

Opinion of Probable Construction Cost

**Ballona Creek Trail, Project #3402507
December 2,2003**

Note: The following statement of probable construction cost is for preliminary budgetary purposes only. Estimated unit prices are based on elements shown on the schematic plans only and are not based on detailed design plan or construction documents. This statement of probable construction cost does not account for any necessary water diversion during construction or unforeseen site conditions such as drainage structures, traffic signalization, utilities, miscellaneous subsurface, etc.

Priority 1A Improvements

- Remove existing public fencing at property line along the entire north bank of Ballona Creek and install a new eight (8) foot high black coated wrought iron fence along property lines.
- Install an irrigation line between the new fence and the edge of the trail or access road above the top of bank.
- Install tree and other native plantings between the path and the new fence.
- Design and install trail head improvements including wrought iron fencing, gates, benches, and water fountains while providing for clear access by emergency, patrol, and maintenance vehicles to the maintenance roads and trail system.
- Remove the low chain link gates at path entries in favor of removable bollards.
- Install identification and directional signage at key entry points to the path system.
- Install low level bollard lighting between the fence and the path system.

PRIORITY 1A IMPROVEMENTS

Demolition	Quantity	Units	Cost/Unit	Extension
Removal of existing fencing at property line along north bank	18850	LF	\$ 2.00	\$ 37,700.00
Removal of existing chain link gates at path entries	7	EA	\$ 200.00	\$ 1,400.00
			Subtotal=	\$ 39,100.00

Site Amenities	Quantity	Units	Cost/Unit	Extension
Removable bollards @ path entries	80	EA	\$ 400.00	\$ 32,000.00
8' powder coated decorative steel fence along north bank property line	18,850	LF	\$ 60.00	\$ 1,131,000.00
Water fountains at trailheads with water connection and meter	5	EA	\$ 5,000.00	\$ 25,000.00
Benches at trailheads	10	EA	\$ 800.00	\$ 8,000.00
8' powder coated steel fencing at trailheads	1,000	LF	\$ 60.00	\$ 60,000.00
8' powder coated steel gates at trailheads	5	EA	\$ 1,000.00	\$ 5,000.00
42" ornamental guardrail on north bank (Slauson to Overland)	6,775	LF	\$ 30.00	\$ 203,250.00
42" ornamental guardrail on north bank (Jackson to National)	7,800	LF	\$ 30.00	\$ 234,000.00
Identification and directional signage at key entry points	20	EA	\$ 500.00	\$ 10,000.00
Equipment mobilization for general construction	1	LS	\$ 20,000.00	\$ 20,000.00
			Subtotal=	\$ 1,728,250.00

Irrigation	Quantity	Units	Cost/Unit	Extension
General Irrigation Allowance- entire north bank above trail/access road	281,820	SF	\$ 2.00	\$ 563,640.00
			Subtotal=	\$ 563,640.00

Planting	Quantity	Units	Cost/Unit	Extension
Shredded Cedar or Redwood Bark Mulch - 3" Layer	2,560	CY	\$ 60.00	\$ 153,600.00
Shrubs above north bank trail- 1 Gallon	6,500	EA	\$ 7.50	\$ 48,750.00
Trees above north bank trail- 15 Gallon	374	EA	\$ 125.00	\$ 46,750.00
			Subtotal=	\$ 249,100.00

Landscape Electrical	Quantity	Units	Cost/Unit	Extension
Low level bollard lighting along north bank trail (Slauson to Overland)	676	EA	\$ 2,000.00	\$ 1,352,000.00
Conduit and wiring for lighting along north bank trail (Slauson to Overland)	6,775	LF	\$ 10.00	\$ 67,750.00
Low level bollard lighting along north bank trail (Jackson to National)	780	EA	\$ 2,000.00	\$ 1,560,000.00
Conduit and wiring for lighting along north bank trail (Jackson to National)	7,800	LF	\$ 10.00	\$ 78,000.00
			Subtotal=	\$ 3,057,750.00

Preservation and Prevention	Quantity	Units	Cost/Unit	Extension
Dust and storm water pollution prevention	1	LS	\$ 20,000.00	\$ 45,000.00
			Subtotal=	\$ 45,000.00

Total Direct Costs=	\$	5,682,840.00
Overhead & Profit (10%)	\$	568,284.00
Regional Cost Index (L.A. County= 1.083%)	\$	61,545.16
General Conditions, Bonds and Insurance (15%)	\$	852,426.00
Escalation (4%)	\$	227,313.60
Subtotal	\$	7,392,408.76
Allowance for Public Art 1%	\$	73,924.09
Contingency (20%)	\$	1,136,568.00
Grand Total=	\$	8,602,900.84

