

Discovery Bay RV Resort - budget for the approved scope of work

A . GENERAL NEED

1) Meet and discuss community vision;

Staff Person	Activity	Time	Rate	Cost
Principal Engineer	Travel	1.50	\$140.00	\$210.00
Principal Engineer	On Site	2.00	\$140.00	\$280.00
Principal Engineer	Summary	1.50	\$140.00	\$210.00
				\$700.00

2) Copy and store existing septic system maps for resort and NTI use;

Staff Person	Activity	Time	Rate	Cost
Technical Assistant	Copying	2.00	\$40.00	\$80.00
Principal Engineer	Develop fFile System	2.00	\$140.00	\$280.00
Technical Assistant	Filing	1.00	\$40.00	\$40.00
				\$400.00

Off-site
Plan
Storage
Program

3) Locate and review existing NTI drainage plans;

Staff Person	Activity	Time	Rate	Cost
Principal Engineer	Research	1.50	\$140.00	\$210.00
Technical Assistant	Copying	1.00	\$40.00	\$40.00
Technical Assistant	Filing	1.00	\$40.00	\$40.00
				\$290.00

4) Assemble all known site utility plans and develop an off-site archival storage location for the resorts utility plans;

Staff Person	Activity	Time	Rate	Cost
Principal Engineer	Research	1.50	\$140.00	\$210.00
Technical Assistant	Copying	1.50	\$40.00	\$60.00
Technical Assistant	Filing	1.00	\$40.00	\$40.00
				\$310.00

"A" Item Total = \$1,700.00

B. DRAINAGE MANAGEMENT NEEDS

1) Assemble a total site aerial photo/map to use as a hot spot plan base map to identify areas of site drainage maintenance need;

Staff Person	Activity	Time	Rate	Cost	
Principal Engineer	Research	2.00	\$140.00	\$280.00	+
Principal Engineer	Copying	1.00	\$140.00	\$140.00	
Technical Assistant	Mounting	2.00	\$40.00	\$80.00	
				\$500.00	+

Prepare
Visual
Guide

2) Prepare a overall site hot spot drainage maintenance plan along with the resort's staff and residents;

Staff Person	Activity	Time	Rate	Cost	
Principal Engineer	Meeting Preparation	1.50	\$140.00	\$210.00	+
Principal Engineer	Travel	1.50	\$140.00	\$210.00	
Principal Engineer	First Meeting	2.00	\$140.00	\$280.00	
Design Engineer	Draft Plan Writing	16.00	\$110.00	\$1,760.00	Prepare
Principal Engineer	Editing	4.00	\$140.00	\$560.00	Body of
Technical Assistant	Printing	2.00	\$40.00	\$80.00	Plan
Principal Engineer	Meeting Preparation	1.50	\$140.00	\$210.00	
Principal Engineer	Travel	1.50	\$140.00	\$210.00	
Principal Engineer	Second Meeting	2.00	\$140.00	\$280.00	
Design Engineer	Final Plan Writing	8.00	\$110.00	\$880.00	
Principal Engineer	Editing	4.00	\$140.00	\$560.00	
Technical Assistant	Printing	2.00	\$40.00	\$80.00	
				\$5,320.00	+

Prepare
Body of
Plan

3) Prepare standard plans for a series of spot improvements and/or corrective drainage maintenance actions such as french drains and/or roadside ditches, etc;

Staff Person	Activity	Time	Rate	Cost	
Principal Engineer	Design	2.00	\$140.00	\$280.00	+
Design Engineer	Design/Drafting	8.00	\$110.00	\$880.00	
Principal Engineer	Review	2.00	\$140.00	\$280.00	Prepare
Design Engineer	Design/Drafting	4.00	\$110.00	\$440.00	Plan
Technical Assistant	Printing for Insertion	1.00	\$40.00	\$40.00	Appendix
				\$1,920.00	No. 1

