



Attachment 4: Budget

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Introduction

The total cost to implement the City of Chino Arterial Flood and Stormwater Management Project is \$4,022,384.40. Of this amount, \$2,000,000 (50%) is being requested as part of the Proposition 1E grant program. There is no other State funding for this project.

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In accordance with the PSP requirements, the budget items align with the Work Tasks described in Attachment 3: Work Plan and with Attachment 5: Schedule.

This section provides the following information:

1. Table 6 – Summary Budget
2. Table 5 – Project Budget
3. Budget narrative providing a summary description of the various budget elements and how the costs were derived
4. Detailed Budget breakdown

Table 6 – Summary Budget					
Proposal Title: City of Chino Arterial Flood and Stormwater Management Project					
Individual Project Title	Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost	% Funding Match (col. b/col. d)
(a) The City of Chino Arterial Flood and Stormwater Management Project	\$ 2,022,384.40	\$ 2,000,000.00	\$ -	\$ 4,022,384.40	50%
Grand Total	\$ 2,022,384.40	\$ 2,000,000.00	\$ -	\$ 4,022,384.40	50%

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Table 5 – Project Budget					
Proposal Title: City of Chino Arterial Flood and Stormwater Management Project					
Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
(a)	Direct Project Administration Costs	\$ 145,000.00			\$ 145,000.00
(b)	Land Purchase/Easement	\$ 355,000.00			\$ 355,000.00
(c)	Planning/Design/Engineering/Environmental Documentation	\$ 120,000.00			\$ 120,000.00
(d)	Construction/Implementation	\$ 726,987.00	\$ 2,000,000.00		\$ 2,726,987.00
(e)	Environmental Compliance/Mitigation/Enhancement	\$ 30,000.00			\$ 30,000.00
(f)	Construction Administration	\$ 272,698.70			\$ 272,698.70
(g)	Other Costs	\$ 100,000.00			\$ 100,000.00
(h)	Construction/Implementation Contingency	\$ 272,698.70			\$ 272,698.70
(i)	Grand Total (Sum rows (a) through (h) for each column)	\$ 2,022,384.40	\$ 2,000,000.00	\$ 0	\$ 4,022,384.40

**List sources of funding: Use as much space as required*

Budget Narrative

The following narrative provides a summary description of the various budget elements and how the costs were derived.

A. Row (a) Direct Project Administration Costs

The City of Chino direct administration costs include a combination of project administration, communications / public relations, labor compliance, and grant administration. Due to the complexity of project development, several staff are anticipated to support the delivery of the project including the Assistant City Manager, the Civil Engineering Manager, and Associate Civil Engineer. Communications, labor compliance, and grant administration are anticipated to be addressed with consultants under city management. Based on city construction experience, the anticipated level of staffing ranges from 5 hours to 20 hours per month for each element of work. The levels of effort are outlined in the different tasks. The fully burdened staff rates are determined

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through the position total compensation distilled to an hourly rate based on a 2080 hour work year. Below outlines the determination of the rates:

City Position	Total Annual Compensation Including Benefits & Retirement	Equivalent Burdened Staff Rate
Assistant City Manager	\$239,204	\$87.40
Civil Engineering Manager	\$153,980	\$74.00
Associate Civil Engineer	\$118,070	\$50.55

Project administration is anticipated for a 36 month period while communications / labor compliance / and grant administration are anticipated to match the 24 month construction schedule. The combined direct project administration costs are outlined in detail under the Project Budget Detail with a total anticipated budget of \$145,000.

B. Row (b) Land Purchase / Easement

The project includes securing a private property easement south of Pine Avenue. With the full build out of the storm drain improvements, the Pine Avenue widening would require 4.6 acres.

Property appraisal value is based on estimated recent land sales for property within the Prado Basin currently under drainage easements for the 100 year flood plain. Local appraisals are anticipated to be around \$75,000 per acre. Additionally included are the costs of preparing the legal description and the appraisal. The overall easement costs are anticipated to be \$355,000.

C. Row (c) Planning / Design / Engineering / Environmental Documentation

The project planning and design effort is at an approximate 90% level of completion on the construction documents with CEQA completed. Initial permits research has begun with all environmental permits remaining to be secured (404, 401, 1602). Final design efforts are focused towards completion of construction documents addressing final review comments, addressing dry utility relocations, and securing final permits. Final construction documents are anticipated to be \$120,000 to complete.

A detail breakdown of contracts under way for elements of work completed and under way currently are outlined in the Project Budget Detail.

