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APPROVED
by the Board of Directors of
The Metropolitan Water District
of Southern California
at its meeting held

JAN 10 1995

7-5

EXECUTIVE SECRETARY

MWD
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

December 27, 1994

To: Board of Directors (Engineering and Operations Committee--Action)
(Finance and Insurance Committee--Action)

From: General Manager

Subject: Appropriation No. 701 in the Amount of $600,000 for Metropolitan's Share of Slope Repair Costs at San Joaquin Reservoir, and Authorization for General Manager to Enter into Agreement with the San Joaquin Reservoir Advisory Committee to Have the Irvine Ranch Water District Administer the Slope Repair Project

RECOMMENDATION:

It is recommended that the General Manager be authorized to enter into an agreement that would allow Irvine Ranch Water District (IRWD) to administer a slope repair project, on behalf of the San Joaquin Reservoir Advisory Committee, at the San Joaquin Reservoir.

Authorize Appropriation No. 701 in the amount of $600,000, from the Pay-As-You-Go Fund to finance Metropolitan's share of the repairs for this jointly owned and operated reservoir.

APPROVAL OF REQUEST:

John R. Wodraska
General Manager

Submitted by:

Gary M. Snyder
Chief Engineer

Concur:

John R. Wodraska
General Manager

GDB:aj/rs
(apr-701A.doc)

CAPITAL FUNDING REQUEST			
PROJECT NAME: SAN JOAQUIN RESERVOIR SLOPE REPAIR			
APPROPRIATION NO.: 701	**FUNDING REQUEST NO.** NEW		**AMOUNT:** $600,000
SOURCE OF FUNDS:	PAY-AS-YOU-GO FUND		
FY 94/95 Budget: No ☒ Yes ☐		Capital Program	Page No. Reference:

Project Justification and Type: (check all applicable)

- ☐ meet water demands
- ☐ mandated by law
- ☐ cost avoidance
- ☒ Other repair

- ☐ new facility
- ☐ improvement

- ☐ replacement
- ☐ expansion

PROJECT DESCRIPTION (INCLUDE CLASSIFICATION AND PURPOSE):

In February 1994 during dewatering, a slope failure was discovered in the San Joaquin Reservoir. Extensive cracks were observed along the west facing slope. The geotechnical report recommends that the failure be stabilized by constructing a buttress fill inside the reservoir. The fill material would be obtained from a peninsula within the reservoir, thus reconfiguring the reservoir.

As one of eight agencies on the San Joaquin Reservoir Advisory Committee, each with varying degrees of ownership, Metropolitan's 9.84 percent share of the approximately $6,000,000 necessary to make the repairs is $600,000. Metropolitan and the other Committee agencies would enter into an agreement that would have IRWD administer the project; thus, Committee agencies would pay their share of the actual project costs to IRWD. The entire project is expected to take from nine to twelve months.

Class: One---Projects directly related to the delivery of water, required for health and safety, or mandated by governmental requirements.

STRATEGIC PLAN PRINCIPLE: **2.4 Corrective Maintenance**

BENEFIT (NARRATIVE FOR DIRECT AND OTHER BENEFITS):

The buttressing of the reservoir will prevent slope failure at the reservoir.

PROJECT PLAN:

PROJECT	COST			1994	1995	1996
DESIGN, CONST.	$ 600,000	0% COMPLETE;	$0 SPENT			
TOTAL	**$600,000**	**0%** COMPLETE;	**$ 0** SPENT			

ALTERNATIVES TO PROPOSED ACTION:

There are no viable alternatives to this project.

POLICY CONSIDERATIONS:

NONE

CEQA COMPLIANCE / ENVIRONMENTAL DOCUMENTATION

IRWD as the lead agency has posted an emergency notice of exemption under the provisions of the California Environmental Quality Act. No additional environmental documentation is required at this time.

