

**LOWER GRANITE LOCK AND DAM MASTER PLAN – DRAFT**

**APPENDIX C, LOWER GRANITE LOCK AND DAM LIST OF DESIGN MEMORANDA**



## APPENDIX C

### LOWER GRANITE LOCK AND DAM LIST OF DESIGN MEMORANDA

**Table C-1. Lower Granite Lock and Dam Design Memoranda**

No.	Title	Cover Date
1	Hydrology	December 1963
2	Upper Pool Determination	April 12, 1963
3	General Design Memorandum (4 Volumes) Supplement 1 - Boundary Surveys and Marking Letter Supplement 2, Project Instrumentation	March 13, 1964 June 26, 1974 November 4, 1974
4	Concrete Aggregate Investigations	January 21, 1966
5.1	South Shore Access Road Supplement 1, Road Completion	November 18, 1965 November 13, 1969
5.2	North Shore Access Road	December 10, 1969
6	First-Step Cofferdam and Diversion Channel	April 5, 1965
7	Resident Office Facilities	January 12, 1966
8	Part 1 - Real Estate Letter Supplement 1 Part 2 - Real Estate Letter Supplement 1 Part 3 - Real Estate Part 4 - Real Estate Part 5 - Real Estate Letter Supplement 1 Letter Supplement 2	November 3, 1964 February 25, 1966 June 30, 1965 September 29, 1970 July 8, 1966 October 27, 1966 December 1, 1967 August 14, 1968 July 2, 1971
9.1	Grading and Drainage Camas Prairie Railroad Relocation Almota to Wawawai, and Damsite Shoofly	March 8, 1965
9.2	Camas Prairie Railroad Relocations, including Supplement 1	August 9, 1966
9.3	Clearwater Bridge, Camas Prairie Railroad Supplement 1, Preliminary Designs and Cost Estimates	February 28, 1967 February 1972
10	Permanent Operators' Quarters	June 6, 1966
11	Deleted	
12	Relocation Whitman County Road No. 900 Supplement 1, Design and Cost Revisions	October 31, 1966 November 23, 1971
13	Nez Perce County Roads	December 21, 1971
14	Washington State Route 12	March 24, 1972
14.1	Washington State Route 129, Clarkston to Asotin	January 13, 1972
15	Deleted	
16	Deleted	
17	Deleted	
18.1	Deleted	

No.	Title	Cover Date
18.2	Utility Modifications, City of Clarkston	January 15, 1971
18.3	Utility Modifications along the Snake and Clearwater Rivers	March 27, 1972
18.4	Utility Modifications, City of Lewiston	May 11, 1971
18.5	Utility Modifications, City of Asotin	July 15, 1971
18.6	Clarkston Sewage Treatment Plant	June 12, 1969
18.7	Relocation of Power and Telephone Facilities, River Mile 108 to River Mile 117	January 22, 1970
18.8	Deleted	
18.9	Relocations of Hatwai Irrigation Pumping Plant	February 6, 1973
19	Spillway	February 24, 1966
20	Navigation Facilities Supplement 1, Miter Gate Operating Machinery Supplement 2 - Stability Analysis, Upper Gate Bay, Monolith No. 4 Supplement 3, Hydraulic Model Studies, Filling and Emptying System Revised Supplement 4, Navigation Lock Bridge	April 7, 1966 August 11, 1966  April 22, 1968  August 5, 1969 December 19, 1980
21	Fish Facilities Supplement 1, Fish Ladder Revisions Supplement 2, Adult Fish Trapping Facilities	September 6, 1966 December 16, 1969 May 29, 1973
22	Concrete Non-Overflows	March 30, 1966
23	Powerplant, Letter Report Supplement 1, Design and Cost Revision Letter Report, Handrail Modifications and Fingerling Facility Walkway by SBA-8a Contract	November 1965 April 17, 1970  June 24, 1980
23.1	Powerplant, Units 4-6, Letter Report	October 31, 1973
24	Foundation Grouting and Drainage	June 12, 1967
25	Deleted	
26	North Abutment Embankment and Second-Step Cofferdam	January 21, 1966
27	Domestic Water Supply System	April 29, 1970
28A	Preliminary Master Plan Supplement 1, Land Requirements, Tammany State Park	April 2, 1965  July 2, 1971
28	Master Plan Letter Supplement 1, Allocation of Project Lands Supplement 1, Visitors Facilities	June 4, 1974 October 1977 April 1979
28.1	Part 1 - Temporary Marina, Tammany (Hells Gate) State Park Part 2 – Hells Gate State Recreation Area Letter Supplement 1, Contributed Funds	September 12, 1972  May 1974 December 3, 1974