D. Row (d) Construction / Implementation

The project's Engineer Cost Estimate for Construction of the Project is estimated at \$2,726,987. A detailed breakdown of construction elements is included in the Project Budget Detail.

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E. Row (e) Environmental Compliance / Mitigation / Enhancement

The project environmental compliance program includes water quality to meet the NPDES permit requirements during construction. The development of the SWPPP will be prepared by the contractor prior to construction operations.

The total effort to complete the environmental compliance is \$30,000.

F. Row (f) Construction Administration

The City of Chino will administer or contract out the construction administration. Based on the city's experience, 10% of the construction hard costs is an appropriate budget for the complexities in constructing the project while keeping Pine Avenue operational. The construction administration is budgeted at \$272,699.

G. Row (g) Other Costs

The project will require permit and inspection fees from multiple agencies due to the crossing and direction of flows to the Prado Lake drainage. These fees are estimated to be \$100,000 for outside agencies.

The total effort to complete the work outlined under other costs is \$100,000. A detail breakdown of contracts is outlined in the Project Budget Detail.

H. Row (h) Construction Implementation Contingency

The project construction contingency is estimated to be 10% of the construction hard costs based on the level of completion of the design and planning. The construction contingency is estimated at 272,699.

I. Row (i) Grand Total (Sum rows (a) through (h) for each column)

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Detailed Budget Breakdown



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Description	Quantity	Unit	Unit Cost	Total Cost	Notes
Category A - Direct Project Administration Costs					
Task 1 - Project Administration					
36 Month Project Schedule					
Assistant City Manager	180	HR	\$ 87.40	\$15,732.00	36 Month Project Schedule (5 hours per month)
Civil Engineering Manager	360	HR	\$ 74.00	\$26,640.00	36 Month Project Schedule (10 hours per month)
Associate Civil Engineer (Project Technical Management)	720	HR	\$ 50.55	\$36,396.00	36 Month Project Schedule (20 hours per month)
Associate Civil Engineer (Communications / Public Relations)	480	HR	\$ 74.00	\$35,520.00	24 Month Construction Schedule (20 hours per month)
Task 2 - Labor Compliance					
	360	HR	\$ 50.55	\$18,198.00	24 Month Construction Schedule (15 hours per month)
Task 3 - Reporting (Grant Administration)					
	240	HR	\$ 50.55	\$12,132.00	24 Month Construction Schedule (10 hours per month)
Sub Total				\$ 145,000.00	
Category B - Land Purchase / Easement					
Barthelemy Property for Pine Avenue Right of Way	4.60	AC	\$75,000.00	\$345,000.00	Easement to Chino
Legal Description and Title Search				\$5,000.00	
Property Appraisal				\$5,000.00	
Sub Total				\$355,000.00	
Category C - Planning / Design / Engineering / Environmental					
Task 4 - Assessment & Evaluation (Completed)					
Task 5 - Final Design					
Final Civil Engineering Design	\$ 110.00	Blended Rate	\$	60,000.00	Civil Engineering - LD King Consulting
Design Constructability Review	\$ 120.00	Blended Rate	\$	5,000.00	Constructability Review - Consultant to be Selected
Design Dry Utility Relocation Design	\$ 140.00	Blended Rate	\$	15,000.00	Dry Utility Relocation - Consultant to be Selected
Task 6 - Environmental Documentation (Completed)					
Task 7 - Permitting	\$ 140.00	Blended Rate	\$	40,000.00	Environmental Documents (Permits) - Consultant to be Selected
