not appear on the 1:20,000 scale photographs as the photography was flown prior to premarking. Numerous tie points were located from the 1:40,000 scale bridge to control the 1:20,000 scale photography.

The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustments. All bridge points are on Washington South Zone plane coordinates and converted to Mercator values.

23. Adequacy of Control

All horizontal control was premarked and was adequate to control the 1:40,000 scale bridge. The field party furnished elevations to vertically control each strip of 1:20,000 scale photographs and proved very adequate.


24. Photography

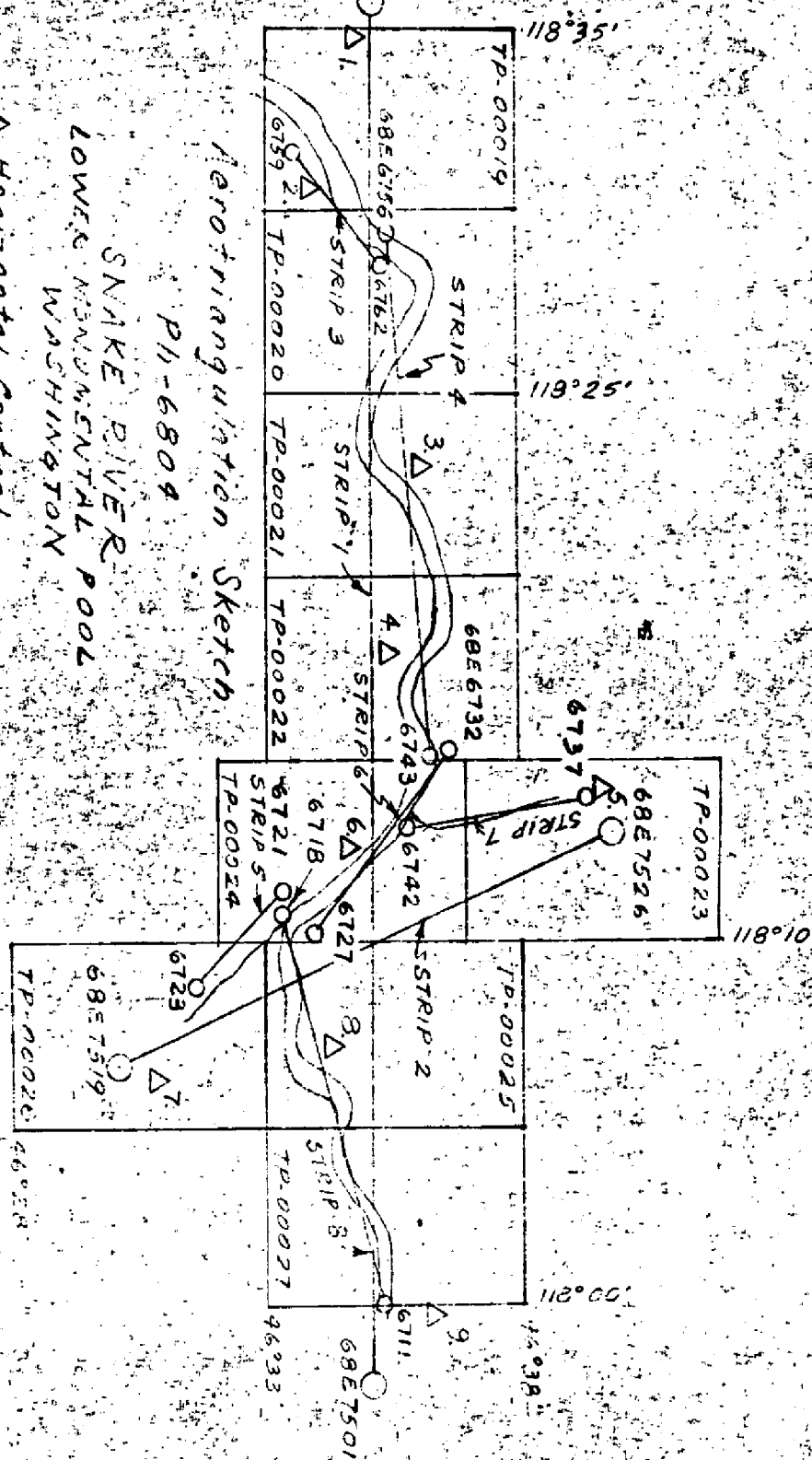
The definition and quality of the RC-8 "E" photography were good. No difficulty was encountered in the bridging of any strip.

