

SUNSET DAM INFORMATION REPORT

A340.903

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PROJECT TITLE: Sunset Dam

1988 Revisions

WATERSHED AND RELATIONSHIP TO OTHER STRUCTURES:

On Sunset Wash, a tributary to the Hassayampa River. It is located about one mile north of Sunnycove Dam.

LOCATION: Township, range, section; description from well known physical feature; how to get there.

T7N, R5W, Section 11. It is located in the eastern portion of Wickenburg about one mile west from downtown. It lies to the south of SR 60 and east of Mariposa Drive, behind the Jones FORD dealership.

AUTHORIZATION: Watershed Protection and Flood Prevention Act, Public Law 566

FEDERAL SPONSOR: Soil Conservation Service

LOCAL SPONSOR(S): Flood Control District of Maricopa County

DOCUMENTATION: (e.g., Watershed Workplan title/date; supplements, EIS, Date approved)

CONTRACTOR: M. M. Sundt Construction Company

DATE OF CONSTRUCTION AWARD: March 22, 1976

DATE OF FINAL ACCEPTANCE: September 15, 1976

FUNCTIONAL DESCRIPTION: How it works.

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This structure collects runoff in Sunset Wash and conveys it via a 30" pipeline to a wash below Wickenburg which flows into the Hassayampa River. The intake structure has an 18" x 18" gated opening at streambed level and also functions as a drop inlet with an open top to permit discharge for flows in excess of normal. A concrete spillway structure has been constructed.

PROJECT FEATURES:

Type of structure	zoned, modified homogeneous
Top of structure elevation	2141.5
Length of structure	488 feet

Maximum height	30.5 feet
Top crest width	14 feet
Spillway crest elevation	2131.00
Spillway capacity	3,400 cfs
Drainage area	0.6 square mile
Storage capacity	55 acre feet ^z
Maximum water elevation	2134.7
Freeboard	10.5 feet
Peak inflow	3,393 cfs
Peak outflow	2,381 cfs
Draw down time	10 days
Principal outlet discharge rate	8.7 cfs
Principal outlet structure	30" RCP intake tower with high and low stage inlets.

Low stage = 18" x 18"
High stage = drop inlet

LEVEL OF PROTECTION:

STORAGE:	SPILLWAY
100-year storm	PMF

TOTAL COST FOR BOTH SUNSET AND SUNNYCOVE DAMS:

COSTS:

FEDERAL:	\$776,700
LOCAL: Land, relocations, engineers; total	\$150,000

ADWR OPERATIONAL CERTIFICATES ISSUED: February 22, 1977

DAM SAFETY STATUS:

ENCLOSURES: SITE MAP (attached)
STAGE STORAGE CURVE
STAGE DISCHARGE SUMMARY
AREA AND CAPACITY CURVE (attached)

MAINTENANCE RESPONSIBILITIES

STRUCTURE:

Sunset Dam
6A340

Access Ladder		each
Bank Protection - Riprap	289.4	sq yds
Bank Protection - Grouted Riprap		sq yds
Bank Protection - Soil Cement		sq yds
Bank Protection - Shot Crete		sq yds
Bridges - Pedestrian		each
Bridges - Vehicle		each
Culverts, Box		each
Culverts, Pipe	1	each
Curb - Concrete		feet
Curb & Gutter - Concrete		feet
Dip Crossings (Asphalt)		each
Drainage Channel - Lined		feet
Drainage Channel - Lined Covered		feet
Drainage Channel - Lined Soil Cement		feet
Drainage Channel - Lined Shot Crete		feet
Drainage Channel - Lined (Riprap)		feet
Drainage Channel - Lined (Gr Riprap)		feet
Drainage Channel - Unlined		miles
Drop Structure	1	each
Embankment, Dirt	2.1	acres
Embankment, Soil Cement		acres
Energy Dissipator		each
Erosion Protection (Conc. Paving)		sq ft
Fencing - Chain Link	650	feet
Fencing - Concrete Block		feet
Fencing - Wire	715	feet
Fencing - Wrought Iron		feet
Floodway - Lined		feet
Floodway - Lined Soil Cement		feet
Floodway - Lined Covered		feet
Floodway - Lined (Riprap)		feet
Floodway - Lined (Gr Riprap)		feet
Floodway - Unlined		acres
Gabions		sq yd
Gated Outlet		each
Gates - Horse		each
Gates - Pipe	3	each
Gates - Wire		each
Gates - Wrought Iron		each
Grade Control Structure		each
Guardrail		feet
Gutters, Concrete		feet
High Flow		acres
Landscaping/Erosion Control	4.1	acres
Irrigation Heads		each
Irrigation Controls		each
Irrigation Lines		feet
Plantings		each