Opinion of Probable Costs

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PRIORITY 1B SCHEMATIC DESIGN, PRELIMINARY ENGINEERING, ENVIRONMENTAL REVIEW COSTS

Design	Cost/Unit	Extension
ALTA Level Survey of Channel	ALLOW	\$ 150,000.00
Schematic Design / Preliminary Engineering	ALLOW	\$ 650,000.00
HEC-RASII Hydrologic Study	ALLOW	\$ 85,000.00
EIR-EIS	ALLOW	\$ 230,000.00

Total Direct Costs= \$ 1,115,000.00

Escalation (4%) \$ 44,600.00

Subtotal \$ 1,159,600.00

Contingency (10%) \$ 111,500.00

Grand Total= \$ 1,271,100.00

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Priority 2 Improvements (to be completed within 1 to 3 years after detailed design plans are resolved)

- Construction of the Pearson Street Overlook and pedestrian sidewalk improvements along the south side of Pearson Street between Jefferson Boulevard and Ballona Creek.
- Construction of the Overland Demonstration Project between the Overland Avenue crossing west of the reconstructed pedestrian bridge.
- Construction of the reconfigured north bank channel from Overland Avenue upstream to Jackson Avenue including trail reconfiguration, ornamental stone surfaces, and additional top of bank landscaping improvements.

PRIORITY 2 IMPROVEMENTS

Demolition	Quantity	Units	Cost/Unit	Extension
Excavation on north bank (Pedestrian Bridge to Jackson)	24,500	CY	\$ 12.00	\$ 294,000.00
Concrete removal on north bank (Pedestrian Bridge to Jackson)	222,100	SF	\$ 2.00	\$ 444,200.00
Excavation on south bank (Pedestrian Bridge to Overland)	2,648	CY	\$ 12.00	\$ 31,776.00
Concrete removal on south bank (Pedestrian Bridge to Overland)	42,000	SF	\$ 2.00	\$ 84,000.00
Excavation to allow Pearson St. Overlook	280	CY	\$ 12.00	\$ 3,360.00
Concrete removal to allow Pearson St. Overlook	9,000	SF	\$ 2.00	\$ 18,000.00
Hauling and Dumping	32,000	CY	\$ 40.00	\$ 1,280,000.00
Equipment mobilization for earthwork construction	1	LS	\$ 50,000.00	\$ 50,000.00
			Subtotal=	\$ 2,205,336.00

Site Construction- Concrete, Stonework, and Drainage	Quantity	Units	Cost/Unit	Extension
Sidewalk along west side of Pearson St.	5,000	SF	\$ 4.00	\$ 20,000.00
Concrete paving at Pearson St. Overlook (integral color)	3,800	SF	\$ 7.00	\$ 26,600.00
Concrete paving at Library's Outdoor Café (integral color)	4,300	SF	\$ 7.00	\$ 30,100.00
Concrete paving at Overland Ave. Rest Stop/Trailhead	3,600	SF	\$ 4.00	\$ 14,400.00
Concrete paving at Ocean Drive Overlook	2,200	SF	\$ 4.00	\$ 8,800.00
12' wide concrete multi-use path on north bank (Overland to Jackson)	30,000	SF	\$ 4.00	\$ 120,000.00
7' high concrete retaining wall on north bank (Overland to Jackson)	25,200	SF	\$ 25.00	\$ 630,000.00
14' high battered concrete retaining wall on north bank (Overland to Jackson)	50,400	SF	\$ 30.00	\$ 1,512,000.00
Rock veneer on all battered retaining walls (Overland to Jackson)	87,384	SF	\$ 15.00	\$ 1,310,760.00
Rock veneer on battered retaining wall at Pearson St. Overlook	7,300	SF	\$ 15.00	\$ 109,500.00
8' high concrete retaining wall on south bank (Ped. Bridge to Overland)	8,000	SF	\$ 25.00	\$ 200,000.00
6' high concrete retaining wall on south bank (Ped. Bridge to Overland)	8,000	SF	\$ 25.00	\$ 200,000.00
12' wide concrete multi-use paths on both banks (Ped. Bridge to Overland)	13,440	SF	\$ 4.00	\$ 53,760.00
10' wide concrete steps with handrail from Ocean Drive Overlook to lower path	100	LF	\$ 40.00	\$ 4,000.00
			Subtotal=	\$ 4,239,920.00