Respectfully submitted,


I. I. Saperstein

Approved and forwarded,


Chief, Aerotriangulation
Section



Aerial triangulation Sketch
 PI-6804
 SNAKE RIVER
 LOWER MONUMENTAL POOL
 WASHINGTON

△ Horizontal Control
 ○ 1:40,000 scale color photographs
 ○ 1:20,000 scale color photographs

- 1. HUNT, 1933
- 2. HEADER (USE) 1957
- 3. AYERS, 1946
- 4. PERRY, 1946
- 5. PEARLIS, 1958
- 6. TUCANON, 1946
- 7. S. P. B. M. Z. 341 (USE) 1961
- 8. RIPARIAN, 1946
- 9. SCHMIDT, 1946

-10-

COMPILATION REPORT
TP-00023

~~Refer to Descriptive Report No. TP-00019 for Field In-
spection and Photogrammetric Plot Reports.~~

*all reports
are included in this Descriptive Report JB-8-4-70*

31. Delineation

TP-00023 is a 1:10,000 scale chart compilation manuscript covering the area of Palouse River that will be part of the Lower Monumental Pool.

Color photography, scale 1:20,000 taken July 1, 1968, was bridged and used for delineation. This photography was supplemented with 1:20,000 scale color photography taken in Sept. 1969 after the Lower Monumental Pool was flooded. 1:10,000 scale ratio prints were compared with the inked manuscript and additions or revisions were made.

A cronaflex copy and ozalid copies were ordered for this manuscript for field edit use.

After field edit is applied 1/2 reductions will be made for chart compilation at 1:20,000 scale.

32. Control

All horizontal control was premarked and adequate in density and placement.

Vertical control was of prime importance for this project as the area contoured is to be used for bathymetry (depth curves, etc.)

Excellent vertical accuracy was achieved in the bridge from numerous field identified vertical points.

(See Photogrammetric Plot Report.)

33. Supplemental Data

None used in photogrammetric compilation.

See item 63 of the Review Report

34. Contours and Drainage

Color photography at 1:20,000 scale was bridged by analytic methods and used in the B-8 stereoplotter for contouring. This photography taken in July 1968 before the pool area was flooded is of good quality and contours within the required accuracy (± 2 ft.) were obtained.

34. Contours and Drainage (continued)

Contours were drawn at prescribed intervals from the old river shoreline to 537 ft. These intervals were: 3 ft. from 540 ft. shoreline to 534 ft. contour (6' depth curve), 6 ft. intervals from 534 ft. to 510 ft. (30' depth curve) and 10 ft. intervals to the old river level.

In areas of congestion the 534 ft. and the 522 ft. (6' and 18') depth curves were given preference and contoured without feathering. The 540 ft. elevation was contoured as the shoreline at normal pool level.

35. Shoreline and Alongshore Details

The shoreline was delineated as stated in Paragraph 34. Color photography of Sept. 1969 taken after the Lower Monumental Pool was flooded was ratioed and compared with the contoured shoreline. Minor differences were noted and revised.

36. Offshore Detail

No comment.

37. Landmarks and Aids

A U. S. Coast Guard Civil Engineering blueprint was furnished for location of Aids to Navigation. This was used to help locate the Aids on the 1969 ratioed photographs. A few of the Aids could not be located and will have to be located during field edit.

Landmarks to be located during field edit.

38. Control for Future Surveys

None

39. Junctions

Junctions was made with TP-00024 to the south and is in agreement.

012-

-3-

40. Horizontal and Vertical Accuracy

Refer to Paragraph No. 23 of Photogrammetric Plot Report and Paragraph No. 32 of this report.

41. thru 45.

Inapplicable

46. Comparison with Existing Maps

Comparison has been made with USGS Quadrangle, Starbuck, Washington, scale 1:62,500, dated 1950, contour interval 40 ft.

Compilation instructions state that all detail and the 600 ft. and 700 ft. contours that have been changed above the 540 ft. pool level should tie into the existing quadrangles. Areas of change were compiled and this tie made. *Comparison was made with C. of E. Drawings, 1:6000 scale, dated Feb. 1963.*

47. Comparison with Nautical Charts

No chart exists in this area.'

This is a new chart compilation for Chart No. 683-SC.

