Detailed Santa Anita Stormwater Flood Management and Seismic Strengthening Project Budget

	Budget Category	(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
(a)	Direct Project Administration Costs	147,320	0	0	147,320	100
(b)	Land Purchase/Easement	0	0	0	0	0
(c)	Planning/Design/Engineering/ Environmental Documentation	763,586	1,000,000	0	1,763,586	43
(d)	Construction/Implementation	14,500,000	19,000,000	0	33,500,000	43
(e)	Environmental Compliance/ Mitigation/Enhancement	0	0	0	0	0
(f)	Construction Administration	1,239,094	0	0	1,239,094	100
(g)	Other Costs (Including Legal Costs, Permitting and Licenses)**	0	0	0	0	0
(h)	Construction/Implementation Contingency	3,350,000	0	0	3,350,000	100
(i)	**Grand Total (Sum rows (a) through (h) for each column)**	**20,000,000**	**20,000,000**	**0**	**40,000,000**	50

***Sources of funding: District Budget**
**** Permit costs are included under (c) Environmental Documentation**

The sections below detail each budget category and break down the budget by the tasks described in the Work Plan. Each task's budget details the cost basis used in estimating the budget and may include a table, which further breaks down budgets into labor disciplines, equipment and/or material costs.

Santa Anita Stormwater Flood Management and Seismic Strengthening Project

(a) Direct Project Administration Costs

Direct Project Administration Costs of $147,320 were calculated based on the task break down shown below.

Task 1: Administration

Administration Costs of $108,263 were calculated based on labor costs shown in Table 4.1.

Table 4.1: Administration Labor Costs

Discipline	Hourly Wage ($/hr)	Number of Hours	Total
Project Manager (Civil Engineer)	133.82	240	$32,117
Assistant Project Manager (Senior Civil Engineering Assistant)	90.65	840	$76,146
		Total	**$108,263**

Task 2: Labor Compliance Program

Labor Compliance Program Costs of $10,878 were calculated based on labor costs shown in Table 4.2.

Table 4.2: Direct Administration Labor Costs

Discipline	Hourly Wage ($/hr)	Number of Hours	Total
Assistant Project Manager	$90.65	120	$10,878
		Total	**$10,878**

Task 3: Reporting

Reporting Costs of $28,179 were calculated based on labor costs shown in Table 4.3.

Table 4.3: Reporting Costs			
Discipline	**Hourly Wage ($/hr)**	**Number of Hours**	**Total**
Project Manager	133.82	48	$6,423
Assistant Project Manager	90.65	240	$21,756
		Total	**$28,179**

(b) Land Purchase/Easement

This Project does not require purchase of land or easements; therefore, no budget is allocated.

(c) Planning/Design/Engineering/Environmental Documentation

Planning/Design/Engineering/Environmental Documentation Costs of $1,763,586 were calculated based on the task breakdown shown below.

Task 4: Assessment and Evaluation

Assessment and Evaluation is allocated $250,000 for geotechnical exploration of the embankment abutments at the Santa Anita Debris Basin. The geotechnical exploration will be conducted by a geotechnical services consultant specializing in the local area.

Task 5: Final Design

Final Design costs are estimated to be $1,000,000. Final Design for the Spreading Grounds and Headworks will be completed by in-house Design staff. 30% Designs Plans for the Dam and Debris Basin were submitted to the California Division of Safety of Dams for review and will be finalized by the District's current design consultants, MWH and URS. The analyses and designs by these respective consultants have been used as the basis for assessment and evaluation for the Project. The budgets for the final designs are based on previous experience with similar projects. The cost breakdown by facility can be found in Table 4.4.

Table 4.4: Final Design Costs				
Stage	**Discipline**	**Hourly Wage ($/hr)**	**Number of Hours**	**Total**
Santa Anita Dam Final Design	Lump Sum Estimate	n/a	n/a	$400,000
Santa Anita Debris Basin Final Design	Lump Sum Estimate	n/a	n/a	$400,000
Headworks and Spreading Ground Final Design	Lump Sum Estimate	n/a	n/a	$50,000
Design Construction Support (RFIs, Change Orders, etc)	Lump Sum Estimate	n/a	n/a	$150,000
			Total	**$1,000,000**

Task 6: Environmental Documentation

The cost allocated for Environmental Documentation is $500,000 based on previous experience with contracts for Environmental Services consultants to complete environmental documentation for similar projects.

Task 7: Permitting

The cost allocated for Permitting is $ 13,586 based on the detailed labor cost below in Table 4.5.

Table 4.5: Construction Administration Costs				
Discipline	**Hours**	**Unit Cost ($)**	**Units**	**Total Costs ($)**
Permit Fees	n/a	$3,000	3	$9,000
Associate Civil Engineer	8	$120.06	n/a	$960
Assistant Project Manager	40	$90.65	n/a	$3,626
			Total	**$13,586**

(d) Construction/Implementation

The cost allocated for Construction/Implementation is $33,000,000 based on the task break down shown below.

Task 8: Construction Contracting

Construction contracting will be handled by the District's in-house Construction Division. These costs are included in Subtask 9.2.

Task 9: Construction

Subtask 9.1: Mobilization and Site Preparation

Mobilization and Site Preparation are carried forward in the lump sum estimate for each Project Construction task in Subtask 9.2.

Subtask 9.2: Project Construction

The Project Construction estimate of $33,500,000 is based on the costs shown below in Table 4.6.

Table 4.6: Construction Estimates

Component	Unit Costs ($)	Total ($)
Santa Anita Dam Seismic Remediation/Outlet Tower	Lump Sum Estimate	$2,000,000
Santa Anita Dam Spillway Modification	Lump Sum Estimate	$12,000,000
Structural Improvements /Concrete Repairs	Lump Sum Estimate	$250,000
Headworks Replacement	Lump Sum Estimate	$3,500,000
Santa Anita Debris Basin Spillway Modification and Outlet Tower Replacement	Lump Sum Estimate	$11,800,000
Santa Anita Spreading Ground Modification	Lump Sum Estimate	$1,200,000
Valves, Control Systems / Instrumentation / Automation	Lump Sum Estimate	$2,750,000
	Total	**$33,500,000**

Subtask 9.3: Performance Testing and Demobilization

Performance testing will include system integration and testing of the telemetry system for maximizing stormwater runoff conservation. The costs for this Subtask are included in the Automation Lump Sum in Subtask 9.2. All demobilization costs are included in the Lump Sum for each item in Subtask 9.2.

(e) Environmental Compliance/Mitigation/Enhancement

Task 10: Environmental Compliance/Mitigation/Enhancement

The District will ensure compliance with all permits and environmental mitigation measures in the adopted EIR and the permits. All anticipated environmental compliance measures will be addressed in the construction contract specifications and the associated costs are included in construction implementation. The costs for any environmental mitigation/enhancement measures not included in construction of the Project are not included as a part of this Project; therefore, these costs are not budgeted.

(f) Construction Administration

Task 11: Construction Administration

The cost allocated for Construction Administration is estimated to be $1,239,094. The estimated cost for construction administration is calculated based on approximately 3.7% of construction costs for projects of this magnitude.

(g) Other Costs

Not Applicable

(h) Construction/Implementation Contingency

A 10% construction/implementation contingency of $3,350,000 is budgeted for this Project. These costs include funds to handle unknown and unspecified conditions encountered during construction or implementation of the Project.