Site Amenities	Quantity	Units	Cost/Unit	Extension
Bench(es) at Pearson St. Overlook	4	EA	\$ 1,200.00	\$ 4,800.00
Trash Receptacle at Pearson St. Overlook	2	EA	\$ 800.00	\$ 1,600.00
Drinking Fountain at Pearson St. Overlook	1	EA	\$ 5,000.00	\$ 5,000.00
42" high decorative guardrail at Pearson St. Overlook	125	LF	\$ 30.00	\$ 3,750.00
Benches at Overland Ave. Rest Stop/Trailhead	4	EA	\$ 1,200.00	\$ 4,800.00
Bike rack at Overland Ave. Rest Stop/Trailhead	1	EA	\$ 1,000.00	\$ 1,000.00
Drinking Fountain at Overland Ave. Rest Stop/Trailhead	1	EA	\$ 5,000.00	\$ 5,000.00
Chairs at Library's Outdoor Café	20	EA	\$ 200.00	\$ 4,000.00
Café tables at Library's Outdoor Café	5	EA	\$ 400.00	\$ 2,000.00
42" ornamental guardrail (Overland to Jackson)	2,850	LF	\$ 30.00	\$ 85,500.00
42" ornamental guardrail on south bank (Ped. Bridge to Overland)	2,000	LF	\$ 30.00	\$ 60,000.00
			Subtotal=	\$ 177,450.00

Irrigation	Quantity	Units	Cost/Unit	Extension
General Irrigation Allowance- north bank (Overland to Jackson)	20,000	SF	\$ 2.00	\$ 40,000.00
General Irrigation Allowance- north and south bank (Ped. Bridge to Overland)	19,500	SF	\$ 2.00	\$ 39,000.00
			Subtotal=	\$ 79,000.00

Planting	Quantity	Units	Cost/Unit	Extension
Shredded Cedar or Redwood Bark Mulch - 3" Layer	365	CY	\$ 60.00	\$ 21,900.00
Shrubs along north bank (Overland to Jackson)- 1 Gallon	800	EA	\$ 7.50	\$ 6,000.00
Shrubs along north and south banks (Ped.Bridge to Overland)- 1 Gallon	780	EA	\$ 7.50	\$ 5,850.00
Trees along north bank (Overland to Jackson)- 15 Gallon	100	EA	\$ 125.00	\$ 12,500.00
Trees along north and south banks (Ped. Bridge to Overland)- 15 Gallon	50	EA	\$ 125.00	\$ 6,250.00
			Subtotal=	\$ 52,500.00

Landscape Electrical	Quantity	Units	Cost/Unit	Extension
Low level bollard lighting along north bank trail (Overland to Jackson)	250	EA	\$ 2,000.00	\$ 500,000.00
Conduit and wiring for lighting along north bank trail (Overland to Jackson)	2,500	LF	\$ 15.00	\$ 37,500.00
Low level bollard lighting along all paths (Ped. Bridge to Overland)	250	EA	\$ 2,000.00	\$ 500,000.00
Conduit and wiring for lighting along all paths (Ped. Bridge to Overland)	2,500	LF	\$ 15.00	\$ 37,500.00
12' high metal pole lighting at Ocean Drive Overlook	4	EA	\$ 3,000.00	\$ 12,000.00
12' high metal pole lighting at Library's Outdoor Café	4	EA	\$ 3,000.00	\$ 12,000.00
12' high metal pole lighting at Overland Ave. Rest Stop/Trailhead	4	EA	\$ 3,000.00	\$ 12,000.00
12' high metal pole lighting at Pearson St. Overlook	4	EA	\$ 3,000.00	\$ 12,000.00
			Subtotal=	\$ 1,123,000.00

Preservation and Prevention	Quantity	Units	Cost/Unit	Extension
Preservation of "Postcards From Ballona" Mural	1	LS	\$ 5,000.00	\$ 5,000.00
Dust and storm water pollution prevention	1	LS	\$ 40,000.00	\$ 40,000.00
			Subtotal=	\$ 45,000.00

Total Direct Costs=	\$	7,922,206.00
Overhead & Profit (10%)	\$	792,220.60
Regional Cost Index (L.A. County= 1.083%)	\$	657,543.10
General Conditions, Bonds and Insurance (15%)	\$	1,188,330.90
Escalation (4%)	\$	316,888.24
Subtotal	\$	10,877,188.84
Allowance for Public Art 1%	\$	108,771.89
Contingency (20%)	\$	1,584,441.20
Grand Total=	\$	12,570,401.93

