



Lake Red Rock Project
MASTER PLAN

APPENDIX E
Design Memorandums



ENGINEERING DESIGN MEMORANDUMS RELATED TO LAKE RED ROCK

1 DM	Nov	1956	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA Design Memorandum No. 1 Hydrology and Hydraulic Analysis (GP 169-1)
2 DM	Oct	1956	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA Design Memorandum No. 2 Site Selection
3 DM	Jan	1957	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Conservation Storage, Rpt. No. 3
3 DM	Oct	1961	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Supp Rpt No. 1 Conservation Storage in Red Rock and Saylorville Reservoirs on Design Memo No. 3 Conservation Storage
4 DM	Jan	1958	Red Rock Reservoir, Howell Dam Site, General Design Memo, Rpt. No. 4
4 DM	Jan	1966	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Supp No 1 Boundary Surveys and Marking on Design Memo No 4, General Design Memo
6 DM	Jun	1959	Red Rock Reservoir, Earth Embankment Sections, Rpt. No. 6 (GP169-6)
7 DM	Aug	1960	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Wabash & Chicago, Burlington & Quincy Railroad Relocation, Rpt No. 7 (GP169-7)
7 DM	Mar	1962	Red Rock Reservoirs, Howell Dam Site, Des Moines River, IA; Additional Railroad Data & Attorneys Report (GP169-8)
8 DM	May	1961	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Chicago, Rock Island and Pacific Railroad Relocation (GP169-9)
8 DM	May	1962	Red Rock Reservoir Design Memorandum No. 8 Chicago, Rock Island and Pacific Railroad Relocation (19 May 1961); Supplement No. 1 Additional Design Data (2 May 1962)
9 DM	May	1960	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Dam – Overflow and Concrete Non-Overflow Sections (GP169-10)
9 DM	Oct	1960	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Sup No. 1 – Electrical & Mechanical Equipment Slide Gates and Ventilating System – to Rpt. No. 9 (GP169-11)
9 DM	May	1960	Red Rock Reservoir, Approach Channel Wall Design, Rpt. No. 9 (GP223-23)
10 DM	Oct	1960	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Relocations – Iowa State Highways (GP169-12)
10 DM	May	1961	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Additional Data on Relocation of Iowa State Hwy (GP169-13)
10 DM	May	1962	Red Rock Supplement No. 2 Attorney's Report Design Memorandum No. 10 Relocations-Iowa State Highways
10 DM	May	1962	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA Supplement No. 3 Iowa State Highway No. 181 to Design Memorandum No. 10 Relocations - Iowa State Highways
11 DM	Nov	1965	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Reservoir Clearing (GP169-14)
13 DM	Jan	1960	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Geology and Soils (GP169-16)
14 DM	May	1967	Red Rock Reservoir, Des Moines River, IA; Administration Building (GP169-17) (Rev. May 1967)
14 DM	Mar	1970	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Mods to Proposed Admin. Building and Storage Facilities (GP169-18)
14 DM	Sep	1971	Red Rock Lake and Dam, Des Moines River, IA; Design Analysis for Water Supply and Waste Treatment Facilities (GP192A-26a)
15 DM	Apr	1962	Red Rock Reservoir Supplement No. 1 Attorney's Report to Design Memorandum No. 15 Relocation - Marion County Roads
15 DM	Apr	1962	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Relocations – Marion County Roads (GP169-20)
15 DM	May	1962	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Relocations – Marion County Roads (GP169-21) Bridge & Embankment Data
15 DM	Sep	1963	Red Rock Reservoir, Supplement No. 3 to DM No. 15, Relocations Marion County Roads (GP169-22)
15 DM	Nov	1962	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Supp No. 3 Mod of Items of relocation to Design Memo No. 15, Relocations – Marion County Roads (GP169-22)
15 DM	Aug	1967	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Relocations, Marion County Roads (GP169-23) Additional. Information on Relocation Item 29
15 DM	Jul	1960	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Rerouting County Road “P” Across Dam, Rpt. No. 15A (GP169-24)
16 DM	Sep	1962	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; relocations – Warren County Roads, Rpt. No. 16 (GP169-25)
16 DM	Oct	1963	Red Rock Reservoir, Howell Dam Site, Des Moines, IA; Mod of Items of Relocations, warren County Roads (GP169-26)
16 DM	Sep	1961	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Relocations – Marion County Road J and Warren and Polk Counties Road R, Rpt. No. 16A (GP169-27)
16 DM	Feb	1962	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Sup No. 1 Attorney’s Report to Rpt. No. 16A (GP169-28)
16 DM	May	1962	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Sup No. 2 Additional Design Data to Rpt. No. 16A (GP169-29)
17 DM	Dec	1961	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Relocations – Jasper County Roads, Rpt. No. 17 (GP169-30)
17 DM	May	1962	Red Rock Reservoir Howell Dam Site Des Moines River, IA Supplement No. 1 Additional Bridge Data To Design Memorandum No. 17 Relocations-Jasper County Roads
18 DM	Jul	1962	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Relocations – Polk County Roads, Rpt. No. 18 (GP169-31)
19 DM	Apr	1963	Red Rock Reservoir, Relocations – Municipal Water Supply Systems, Rpt No. 19 (GP169-32)
19 DM	Mar	1966	Red Rock Reservoir, Knoxville Water Supply System (GP169-33)
19 DM	Jul	1975	Red Rock Dam and Lake Red Rock, Des Moines River, IA; Relocation of Municipal Water Supply System (GP169-33A)
20 DM	Apr	1963	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Relocations – Electric Power Lines (GP169-34)