FINANCIAL ANALYSIS (NEW PROJECTS ONLY)

EVALUATION PERIOD: 2 YEARS

A. PROJECTED COSTS (CAPITAL AND O&M):

	YEAR 1	YEAR 2	YEAR 3	OUT YEARS	TOTAL
LABOR/ADDITIVES	$ 12,000	$ 13,000	0	0	$ 25,000
PROFESSIONAL SERVICES	15,000	0	0	0	15,000
CONTRACT	110,000	346,000	0	0	456,000
OTHER	8,000	6,000	0	0	14,000
CONTINGENCY	0	90,000	0	0	90,000
TOTAL	$ 145,000	$ 455,000	0	0	$ 600,000

B. PROJECTED SAVINGS:

	YEAR 1	YEAR 2	YEAR 3	OUT YEARS	TOTAL
LABOR/ADDITIVES	$ 0	0	0	0	0
PROFESSIONAL SERVICES	0	0	0	0	0
OTHER	0	0	0	0	0
TOTAL					

C. DIFFERENCE (B-A	$ (145,000)	$ (455,000)	0	0	$ (600,000)
D.; CUMULATIVE DIFFERENCE	$ (145,000)	$ (600,000)	0	0	$ (600,000)

PAYBACK PERIOD: N/A ESTIMATED LIFE OF PROJECT: N/A

ASSUMPTIONS:

All agencies on the San Joaquin Reservoir Advisory Committee are to enter into an agreement ensuring their financial commitment and to obtain funding for their portions of the slope repair prior to any Metropolitan funds being expended.

FINANCIAL STATEMENT

(Program No. 5-7010-21)

A breakdown of the costs for design and construction to correct the slope at the San Joaquin Reservoir is as follows:

Labor:	Cost Estimate
Engineering	$ 24,000
Environmental Planning	$ 1,000
Total Labor	$ 25,000
Incidental Expenses	$ 1,000
Professional/Technical	15,000
Administrative Overhead	13,000
Contracts	456,000
Contingencies	90,000
Total	$ 600,000

Source of Funds: Pay-As-You-Go Fund

Projected Expenditure of Funds:

Through Fiscal Year 1994/95	$145,000
Fiscal Year 1995/96	$455,000
Total	$600,000

1994/95 Capital Program:

Funds were not included in the Fiscal Year 1994/95 Capital Program. However, this work is required to assure the continued viability of the San Joaquin Reservoir.

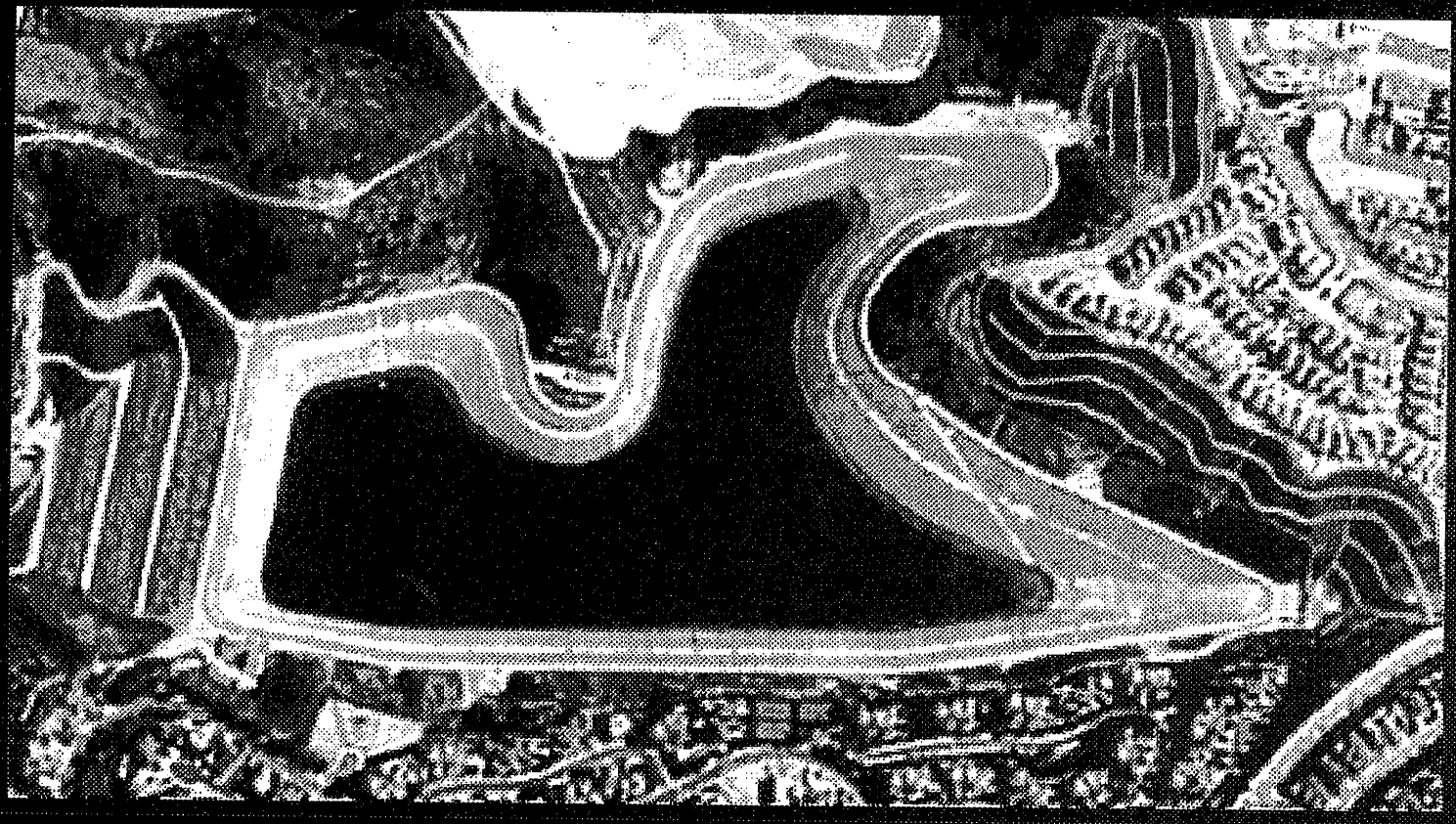
Class:

One--Projects directly related to the delivery of water, required for health and safety, or mandated by governmental requirements.

Project Benefit:

The buttressing of the reservoir will prevent slope failure at the reservoir.

SAN JOAQUIN RESERVOIR



EXISTING CONDITIONS

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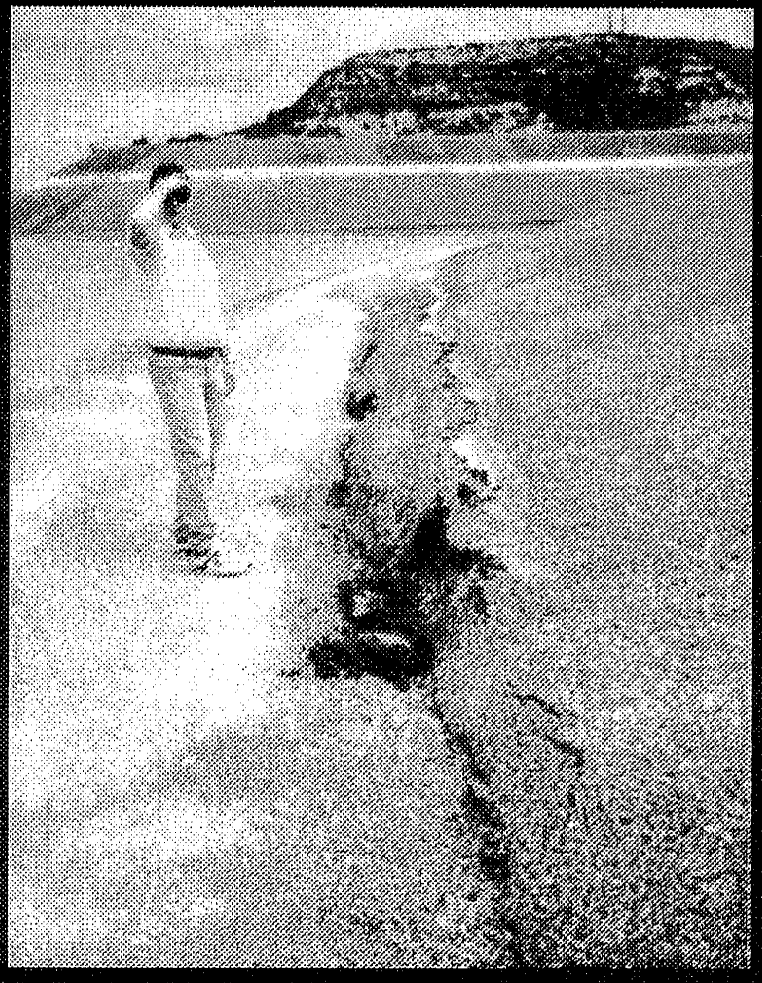
SAN JOAQUIN RESERVOIR