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Priority 3 Improvements (3 to 6 years)

- Design and install the Slauson Avenue Overlook (likely to be the responsibility of the City of Los Angeles).
- Design and construct the Jefferson Boulevard/Ballona Creek Land Bridge to Baldwin Hills Park (likely to be the responsibility of the Baldwin Hills Conservancy).
- Design and construct the south bank multi-use trail and channel reconfiguration from Washington Boulevard to Overland Avenue.
- Reconstruct the north bank trail and channel from National Boulevard at Syd Kronenthal Park and extend trail to Washington Boulevard.
- Construct new north bank transition trails west of Higuera Street and west from National Boulevard.
- Design and install low flow channel along entire channel bottom.
- Design and install inflatable dam west of Overland Avenue.

PRIORITY 3 IMPROVEMENTS

Demolition	Quantity	Units	Cost/Unit	Extension	
Excavation to allow Slauson Ave. Overlook	2,000	CY	\$ 12.00	\$ 24,000.00	*CityLA
Concrete removal to allow Slauson Ave. Overlook	21,300	SF	\$ 2.00	\$ 42,600.00	*CityLA
Excavation to allow Baldwin Hills Land Bridge footings	150	CY	\$ 12.00	\$ 1,800.00	*BHC
Concrete removal to allow Baldwin Hills Land Bridge footings	500	SF	\$ 2.00	\$ 1,000.00	*BHC
Excavation on south bank (Overland to Pearson)	13,800	CY	\$ 12.00	\$ 165,600.00	
Concrete removal on south bank (Overland to Pearson)	120,400	SF	\$ 2.00	\$ 240,800.00	
Excavation on south bank (Pearson to Washington)	23,200	CY	\$ 12.00	\$ 278,400.00	
Concrete removal on south bank (Pearson to Washington)	228,000	SF	\$ 2.00	\$ 456,000.00	
Excavation on north bank (transition trails at Higuera and National)	220	CY	\$ 12.00	\$ 2,640.00	
Concrete removal on north bank (transition trails at Higuera and National)	4,800	SF	\$ 2.00	\$ 9,600.00	
Excavation on channel bottom to allow for low flow channel	35,500	CY	\$ 12.00	\$ 426,000.00	
Concrete removal on channel bottom to allow for low flow channel	240,000	SF	\$ 4.00	\$ 960,000.00	
Hauling and Dumping	86,000	CY	\$ 40.00	\$ 3,440,000.00	
			Subtotal=	\$ 6,048,440.00	

Site Construction- Concrete and Stonework	Quantity	Units	Cost/Unit	Extension	
Concrete paving at Slauson Ave. Overlook (integral color)	2,700	SF	\$ 7.00	\$ 18,900.00	*CityLA
15' high concrete retaining wall at Slauson Ave. Overlook	4,500	SF	\$ 30.00	\$ 135,000.00	*CityLA
Rock veneer on all reconfigured walls at Slauson Ave. Overlook	16,800	SF	\$ 15.00	\$ 252,000.00	*CityLA
8' high concrete retaining wall on south bank (Overland to Pearson)	22,400	SF	\$ 25.00	\$ 560,000.00	
12' high concrete retaining wall on south bank (Pearson to Washington)	9,500	SF	\$ 30.00	\$ 285,000.00	
Rock veneer on all battered retaining walls (Overland to Pearson)	58,800	SF	\$ 15.00	\$ 882,000.00	
Rock veneer on battered retaining wall (Pearson to Washington)	114,000	SF	\$ 15.00	\$ 1,710,000.00	
Rock veneer on ex. south bank channel wall (Pearson to Washington)	152,000	SF	\$ 15.00	\$ 2,280,000.00	
Rock veneer on ex. north bank channel walls (National to Washington)	29,600	SF	\$ 15.00	\$ 444,000.00	
8' wide concrete transitional path from Slauson Overlook to lower path	8,000	SF	\$ 4.00	\$ 32,000.00	*CityLA
8' high concrete path from Baldwin Hills Park to Land Bridge	1,300	SF	\$ 4.00	\$ 5,200.00	
12' wide multi-use concrete path on south bank (Overland to Washington)	148,000	SF	\$ 4.00	\$ 592,000.00	
12' wide multi-use concrete path on north bank (National to Washington)	22,100	SF	\$ 4.00	\$ 88,400.00	
12' wide concrete transitional path on north bank from National Blvd.	2,400	SF	\$ 4.00	\$ 9,600.00	
12' wide concrete transitional path on north bank from Higuera St.	2,400	SF	\$ 4.00	\$ 9,600.00	
Concrete low flow channel along entire channel bottom	300,000	SF	\$ 10.00	\$ 3,000,000.00	
Grouted boulders along low flow channel	16,600	SY	\$ 145.00	\$ 2,407,000.00	
15' wide concrete seat steps on north bank at Syd Kronenthal Park	183	LF	\$ 30.00	\$ 5,490.00	
10' wide concrete steps with handrail from Slauson Overlook to lower path	640	LF	\$ 20.00	\$ 12,800.00	*CityLA
Equipment mobilization for earthwork construction	1	LS	\$ 125,000.00	\$ 125,000.00	
			Subtotal=	\$ 12,853,990.00	