Respectfully submitted,

John C. Richter

John C. Richter
Cartographer

Approved and forwarded,

K. N. Maki

K. N. Maki
Chief, Compilation Section

- 13 -

Review Report
TP-00023
PH-6804
June 1970

61. General Statement

TP-00023 covers the Palouse River from Palouse Falls south to junction with TP-00024. TP-00024 continues the Palouse River to its junctions with the Snake River. The 540 ft. normal pool level turns at approximately $46^{\circ}39'$ on the Palouse River. Compilation was continued up the river to include the Palouse Falls State Park area.

62. Comparison with Registered Topographic Surveys

None

63. Comparison with Maps of Other Agencies

Comparison was made with 1:62,500 scale quadrangles, HAAS, Washington, dated 1950 and Starbuck, Washington, dated 1948. These maps were used to compare planimetric features adjacent to the river, as a base for a geographic names verification and to assure correlation between the compiled 600 ft. contour, (the first index contour above the shoreline), and the G. S. topography. Comparison was also made with Corps of Engineers Reservoir Maps compiled in 1957. These maps were used to locate the approximate position of lights for subsequent photo-identification.

64. Comparison with Contemporary Hydrographic Surveys

None - this is a newly formed pool area of the Snake River.

65. Comparison with Nautical Charts

None

66. Adequacy of Results and Future Surveys

This survey complied with project instructions and excellent results were realized in maintaining the required vertical accuracy for the compiled contours and spot elevations to be used as hydrography. The survey meets the National Standards of Accuracy.

67. Geographic Names

A thorough geographic names verification was made by the 1968 field inspection party and approved by the Geographic Names Branch. A names list is included in this report.

Reviewed by,

John P. Battley Jr

Approved by,

Charles L. ...
Chief, Photogrammetric Branch *CLB*

R. G. ...
Chief, Photogrammetry Division

⁻¹⁵⁻
June 24, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6804 (Washington)
TP-00023

Palouse Falls State Park ✓
Palouse River ✓
Union Pacific Railroad ✓

Approved by:

A. J. Wraight
A. J. Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

DESCRIPTIVE REPORT CONTROL RECORD

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

MAP T-P-00023

PROJECT NO. PH-6804

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	<input checked="" type="checkbox"/> NAD 83 GRID X COORDINATE <input checked="" type="checkbox"/> NAD 83 GRID Y COORDINATE <input type="checkbox"/> UTM <input type="checkbox"/> MGRS <input type="checkbox"/> OTHER	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 MI. = 3048006 meters) FORWARD (BACK)
16- PAFALLS, 1968	Field Position	NA 1927	<input checked="" type="checkbox"/> X <input checked="" type="checkbox"/> Y 2,568,996.22 494,794.93	

COMPUTED BY I. I. Saperstein DATE 8/30/68 CHECKED BY H. P. Eichert DATE 8/31/68

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Seattle, Washington 7 April 1970

(CL-886) I

TO BE CHARTED
~~TO BE REVISION~~
~~TO BE DELETED~~ } STRIKE OUT TWO

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~future~~ ~~from~~ the charts indicated.
The positions given have been checked after listing by Lyle L. Riggers R. B. Melby

Chief of Party

STATE	CHARTING NAME	DESCRIPTION	LIGHT SYMBOL	LIGHT NO.	POSITION				DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	L.S. NO.	M.S. NO.	C.S. NO.	CHARTS AFFECTED
					LATITUDE °	LONGITUDE °	"	"							
Washington															
	PAUL Lt 4			1968.29	46 34	367.5	118 30	75.75	N. A.	Air Photo	3/26/70				
	RUXBY BEND Lt 6			1968.35	46 34	1244.0	118 29	35.0	"	TP 00020	5/26/70				
	CRUMBLE Lt 7			1968.35	46 35	307.5	118 29	110.0	"	"	"				
	HONKER Lt 9			1968.39	46 35	1602.0	118 28	76.75	"	"	"				
	STAT Lt 10			1968.41	46 35	1400.0	119 27	1182.0	"	"	"				
	MALLARD Lt 11			1968.43	46 36	1230.0	118 27	954.0	"	"	"				
	VEER Lt 13			1968.45	46 35	260.0	118 25	12.5	"	"	"				
	RAYLINE Lt 14			1968.47	46 34	1471.6	118 24	1080.5	"	TP 00021	"				
	AYER Lt 16			1968.49	46 34	1219.0	118 25	630.5	"	"	"				
	AYER Lt 17			1968.51	46 35	73.0	118 25	580.0	"	"	"				
	COURT Lt 18			1968.53	46 34	1354.5	118 22	1163.7	"	"	"				
	PALOUSE BLUFF Lt 19			1968.55	46 35	1452.5	118 22	1640	"	"	"				
	CHEW Lt 20			1968.57	46 36	225.7	118 19	1140.7	"	TP 00022	"				
	DAVIN Lt 21			1968.59	46 36	978.5	118 18	748.5	"	"	"				