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Low Flow - Paved		each
Low Flow - Structures	2.7	acres
Manholes		each
Meter Houses		each
Outlet Structure		each
Pilot Channel - Gila River		feet
Pool Area	8	acres
Principal Outlet	1	each
Principal Outlet - Pipe	187	feet
Railing - Pipe		feet
Ramps - ABC		feet
Ramps - Asphalt		feet
Ramps - Concrete		feet
Ramps - Earth		feet
Ramps - Grouted Riprap		feet
Ramps - Soil Cement		feet
Retaining Wall		feet
Right-of-Way	18	acres
River Clearing		acres
Roads - ABC		miles
Roads - Asphalt		miles
Roads - Dirt	.3	miles
Sediment Basins	1	each
Side Inlet - Concrete		each
Side Inlet - Drop	1	each
Side Inlet - Flap Gate		each
Side Inlet - Grouted	2	each
Side Inlet - Overflow		each
Side Inlet - Pipe	1	each
Spillway - Earth		acres
Spillway - Lined	44	feet
Stormdrain Pipe		feet
Trash Racks	3	each
Underpass Pedestrian		each
Vegetative Drains		each

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MAINTENANCE RESPONSIBILITIES

STRUCTURE:

Sunset & Sunny Cove

Pipeline 6A342

Access Ladder		each
Bank Protection - Riprap	13.6	sq yds
Bank Protection - Grouted Riprap		sq yds
Bank Protection - Soil Cement		sq yds
Bank Protection - Shot Crete		sq yds
Bridges - Pedestrian		each
Bridges - Vehicle		each
Culverts, Box		each
Culverts, Pipe		each
Dip Crossings (Asphalt)		each
Drainage Channel - Lined		feet
Drainage Channel - Lined (Riprap)		feet
Drainage Channel - Lined (Gr Riprap)		feet
Drainage Channel - Unlined	.2	miles
Drop Structure		each
Embankment, Dirt		acres
Embankment, Soil Cement		acres
Energy Dissipator		each
Erosion Protection (Conc. Paving)		sq ft
Fencing - Wire		feet
Fencing - Wrought Iron		feet
Floodway - Lined		feet
Floodway - Lined (Riprap)		feet
Floodway - Lined (Gr Riprap)		feet
Floodway - Unlined		acres
Gabions		sq yd
Gated Outlet		each
Gates - Wire		each
Gates - Wrought Iron		each
Gates - Pipe		each
Grade Control Structure		each
Guardrail		feet
Gutters, Concrete		feet
High Flow		acres
Landscaping/Erosion Control		acres
Irrigation Heads		each
Irrigation Controls		each
Irrigation Lines		feet
Plantings		each
Low Flow - Structures		acres
Manholes	9	each
Meter Houses		each
Outlet Structure	1	each

Sunset & Sunny Cove Pipeline 6A342

Pilot Channel - Gila River		feet
Pool Area		acres
Principal Outlet		each
Principal Outlet - Pipe		feet
Railing - Pipe		feet
Ramps - Asphalt		feet
Ramps - Concrete		feet
Ramps - Earth		feet
Ramps - Grouted Riprap		feet
Ramps - Soil Cement		feet
Retaining Wall		feet
Right-of-Way	3.5	acres
River Clearing		acres
Roads - Asphalt		miles
Roads - Dirt	1.4	miles
Sediment Basins		each
Side Inlet - Concrete		each
Side Inlet - Drop		each
Side Inlet - Flap Gate		each
Side Inlet - Grouted		each
Side Inlet - Pipe		each
Spillway - Earth		acres
Spillway - Lined		feet
Stormdrain Pipe	7624	feet
Trash Racks		each
Vegetative Drains		each

Rev. 3/16/88