Site Amenities	Quantity	Units	Cost/Unit	Extension	
Bench(es) at Slauson Ave. Overlook	6	EA	\$ 1,200.00	\$ 7,200.00	*CityLA
42" high decorative guardrail at Slauson Ave. Overlook	300	LF	\$ 30.00	\$ 9,000.00	*CityLA
Trash receptacles at Slauson Ave. Overlook	2	EA	\$ 800.00	\$ 1,600.00	*CityLA
Drinking fountain at Slauson Ave. Overlook w/ water connection and meter	1	EA	\$ 5,000.00	\$ 5,000.00	*CityLA
Steel handrail on stairs at Slauson Overlook	320	LF	\$ 65.00	\$ 20,800.00	
Steel handrail on seat steps at Syd Kronenthal Park	60	LF	\$ 65.00	\$ 3,900.00	
42" high decorative guardrail on south bank (Overland to Washington)	12,400	LF	\$ 30.00	\$ 372,000.00	
42" high decorative guardrail on north bank (National to Washington)	1,850	LF	\$ 30.00	\$ 55,500.00	
Land Bridge with ramps, staircases, paved surface, seating, and railings	1	LS	\$ 25,000,000.00	\$ 25,000,000.00	*BHC
Inflatable dam at Pedestrian Bridge downstream of Overland Ave.	1	EA	\$ 12,000.00	\$ 12,000.00	
			Subtotal=	\$ 25,487,000.00	

Irrigation	Quantity	Units	Cost/Unit	Extension	
General Irrigation Allowance- Slauson Overlook	8,000	SF	\$ 2.00	\$ 16,000.00	*CityLA
General Irrigation Allowance- Baldwin Hills Land Bridge	13,000	SF	\$ 2.00	\$ 26,000.00	*BHC
General Irrigation Allowance- south bank (Overland to Pearson)	33,600	SF	\$ 2.00	\$ 67,200.00	
General Irrigation Allowance- south bank (Pearson to Washington)	57,000	SF	\$ 2.00	\$ 114,000.00	
General Irrigation Allowance- north bank (National to Washington)	30,000	SF	\$ 2.00	\$ 60,000.00	
			Subtotal=	\$ 283,200.00	

Planting	Quantity	Units	Cost/Unit	Extension	
Shredded Cedar or Redwood Bark Mulch - 3" Layer	1,300	CY	\$ 60.00	\$ 78,000.00	
Turf- grass pavers at Slauson Overlook	8,000	SF	\$ 8.00	\$ 64,000.00	*CityLA
Specimen Tree at Slauson Overlook - 36" Box	1	EA	\$ 650.00	\$ 650.00	*CityLA
Shrubs on Baldwin Hill around Land Bridge- 1 Gallon	500	EA	\$ 7.50	\$ 3,750.00	*BHC
Trees on Baldwin Hill around Land Bridge- 15 Gallon	5	EA	\$ 125.00	\$ 625.00	*BHC
Turf- grass pavers on south bank (from ? To ?)	6,000	SF	\$ 8.00	\$ 48,000.00	
Trees on south bank (Overland to Washington)- 15 Gallon	250	EA	\$ 125.00	\$ 31,250.00	
Shrubs on south bank (Overland to Pearson)- 1 Gallon	1,300	EA	\$ 7.50	\$ 9,750.00	
Shrubs on south bank (Pearson to Washington)- 1 Gallon	2,300	EA	\$ 7.50	\$ 17,250.00	
Trees on north bank (National to Washington)- 15 Gallon	20	EA	\$ 125.00	\$ 2,500.00	
Shrubs on north bank (National to Washington)- 1 Gallon	1,200	EA	\$ 7.50	\$ 9,000.00	
			Subtotal=	\$ 264,775.00	

