

# City of Garden Grove

## CONSULTING ENGINEERING SERVICES

### Bicycle and Pedestrian PS&E Engineering Design

TASK DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER	STAFF ENGINEER	SURVEY MANAGER	PROJECT SURVEYOR	2-MEN SURVEY DESIGN	PROJECT LANDSCAPE ARCHITECT	LANDSCAPE ARCHITECT	CADD DESIGNER	IRRIGATION DESIGNER	LANDSCAPE CADD	PROJECT ADMIN	TOTAL HOURS	SUB-CONSULTANT COSTS	AMOUNT	
<b>Phase 1 - Project Administration</b>																
1. Project Management		8											4		\$ 1,840	
2. Project Meetings		6	6					6					4		\$ 3,990	
3. Quality Control			4										4		\$ 620	
<b>Phase 1 Subtotal</b>		14	10	0	0	0	6	6	0	4	0	8	42	\$0	\$ 6,450	
<b>Phase 2 - Preliminary Field Investigation</b>																
1. Field Investigation			4	4					5				5		\$ 2,410	
2. Drainage Review		4	10										14		\$ 2,290	
3. Data Collection Review/Utility Research			6	18									28		\$ 3,270	
4. Topographic Survey			4		2	28							52	\$ 7,000	\$ 18,200	
<b>Phase 2 Subtotal</b>		4	24	22	2	28	0	18	5	0	5	4	112	\$7,000	\$ 26,170	
<b>Phase 3 - Preliminary Design</b>																
1. Preliminary Bike Trail Alignments		4	12	20			4		12		14		36		\$ 4,800	
2. Preliminary Landscape Plans			8										30		\$ 3,800	
3. Geotechnical Investigation Review		4	16	30									62		\$ 1,980	
4. Traffic Study			16	25									45		\$ 8,740	
5. Conceptual Traffic Geometric Plans			8	12									20		\$ 6,090	
<b>Phase 3 Subtotal</b>		32	48	75	0	0	4	12	0	0	14	0	185	\$0	\$ 25,410	
<b>Phase 4 - Final Design PS&amp;E</b>																
1. Final Bike Trail Plans		4	24	66			18		28				94		\$ 11,720	
2. Landscape Architecture Plans			6	38									50		\$ 6,750	
3. Bike Trail Pavement Delineation Plans		10	22	50									82		\$ 8,080	
4. Street Crossing Pavement Delineation Plans			12	18									30		\$ 10,760	
5. Bike Trail Lighting Design		12	20	28									60		\$ 3,840	
6. Traffic Signal Plans													0		\$ 8,400	
7. OCHCA Permit													0		\$ 0	
8. Cost and Quantity Estimates		2	8	18			2				5		40		\$ 5,010	
9. Construction Specifications		8	16				4				4		32		\$ 5,180	
<b>Phase 4 Subtotal</b>		42	120	218	0	0	24	17	28	13	5	0	450	\$0	\$ 59,740	
<b>Phase 5 - Construction Services</b>																
1. Preconstruction Support													0		\$ 0	
2. Construction Support													0		\$ 0	
<b>Phase 5 Subtotal</b>		0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$ 0	
<b>Deliverables/Reimbursable Expense</b>															\$ 1,500	
<b>Project Total</b>		92	202	315	2	18	28	34	17	28	22	19	12	789	\$ 7,000	\$ 119,270