No.	Title	Cover Date
	Letter Supplement 2, Deficiencies Correction by SBA-8a Contract	July 2, 1980
28.2	Swallows Park and Green Belt	March 1974 Revised July 1974
28.3	Chief Looking Glass Park	May 1974
28.4	Chief Timothy State Park and Developments at Wilma, Wawawai, Offield Canyon , Knoxway, Blyton, and Sugarloaf	March 14, 1974
28.5	Wawawai Bay Park	February 14, 1977
29	Lewiston Levee Operation and Maintenance Facilities	March 8, 1974
29.1	East Lewiston Levee Letter Supplement 1, Improvements to Lindsay Creek Intake Structure	August 4, 1972 March 14, 1980
29.2	West Lewiston Levee	April 28, 1972
29.3	North Lewiston Levee	September 18, 1970
29.4	Deleted	
29.5	Clarkston Bank Protection	July 14, 1972
29.6	Concrete Aggregate Investigation Levee Area	July 13, 1972
29.7	Levee Beautification Supplement 1, Land Acquisition Adjustments Supplement 2, Pedestrian Underpass Location Change	May 1972 November 30, 1972 February 6, 1973
29.8	Levee Instrumentation	February 26, 1973
29.9	Washington Water Power Tailrace Plug Dike	June 13, 1972
29.10	Modification, Clarkston Golf Course	April 11, 1973
30	Aircraft Landing Strip	October 12, 1965
31	Buildings, Landscaping, and Grounds	
32	Architectural Treatment	November 16, 1965
33	Lake Clearing	January 22, 1974
34	Debris Disposal Facilities Part A – Feasibility Study Part B – Trash Shear Boom at Powerhouse Intake  Part C – Feature DM, Trash Shear Booms on Upper Reservoir Part D – Debris Removal and Disposal Facilities	January 1983 December 1982 Revised April 1983
35	Offield Bar Cemetery	February 14, 1967
36	Isolated Burials at Silcott	September 11, 1968
37	CPRR and State Route Realignment, Steptoe to Wilma	November 5, 1970
38	Removal of Spillway, Washington Water Power Company Dam	April 18, 1972
39	Lake Sedimentation Ranges	May 30, 1975

No.	Title	Cover Date
40	Cost Allocation	August 1976
41	Lewiston-Clarkston Bridge Letter Supplement 1, 16th Avenue Approach, Clarkston, Washington	October 1978 January 1984
42	Feature Design, Revised Turbine Intake Screening System	December 2001
43	Feature Design: Juvenile Bypass/Holding and Loading Facilities	June 1996

**Table C-2. Lower Snake River Fish and Wildlife Compensation Plan Design Memoranda**

Title*	Date
Design Memorandum for Wildlife Habitat Development on Project Lands, Lower Snake River Project	January 1975
Special Report – Lower Snake River Fish and Wildlife Compensation Plan, Snake River, Washington and Idaho	June 1975
Design Memorandum for Wildlife Habitat Development, Supplement 1, Lower Snake River Project	April 1979
Special Report for Congress, Lower Snake River Fish and Wildlife Compensation Plan	March 1983
Design Memorandum No. 20 - Game Bird Farm Alternative, Habitat Development	April 1986
Design Memorandum for Wildlife Habitat Development, Supplement 2, Hell's Gate Habitat Management Unit	October 1987
Special Report – Wildlife Habitat Compensation Evaluation for the Lower Snake River Project	June 1991
Interim Report, Supplement to Special Report, Lower Snake River Fish and Wildlife Compensation Plan, Lower Snake River, Washington and Idaho	April 1996

\*All of the documents listed in this table are either unnumbered Design Memoranda or special reports, except for Design Memorandum No. 20.