Landscape Electrical	Quantity	Units	Cost/Unit	Extension	
Low level bollard lighting along south bank trail (Overland to Washington)	123	EA	\$ 2,000.00	\$ 246,000.00	
Conduit and wiring for lighting along south bank trail (Overland to Washington)	12,300	LF	\$ 15.00	\$ 184,500.00	
Low level bollard lighting along north bank trail (National to Washington)	185	EA	\$ 2,000.00	\$ 370,000.00	
Conduit and wiring for lighting along north bank trail (National to Washington)	1,850	LF	\$ 15.00	\$ 27,750.00	
12' high metal pole lighting at Slauson Overlook	4	EA	\$ 3,000.00	\$ 12,000.00	*CityLA
12' high metal pole lighting at/on Baldwin Hills Land Bridge	12	EA	\$ 3,000.00	\$ 36,000.00	*BHC
			Subtotal=	\$ 876,250.00	

Preservation and Prevention	Quantity	Units	Cost/Unit	Extension	
Dust and storm water pollution prevention	1	LS	\$ 30,000.00	\$ 50,000.00	
			Subtotal=	\$ 50,000.00	

Total Direct Costs=	\$	45,863,655.00
Overhead & Profit (10%)	\$	4,586,365.50
Regional Cost Index (L.A. County= 1.083%)	\$	496,703.38
General Conditions, Bonds and Insurance (15%)	\$	6,879,548.25
Escalation (4%)	\$	1,834,546.20
Subtotal	\$	59,660,818.33
Allowance for Public Art 1%	\$	596,608.18
Contingency (20%)	\$	9,172,731.00
Grand Total=	\$	69,430,157.52

*CityLA = likely to be the responsibility of the City of Los Angeles
*BHC= likely to be the responsibility of the Baldwin Hills Conservancy

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Priority 4 Improvements (7 to 15 years)

- Resolve design and permitting for the reconfiguration of the south bank at the Jefferson Boulevard/Overland Avenue opportunity site between Overland Avenue and Pearson Street.
- Install inflatable dam upstream of Overland Avenue.
- Install Syd Kronenthal Park pedestrian bridge and construct mini park on Ballona Creek trail extension from south bank to La Cienega Boulevard.
- Approve Jefferson Boulevard streetscape including median landscaping from Duquesne Boulevard to National Boulevard.
- Install inflatable dam and pedestrian bridge at Hayden Tract.

PRIORITY 4 IMPROVEMENTS

Site Construction- Concrete and Stonework	Quantity	Units	Cost/Unit	Extension
12' wide concrete tributary trail on extension from south bank to La Cienega	13,200	SF	\$ 4.00	\$ 52,800.00
Equipment mobilization for earthwork construction	1	LS	\$ 1,000.00	\$ 1,000.00
			Subtotal=	\$ 53,800.00

Site Amenities	Quantity	Units	Cost/Unit	Extension
Benches at Rest Stop (south bank at tributary trail to La Cienega)	4	EA	\$ 800.00	\$ 3,200.00
Trash receptacles at Rest Stop (south bank at trib. trail to La Cienega)	2	EA	\$ 800.00	\$ 1,600.00
Drinking fountain at Rest Stop (south bank at trib. trail to La Cienega)	1	EA	\$ 5,000.00	\$ 5,000.00
Pedestrian Bridge at Syd Kronenthal Park	1	LS	\$ 960,000.00	\$ 960,000.00
Pedestrian Bridge at Hayden Tract	1	LS	\$ 960,000.00	\$ 960,000.00
Inflatable dam upstream of Overland Ave.	1	EA	\$ 12,000.00	\$ 12,000.00
Inflatable dam at Hayden Tract	1	EA	\$ 12,000.00	\$ 12,000.00
			Subtotal=	\$ 1,953,800.00

Irrigation	Quantity	Units	Cost/Unit	Extension
General Irrigation Allowance- Rest Stop and tributary trail to La Cienega	11,700	EA	\$ 2.00	\$ 23,400.00
			Subtotal=	\$ 23,400.00

