Staffing and Cost of Engineering Services

Table 1: Project Staffing

Task	Hours Per Staff Member			Total Hours	
	Sr. ENG	Assoc. ENG	EIT		
1.0 Site Investigation	3	3	3	9	
2.0 Field Sampling					
2.1 Field Work Plan	1	1	7	9	
2.2 Field Work	1	9	20	30	
3.0 Geotechnical Analysis					
3.1 Sieve Analysis	1	2	15	18	
3.2 Hydrometer	1	2	15	18	
3.3 Atterberg Limits	1	2	15	18	
3.4 Sand-Cone Test	1	2	15	18	
3.5 Tri-axial	1	2	15	18	
3.6 Consolidation	1	2	15	18	
4.0 Hydrology					
4.1 Watershed Delineation	1	3	8	12	
4.2 Time of Concentration	2	6	16	24	
4.3 Storm Event Runoff	1	3	8	12	
5.0 Hydraulics					
5.1 LID Development	1	3	8	12	
5.2 Pre/Post Floodplain Map	1	3	8	12	
5.3 Proposed Water Disbursement	1	3	8	12	
30% Milestone					
6.0 Wall Design Process					
6.1 Wall Designs	4	48	38	90	
6.2 Plan and Profiles	1	1	7	9	
6.3 Final Wall Design Selection	2	6	1	9	
60% Milestone					
7.0 Impacts	3	3	3	9	
8.0 Project Management					
8.1 Meetings					
8.1.1 Team Meetings	10	10	10	30	
8.1.2 Grading Instructor Meetings	15	15	15	45	
8.1.3 Technical Advisor Meetings	8	8	8	24	
8.1.4 Client Meetings	2	2	2	6	
8.2 Schedule and Resource Management	16	3	1	20	
	10	3	1	20	
8.3 Deliverables					

8.3.1 30% Submittal and Revisions	1	6	17	24
8.3.2 60% Submittal and Revisions	1	6	17	24
8.3.3 90% Submittal and Revisions	6	12	30	48
8.3.4 100% Submittal	1	6	17	24
8.3.5 Website	4	10	14	28

Table 2: Cost of Engineering Services

Item	Description	Cost per Unit	Number of Units	Units	Cost
	Sr. Eng.	\$180	92	Hours	\$16,560
	Assoc. Eng.	\$135	182	Hours	\$24,570
	EIT	\$90	356	Hours	\$32,040
1.0 Personnel:	Total Personnel:				\$73,170
2.0 Supplies:	Lab Rental	\$100	108	Hours	\$10,800
3.0 Travel	12 miles round trip @ 10 visits	\$0.62	120	Miles	\$74
4.0 Total					\$84,044