BULGES IN ASPHALT

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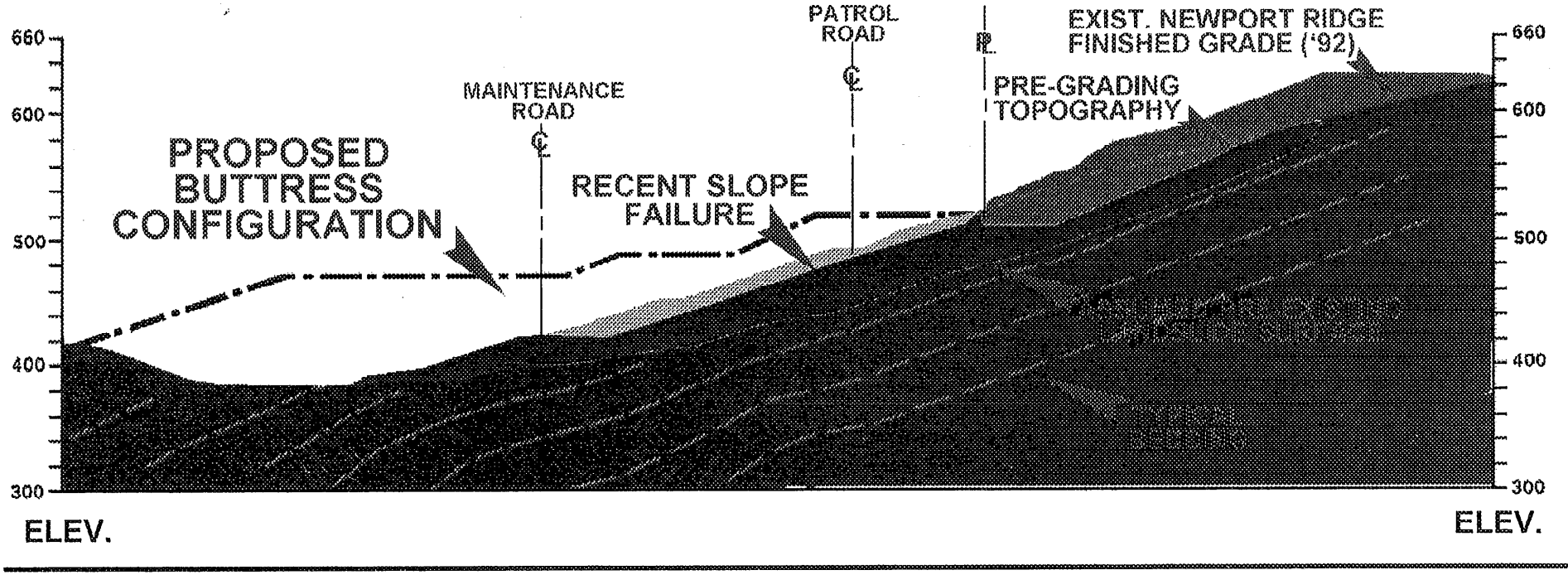
SAN JOAQUIN RESERVOIR