Planting	Quantity	Units	Cost/Unit	Extension
Shredded Cedar or Redwood Bark Mulch - 3" Layer	100	CY	\$ 60.00	\$ 6,000.00
Turf - Sod at Rest Stop (south bank trail at tributary trail to La Cienega)	10,000	SF	\$ 2.50	\$ 25,000.00
Trees along tributary trail to La Cienega- 15 Gallon	50	EA	\$ 125.00	\$ 6,250.00
Shrubs along tributary trail to La Cienega- 1 Gallon	1,700	EA	\$ 7.50	\$ 12,750.00
			Subtotal=	\$ 50,000.00

Landscape Electrical	Quantity	Units	Cost/Unit	Extension
Low level bollard lighting along tributary trail to La Cienega	110	EA	\$ 2,000.00	\$ 220,000.00
Conduit and wiring for lighting along tributary trail to La Cienega	1,100	LF	\$ 10.00	\$ 11,000.00
			Subtotal=	\$ 231,000.00

Preservation and Prevention	Quantity	Units	Cost/Unit	Extension
Dust and storm water pollution prevention	1	LS	\$ 3,000.00	\$ 3,000.00
			Subtotal=	\$ 3,000.00

Total Direct Costs=	\$	2,315,000.00
Overhead & Profit (10%)	\$	231,500.00
Regional Cost Index (L.A. County= 1.083%)	\$	25,071.45
General Conditions, Bonds and Insurance (15%)	\$	25,071.45
Escalation (4%)	\$	92,600.00
Subtotal	\$	2,689,242.90
Allowance for Public Art 1%	\$	26,892.43
Contingency (20%)	\$	463,000.00
Grand Total=	\$	3,271,735.33

Probable Annual Landscape Maintenance Costs

Ballona Creek Trail
Project # 3402507
December 2,2003

Note: The following statement of probable landscape maintenance cost is for preliminary budgetary purposes only. Estimated unit prices are based on elements shown on the schematic plans only and are not based on detailed design plan or construction documents. The pricing is based upon an hourly rate of \$25.00 per hour as shown.

Maintenance Task	Units	Quantity	Quantity	Time in Hours multiplied by quantity	Frequency per year	Cost/Unit	Extension
General Maintenance Costs							
Litter Pick-up (Planting Areas)	1.00	Acres	10.85	1	26	\$25.00	\$7,052.50
Creek Clean Up	1.00	Allow	1		2	\$8,000.00	\$16,000.00
Graffiti Abatement (All Areas)	1.00	Allow					\$35,000.00
Deploy Inflatable Dam (3 total) (3) times per year	1.00	Each	3		9	\$1,500.00	\$13,500.00
Paved Areas							
Sweep all Pathways	1.00	Acres	14.61	1	26	\$32.50	\$12,345.45
Lighting							
Relamp Bollards and Lights 120 Lamps per year	1.00	Each	120	0	0	\$108.33	\$12,999.96
Waste / Recycling Receptacles							
Empty Receptacles	1.00	Each	6	0.08	104	\$25.00	\$1,248.00
Signage							
Repair	1.00	Each	20	0.5	1	\$25.00	\$500.00
Bollards, Bike Racks							
Repair	1.00	Each	81	1	0.2	\$25.00	\$405.00
Walls, Fencing, Gates (Once Every Ten Years)							
Repair 8' Fence	1.00	Square Feet	19850	0.1	0.1	\$25.00	\$4,962.50
Repair 42" Guardrail	1.00	Square Feet	33800	0.08	0.1	\$25.00	\$6,760.00
Repair 6'-7' High Retaining Wall	1.00	Square Feet	4950	0.2	0.1	\$25.00	\$2,475.00
Repair 8'-10' High Retaining Wall	1.00	Square Feet	3800	0.3	0.1	\$25.00	\$2,850.00
Repair 12'-13' High Retaining Wall	1.00	Square Feet	4390	0.4	0.1	\$25.00	\$4,390.00
Repair 14'-15' High Retaining Wall	1.00	Square Feet	3900	0.5	0.1	\$25.00	\$4,875.00
Drinking Fountains							
Repair	1.00	Each	5	1.5	1	\$25.00	\$187.50
Cleaning	1.00	Each	5	0.1	52	\$25.00	\$650.00
Irrigation (Estimated Quantities)							
Service and Repair Backflow	1.00	Each	7	2	1	\$25.00	\$350.00
Program Controllers	1.00	Each	7	1	3	\$25.00	\$525.00
Check and Repair Sprinklers	1.00	Each	1400	0.1	2	\$25.00	\$7,000.00
Check and Repair Valves	1.00	Each	136	0.2	1	\$25.00	\$680.00
Landscaping							
Shrub Bed Weeding, Pruning, Mulching	1000.00	Square Feet	473	1	1	\$25.00	\$11,825.00
Fertilizing Shrubs	1000.00	Square Feet	473	0.2	3	\$25.00	\$7,095.00
Raking of Shrub Beds	1000.00	Square Feet	473	0.1	13	\$25.00	\$15,372.50
Lawn Mowing Hand	1000	Square Feet	24	0.11	52	\$25.00	\$3,432.00
Prune Tree	1.00	Each	849	0	1	\$39.00	\$33,111.00
Pesticide Application Hand	1000.00	Square Feet	473	0.68	2	\$25.00	\$16,082.00
Rodent Control	1.00	Acres	10.85	0.8	2	\$25.00	\$434.00
Utility / Material Costs							
Annual Water Costs for 10.85 Acres				Provided by County			\$40,960.00
Fertilizer (Assumed 100 Lbs Acre)							\$1,000.00
Mulch			390			\$35.00	\$13,650.00
Annual Electrical Costs							\$54,000.00
						Subtotal=	\$331,717.41