Sub Total				\$ 120,000.00	
Category D - Construction Implementation					
Task 8 - Construction Contracting (Included in Effort under Task 11)					
Task 9 - Construction					
Storm Drain Improvements					
1 CONSTRUCT PRECAST 12X4 TRIPLE RCB PER CALTRANS STD PLAN D81	1,060	LF	\$900.00	\$954,000.00	
2 CONSTRUCT JUNCTION STRUCTURE PIPE TO RCB PER APWA STD 333-1	2	EA	\$4,300.00	\$8,600.00	
3 CONSTRUCT PIPE CULVERT WARPED WING WALL PER CALTRANS STD D85B	1	EA	\$8,000.00	\$8,000.00	
4 CONSTRUCT BOX CULVERT WARPED WING WALL PER CALTRANS STD D85A	1	EA	\$15,000.00	\$15,000.00	
5 CONSTRUCT JUNCTION STRUCTURE NO 2 PER CITY OF CHINO STD 370A	3	EA	\$5,500.00	\$16,500.00	
6 CONSTRUCT JUNCTION STRUCTURE NO 3 PER CITY OF CHINO STD 375A	3	EA	\$6,000.00	\$18,000.00	
7 CONSTRUCT 84" RCP	683	LF	\$530.00	\$361,990.00	
8 CONSTRUCT 36" RCP	91	LF	\$130.00	\$11,830.00	
9 CONSTRUCT 24" RCP	171	LF	\$110.00	\$18,810.00	
10 CONSTRUCT END PIPE BRICK & MORTAR PLUG	1	EA	\$500.00	\$500.00	
11 CONSTRUCT CSP RISER PER CITY OF CHINO STD 355	2	EA	\$2,500.00	\$5,000.00	
12 CONSTRUCT 1/4 TON GROUTED RIP RAP	12,100	SF	\$5.00	\$60,500.00	
13 CONSTRUCT 5' CHAINLINK FENCE PER APWA STD 500-3	221	LF	\$12.00	\$2,652.00	
14 CONSTRUCT CONCRETE ROCK BLANKET PROTECTION OVER EXISTING PIPE PER APWA STD 225-2	1	EA	\$500.00	\$500.00	
15 CONSTRUCT 36"x36" CATCH BASIN WITH PARKWAY GRATE	1	EA	\$3,500.00	\$3,500.00	
16 CONSTRUCT 15' WIDE ACCESS ROAD WITH 4" CRUSHED ROCK	1,298	LF	\$50.00	\$64,900.00	
17 CONSTRUCT CONCRETE APRON AROUND CSP RISER	1	EA	\$500.00	\$500.00	
EARTHWORK & GRADING	40,000	CY	\$8.00	\$320,000.00	
CONSTRUCT 20' EARTHEN TRAPEZOIDAL CHANNEL	450	LF	\$125.00	\$56,250.00	
UNSUITABLE EXCAVATION, REMOVAL, DISPOSAL, AND BACKFILL	2,000	CY	\$25.00	\$50,000.00	
Storm Drain Sub Total				\$1,977,032.00	
Street Improvements					
MOBILIZATION	1	LS	\$130,000.00	\$130,000.00	
TRAFFIC CONTROL & ROAD CLOSURE	1	LS	\$150,000.00	\$150,000.00	
TEMPORARY BYPASS ROAD	1	LS	\$120,000.00	\$120,000.00	
CLEARING & GRUBBING	1	LS	\$45,000.00	\$45,000.00	
20 CONSTRUCT 7" AC OVER 8" CAB MIN, OR PER SOILS ENGINEER'S RECOMMENDATIONS	45,400	SF	\$4.50	\$204,300.00	
21 GRIND & OVERLAY AC PAVEMENT	310	SF	\$0.50	\$155.00	
22 ADJUST SEWER MANHOLE TO GRADE PER CHINO STD 535	9	EA	\$350.00	\$3,150.00	
23 ADJUST STORM DRAIN MANHOLE TO GRADE PER CHINO STD 535	5	EA	\$350.00	\$1,750.00	
24 ADJUST WATER VALVE TO GRADED PER CITY STD 455	1	EA	\$250.00	\$250.00	
25 INSTALL BARRIER POST PER CITY STD 850	6	EA	\$200.00	\$1,200.00	
26 INSTALL SX7 LIGHT CLASS RIP RAP PAD	3	EA	\$500.00	\$1,500.00	
27 ADJUST TRAFFIC SIGNAL BOX TO GRADE	1	EA	\$150.00	\$150.00	
UNSUITABLE EXCAVATION, REMOVAL, DISPOSAL, AND BACKFILL	2,000	CY	\$26.25	\$52,500.00	
NEW PAVEMENT MARKING AND SIGNING	1	LS	\$40,000.00	\$40,000.00	
Streets Sub Total				\$749,955.00	
Sub Total				\$2,726,987.00	
Category E - Environmental Compliance / Mitigation / Enhancement					
Task 10 - Environmental Compliance / Mitigation / Enhancement					
Construction Storm Water Quality Monitoring			\$	30,000.00	NPDES Permit Requirement
Sub Total				\$ 30,000.00	
Category F - Construction Administration					
Task 11 - Construction Administration			\$	272,698.70	10% Construction Costs
Sub Total				\$ 272,698.70	
Category G - Other Costs					
Permit & Inspection Fees			\$	100,000.00	Environmental Permits & Outside Agencies



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Description	Quantity	Unit	Unit Cost	Total Cost	Notes
Sub Total				\$ 100,000.00	
Category H - Construction Implementation Contingency					
Construction / Implementation Contingency Only			10%	\$ 272,698.70	Construction Documents 50% or More Complete
Sub Total				\$ 272,698.70	
Grand Total				\$4,022,384.40	