GEOLOGIC CROSS SECTION



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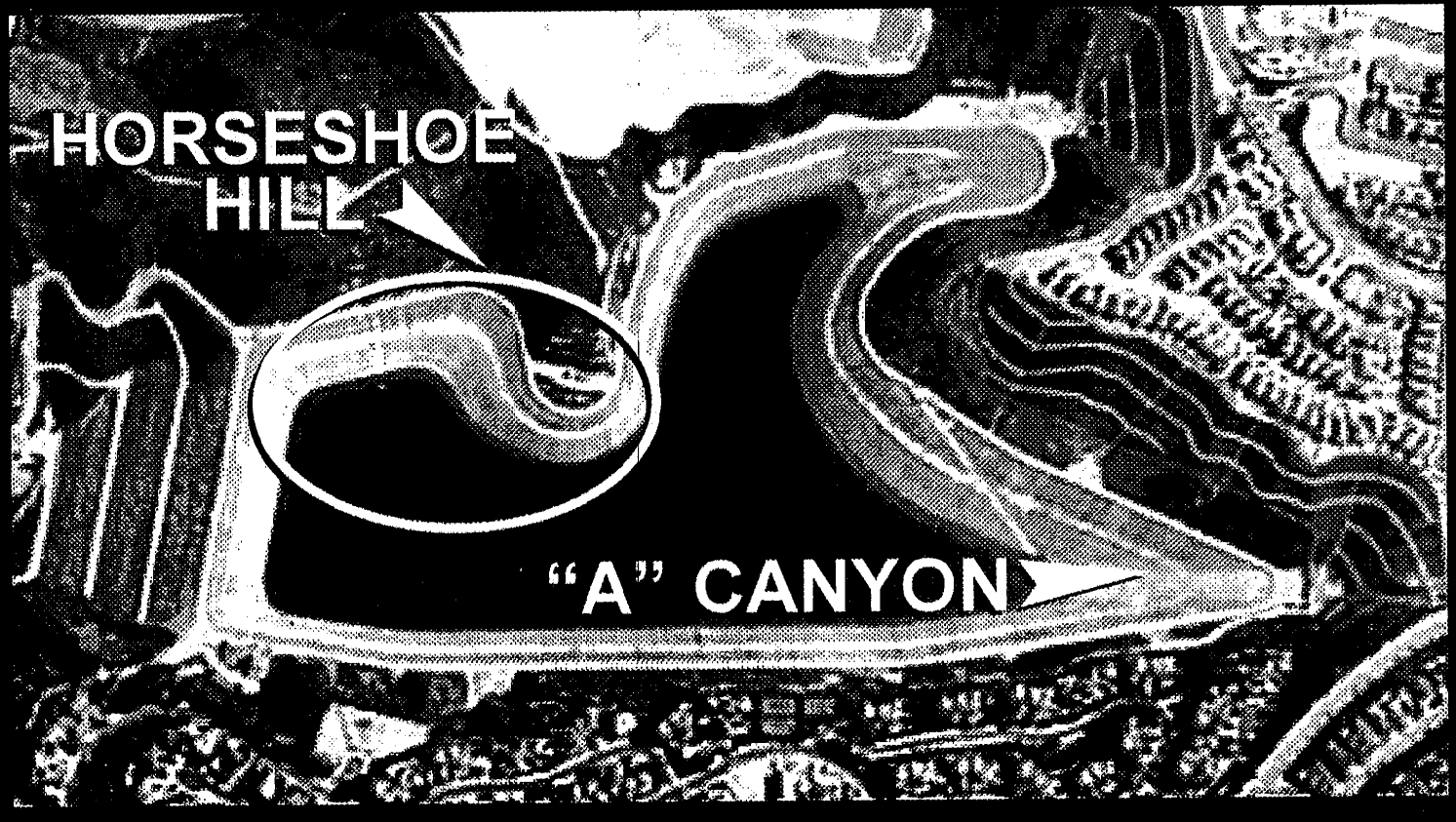