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be recorded for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DELETED~~ } STRIKE OUT TWO

Seattle, Washington 7 April 1970

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~the chart~~ the charts indicated.
The positions given have been checked after listing by Lyle L. Riggers

R. B. Melby
Chief of Party

STATE	QUANTING NAME	DESCRIPTION	LIGHT ORIGINATOR L.S. NO.	POSITION		DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	SOUNDING CHART	RESOUNDING CHART	SOUNDING CHART	CHARTS AFFECTED
				LATITUDE N.P. METERS	LONGITUDE W.P. METERS							
Washington												
	PERRY Lt 22		1968.61	46 35 1731.5	118 17 1086.0	N.A.	A.V. Photo					TP00022
	PERRY Lt 24		1968.63	46 35 870.0	118 16 933.5	"	"					
	JOHN Lt 25		1968.65	46 35 1585.0	118 16 43.0	"	"					
	STEAMBOAT BEND Lt 27		1968.67	46 36 818.0	118 14 1062.7	"	TP00024					
	STEAMBOAT BEND Lt 28		1968.69	46 35 1782.8	118 14 796.5	"	"					
	PALOUSE RIVER Lt 29		1968.71	46 35 178.0	118 12 344.4	"	"					
	TUCANNON Lt 30		1968.73	46 34 626.4	118 11 861.0	"	"					
	TUCANNON RIVER Lt 32		1968.75	46 35 970.8	118 10 864.8	"	"					
	TUCANNON RIVER Lt 34		1968.77	46 35 1548.0	118 09 54.617	"	TP00025					
	HUNTERS Lt 35		1968.79	46 35 1095.0	118 08 157.5	"	Air Photo					TP00025
	TEXAS Lt 37		1968.81	46 35 1137.5	118 06 942.5	"	"					
	TEXAS Lt 38		1968.83	46 35 814.0	118 06 640.1	"	"					
	ALKALI FLAT CREEK Lt 39		1968.85	46 34 985.0	118 05 1047.0	"	"					
	RIPARIA Lt 40		1968.87	46 34 786.0	118 05 418.0	"	"					

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

19

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DELETED~~ } STRIKE OUT TWO

Seattle, Washington

7 April 1978

I recommend that the following objects which have ~~been~~ 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 Lyle L. Riggers

R.B. Melby

Chief of Ports

STATE	CHARTING NAME	DESCRIPTION	LISTED ON CHART No.	POSITION		DATUM	METHOD OF LOCATION AND SURVEY	DATE OF LOCATION	CHARTS AFFECTED			
				LATITUDE ° ' "	LONGITUDE ° ' "				HARBOR CHART	NEAR SHORE CHART	OFF SHORE CHART	
Washington												
	McGUIRE RNG RR Lt		1968 91	46 34	752.7	118 04	819.7	1927	TP 00027	3/25/70		
	McGUIRE RNG FET Lt		1968 89	46 34	782.7	118 04	619.7	"	"	"		
	McGUIRE Lt 41		1968 93	46 34	1020.7	118 04	143.6	"	"	"		
	McGUIRE Lt 43		1968 95	46 34	1505.7	118 02	177.0	"	"	"		

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-53, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted aids and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be corrected for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING ~~BEES~~ OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DELETED~~ } STRIKE OUT TWO

Seattle, Washington

7 April 1970

I recommend that the following objects which have ~~been~~ 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 Lyle L. Riggers

R. B. Melby

Chief of Party

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION		DATUM	METHOD OF LOCATION SURVEY NO.	DATE OF LOCATION	HARBOR CHART	NEARBY CHART	OFFSHORE CHART	CHARTS AFFECTED			
				LATITUDE D. M. METERS	LONGITUDE D. P. METERS										
Washington	TANK	Ht = 25 (235) *		46 55.0	787.0	118	218	1927	N.A.	Air Photo	5/31/70				
	TANK	Steel elevated Ht = 56 (122) *		46 34.7	1365.0	118	055	"	"	TP 00025	3/31/70				
		* referred to the normal pool level (540' MSL)													

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