20 DM	Apr	1963	Red Rock Reservoir Design Memorandum No. 20A Relocations-Electric Power Lines Pella Cooperative Electric Assoc.
20 DM	Oct	1963	Red Rock Reservoir, Des Moines River, IA; Relocation – Electric Power Lines (GP169-35)
21 DM	Jun	1963	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Relocations – Telephone Lines (GP169-36)
21 DM	Jun	1963	Red Rock Reservoir Design Memorandum No. 21A Relocations-Telephone Lines Fowler Telephone Company Iowa Western Telephone company Bellamy Telephone Company
21 DM	Sep	1963	Red Rock Reservoir, Relocations – Telephone Lines, Rpt. No. 21B (GP169-37) Northwestern Bell Telephone Company)
22 DM	Mar	1963	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Relocations – Natural Gas Pipe Lines, Rpt. No. 22A (GP169-38)
22 DM	Apr	1964	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Relocations – Natural Gas Pipeline Iowa Power and Light Company (GP 169-39)
23 DM	Jan	1965	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Southeast Des Moines Remedial Works, No. 23 (GP169-40)
23 DM	May	1967	Red Rock Reservoir, Des Moines River, IA; Supp 1 to Design Memo 23 Southeast Des Moines Remedial Works
24 DM	Mar	1959	Red Rock Reservoir Howell Dam Site Des Moines River, IA Preliminary Master Plan
24 DM	May	1965	Red Rock Master Plan Report
24 DM	May	1965	Red Rock Reservoir Howell Dam Site Des Moines River, IA Supplement No. 2 Land Requirements to Design Memorandum No. 24A Preliminary Master Plan
24 DM	Jul	1965	Red Rock Dam and Lake Red Rock Des Moines River, IA Real Estate Memorandum No. 5M Land Requirements to Preliminary Master Plan
24 DM	Apr	1967	Red Rock Reservoir Howell Dam Site Des Moines River, IA Design Memorandum No. 24B Master Plan for Resource Management Appendix E Plates (Orig'l Plates dated Apr 1967, Rev. Plates dated Sep 1972)
24 DM	Jun	1967	Red Rock Reservoir Howell Dam Site Des Moines River, IA Design Memorandum No. 24B Master Plan for Resources Management Appendix D Proposed Recreational Development by Marion County, IA
24 DM	Feb	1968	Red Rock Reservoir Howell Dam Site Des Moines River, IA Design Memorandum No. 24B Supplement No. 1 Master Plan for Resource Management (Plates)
24 DM	Sep	1971	Red Rock Reservoir, Howell Dam Site, Des Moines Rive, IA; Sup No. 1A to Rpt. No. 24B – Master Plan for Resource Management (GP169-42.1)
24 DM	Oct	1972	Red Rock Dam and Lake Red Rock Project Des Moines River, IA Appendix "B" Forest Management Plan (Including Fire Protection Plan)
24 DM	Dec	1976	Resource Master Plan Design Memorandum No. 24B Red Rock Dam Lake Red Rock Multi-Purpose Project Des Moines River Basin Des Moines River, IA