Total Direct Costs= \$331,717.41

Escalation (8%) for Two Years \$ 26,537.39

Contingency (10%) \$ 33,171.74

Grand Total= \$ 391,426.54

Probable Landscape Maintenance Cost

**Ballon Creek Trail Phase III Improvements Project #
13-Nov-03**

Note: The following statement of probable landscape maintenance cost is for preliminary budgetary purposes only. Estimated unit prices are based on elements shown on the schematic plans only and are not based on detailed design plan or construction documents. The pricing is based upon an hourly rate of \$26.00 per hour.

Maintenance Task	Units	Quantity	Unit	Time in Hours	Frequency per year	Cost/Unit	Extension
General Maintenance Costs							
Litter Pick-up	0.5		ACRE	1	104		\$0.00
Graffiti Removal							
Sweep Channel		32	ACRE	0.5	4		
Safety Inspections			SF		2		\$0.00
Equipment Maintenance			UNIT		2		\$0.00
Paved Areas							
Blower Clean	1000		SF	0.1	156		\$0.00
Steam Clean	1000		SF	0.84	8		\$0.00
Lighting							
Relamp Bollards	1	0	EA	0.3	0.304		\$0.00
Relamp Pole Lights	1		EA	0.5	0.304		
Waste / Recycling Receptacles							
Empty Receptacles	1.00	35	EA	0.08	156	\$26.00	\$11,356.80
Signage							
Repair	1.00		EA	0.5	1		\$0.00
Bollards Bike Racks							
Repair	1.00		EA	1	1		
Walls, Fencing, Gates							
Repair	1.00		SF		0.1		
Steam Clean	1.00		LF		0.5		
Drinking Fountains							
Repair	1.00		EA	1.5	1		
Cleaning	1.00		EA	0.1	52		
Irrigation							
Service and Repair Backflow	1.00		SF	2	1		
Program Controllers	1.00		EA	1	3		
Check and Repair Sprinklers	1.00		EA	0.5			
Check and Repair Valves	1.00		EA	0.17			
Planting							
Shrub Bed Weeding, Pruning, Mulching	1,000.00	113.1	SF	1	1	\$26.00	\$2,940.60
Fertilizing Shrubs	1,000.00	113.1	SF	0.2	3	\$26.00	\$1,764.36
Raking of Shrub Beds	1,000.00	113.1	SF	0.2	52	\$26.00	\$30,582.24
Lawn Mowing Hand	1000		SF	0.11	52		
Lawn Mowing Tractor	1.00		ACRE	1.92	52		
Lawn Edging	1000		LF	0.5	52		
Aerate Lawn	1.00		ACRE	2	1		
Fertilizing Lawn Push	1.00		ACRE	2.96	3		
Prune Tree	1.00		EA	0	1	\$39.00	
Pesticide Application Hand	1000	0	SF	0.68	2		
Rodent Control	1.00		ACRE	0.8	2		
Water, Electricity							
Annual Water Costs							
Annual Electrical Costs							
						Subtotal=	\$46,644.00

Total Direct Costs=	#REF!
Overhead & Profit (10%)	#REF!
Regional Cost Index (#% - see R.S. Means location factor index)	#REF!
Escalation (8%)	#REF!
Contingency (10%)	#REF!
Grand Total=	#REF!