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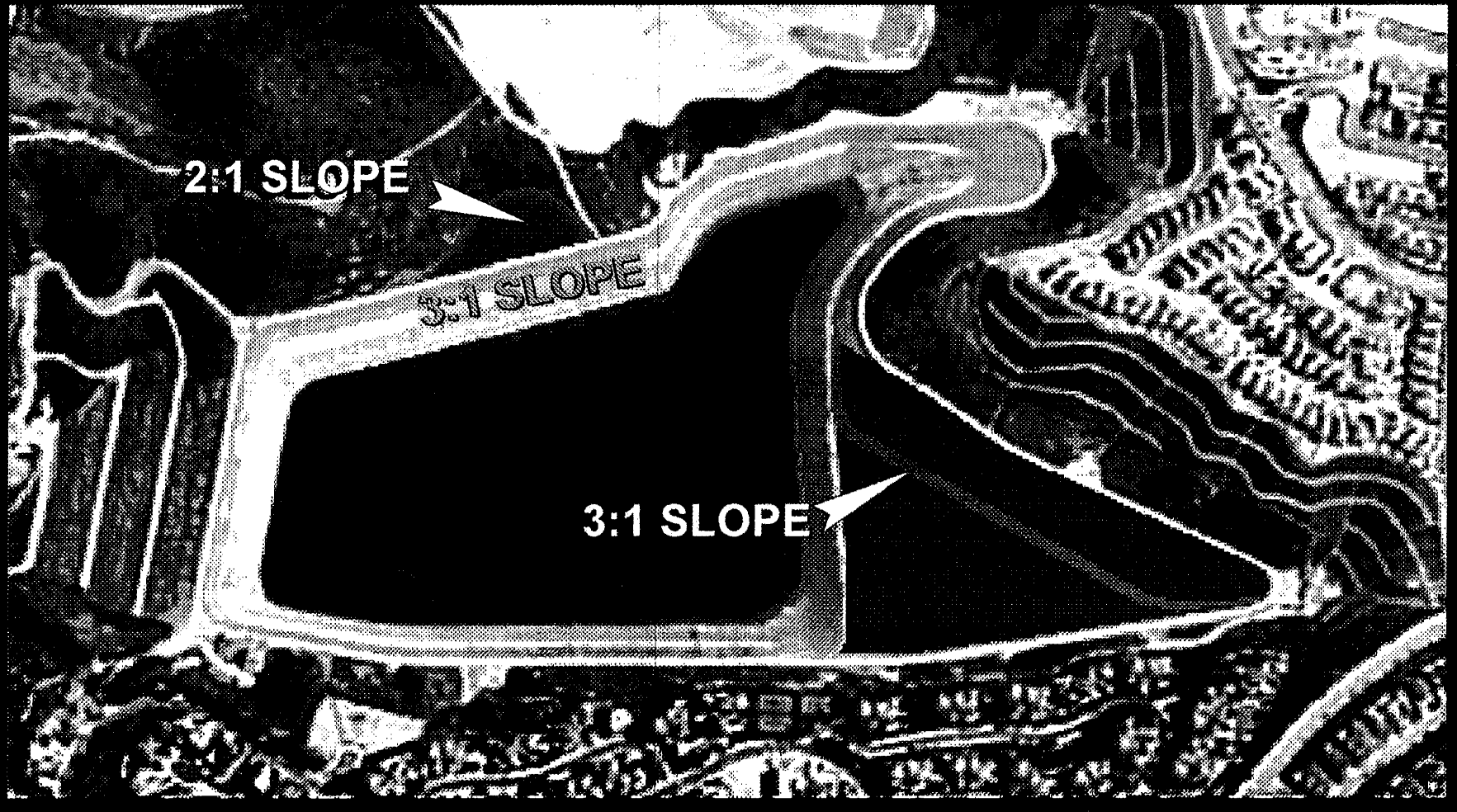

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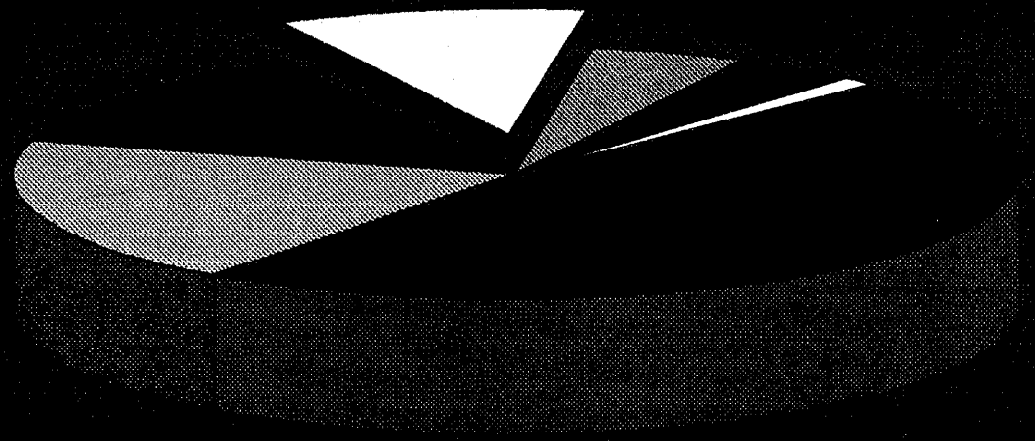
SAN JOAQUIN RESERVOIR