24 DM	Dec	1976	Resource Master Plan Design Memorandum No. 24B Red Rock Dam Lake Red Rock Multi--Purpose Project Des Moines River Basin Des Moines River, IA (Plates)
24 DM	Jan	1978	Red Rock Dam, IA; Recreation Facilities, Rpt. No. 24C (GP42-2)
24 DM	Jan	1978	Feature Design Memorandum for Recreation Facilities Design Memorandum No. 24C Red Rock Dam Lake Red Rock (Elk Rock State Park)
24 DM	Aug	1978	Red Rock Project Office Installation Master Plan
24 DM	Oct	1979	Lake Red Rock Master Plan Appendix D Fish and Wildlife Management Plan
24 DM	Sep	1979	Lake Red Rock Master Plan Appendix A Project Resource Management Plan
24 DM	Jun	1980	Appendix C to the Master Plan Fire Protection Plan Lake Red Rock
24 DM	May	1981	Installation Mater Plan Lake Red Rock rev. 1982
24 DM	Nov	1982	Forest Management Plan for Lake Red Rock Appendix B to Design Memorandum 24B
24 DM	Oct	2011	Supplement 1 DM 24B Hickory Ridge Acceptance, Classification and Development Plan
27 DM	Oct	1960	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Automatic Reporting Gages and Communication Link, Rpt. No. 27 (GP169-43)
28 DM	Jan	1965	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Cemetery Relocations (GP 169-44.1)
28 DM	Jan	1965	Red Rock Reservoir Design Memorandum No. 28 Cemetery Relocations Supplement No. 1
29 DM	Aug	1963	Operators' Quarters
30 DM	Oct	1964	Red Rock Reservoir, Howell Dam site, Des Moines River, IA; Remedial Works – Avon Station Rpt. No. 30 (GP169-47)
30 DM	Nov	1965	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Seepage and Ground Water Control, Remedial Works, Avon Station, Sup. No. 1 to DM No. 30(GP169-47.1)
31 DM	Sep	1965	Red Rock Reservoir, Des Moines River, IA; Remedial Works – Carlisle (GP169-48)
32 DM	Sep	1966	Red Rock Reservoir, Howell Dam Site, Des Moines River, IA; Relocations – Roads and Utilities, Town of Pleasant Hill (GP169-49)
32 DM	Mar	1967	SE Des Moines, SW Pleasant Hill Remedial Works (GP125-45A)

GREENBELT DESIGN MEMORANDUMS RELATED TO LAKE RED ROCK

	Jan	1991	Des Moines Recreational River and Greenbelt Feature Design Memorandum #6 with Environmental Assessment Multi-purpose Trail Red Rock, Segment II
	Mar	1993	Des Moines Recreational River and Greenbelt Feature Design Memorandum #9 with Environmental Assessment Red Rock Multi-Purpose Trail Segment 3, (Rev. May 1993)
	Mar	1995	Des Moines Recreation River and Greenbelt, Feature Design Memorandum #10 with Environmental Assessment, Red Rock Multi-Purpose Trail, Segment 4, Lake Red Rock, IA

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