METROPOLITAN'S SHARE OF COST

- IRVINE RANCH WATER DISTRICT
- MESA CONSOLIDATED WATER DISTRICT
- CITY OF HUNTINGTON BEACH
- SOUTH COAST WATER DISTRICT
- THE IRVINE COMPANY
- CITY OF NEWPORT BEACH
- LAGUNA BEACH COUNTY WATER DISTRICT
- METROPOLITAN WATER DISTRICT 9.84%



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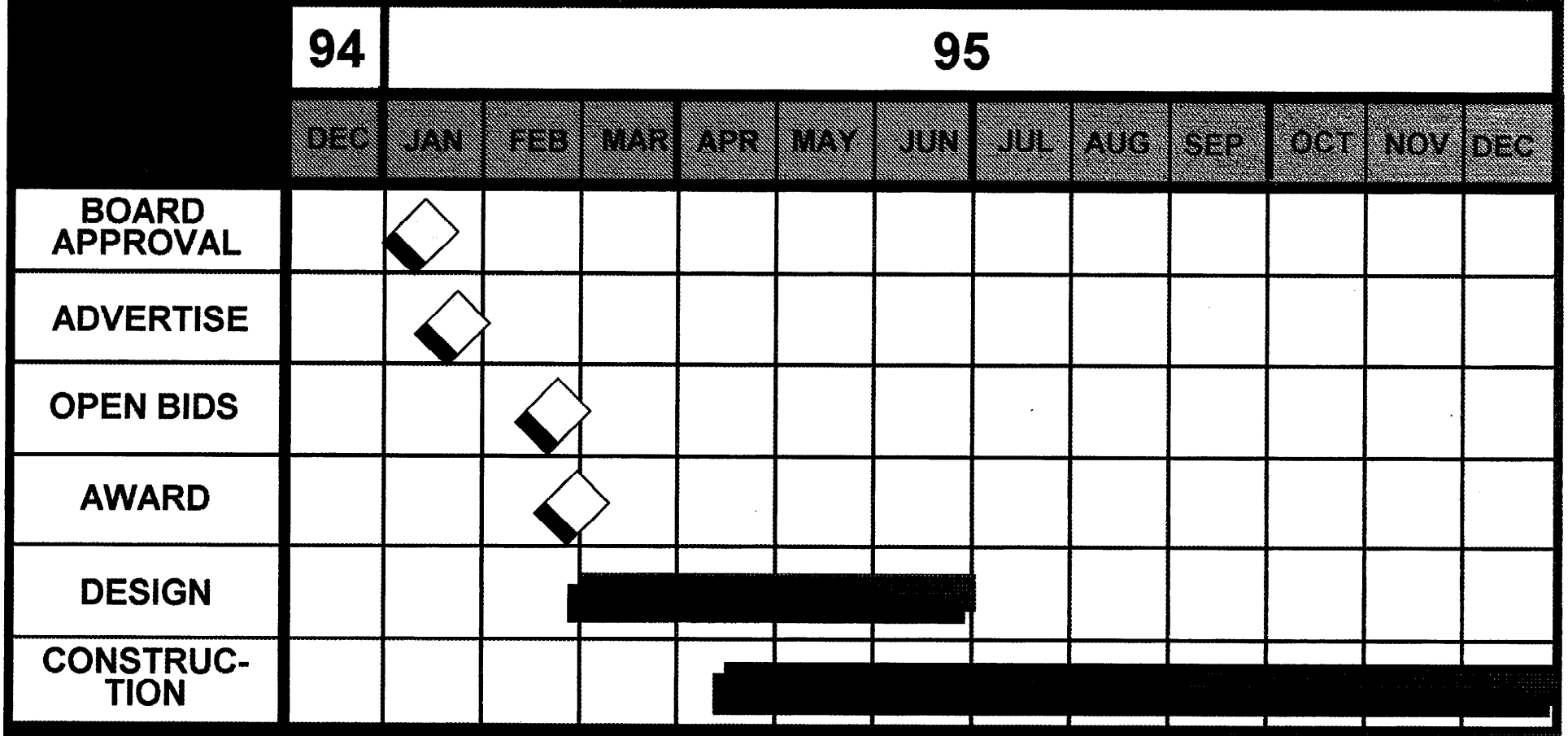

PROJECT SCHEDULE

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