Prepare
Plan
Appendix
No. 1

4) Identify the type(s) of standard plans to use in the various drainage maintenance hot spots;

Staff Person	Activity	Time	Rate	Cost	
Principal Engineer	Design	2.00	\$140.00	\$280.00	+
Design Engineer	Design/Drafting	8.00	\$110.00	\$880.00	
Principal Engineer	Review	2.00	\$140.00	\$280.00	Prepare
Design Engineer	Design/Drafting	4.00	\$110.00	\$440.00	Plan
Technical Assistant	Printing for Insertion	1.00	\$40.00	\$40.00	Appendix
				\$1,920.00	No 2

Prepare
Plan
Appendix
No 2

5) Evaluate off site drainage runoff carrying feature capacity to allow successful through-put of any additional resort drainage output resulting from the on-going maintenance of sit drainage facilities.
Prepare a scheme of on-site mitigative actions if needed;

Staff Person	Activity	Time	Rate	Cost	
Principal Engineer	Preparation/Design	1.00	\$140.00	\$140.00	+
Principal Engineer	Travel	1.50	\$140.00	\$210.00	
Principal Engineer	Site Visit Research	2.00	\$140.00	\$280.00	Prepare
Design Engineer	Design/Drafting	8.00	\$110.00	\$880.00	Plan
Principal Engineer	Review	2.00	\$140.00	\$280.00	Appendix
Design Engineer	Design/Drafting	4.00	\$110.00	\$440.00	No 3
Technical Assistant	Printing for Insertion	1.00	\$40.00	\$40.00	and
Principal Engineer	Presentation Prep	2.00	\$140.00	\$280.00	Aggregate
Principal Engineer	Travel	1.50	\$140.00	\$210.00	Plan
Principal Engineer	Final Presentation	2.00	\$140.00	\$280.00	
				\$3,040.00	+

Prepare
Plan
Appendix
No 3
and
Aggregate
Plan

"B" Item Total = \$12,700.00

C. SEPTIC SYSTEM MANAGEMENT NEEDS

1) Evaluate the original design(s) for the on-site drain fields for existing loading and potential for a revised loading scheme to better proportion field loading;

Staff Person	Activity	Time	Rate	Cost	
Principal Engineer	Preparation/Design	2.00	\$140.00	\$280.00	Basic Project
Principal Engineer	Travel	1.50	\$140.00	\$210.00	
Principal Engineer	Discussion Meeting	2.00	\$140.00	\$280.00	
Design Engineer	Design/Drafting	8.00	\$110.00	\$880.00	
Principal Engineer	Review	2.00	\$140.00	\$280.00	
Design Engineer	Design/Drafting	4.00	\$110.00	\$440.00	
Technical Assistant	Printing	1.00	\$40.00	\$40.00	
				\$2,410.00	+

2) Prepare a revised effluent flow split scenario along with a preliminary plumbing plan and cost estimate for community discussion and modification;

Staff Person	Activity	Time	Rate	Cost	
Principal Engineer	Preparation/Design	2.00	\$140.00	\$280.00	Split Alt #1
Principal Engineer	Travel	1.50	\$140.00	\$210.00	
Principal Engineer	Update Meeting	2.00	\$140.00	\$280.00	
Design Engineer	Design/Drafting	8.00	\$110.00	\$880.00	
Principal Engineer	Review	2.00	\$140.00	\$280.00	
Design Engineer	Design/Drafting	4.00	\$110.00	\$440.00	
Technical Assistant	Printing for Insertion	1.00	\$40.00	\$40.00	
				\$2,410.00	+

3) Prepare a revised scenario and cost estimate based upon the community's input;

Staff Person	Activity	Time	Rate	Cost	
Principal Engineer	Preparation/Design	2.00	\$140.00	\$280.00	Flow Split Alt #2
Principal Engineer	Travel	1.50	\$140.00	\$210.00	
Principal Engineer	Discussion Meeting	2.00	\$140.00	\$280.00	
Design Engineer	Design/Drafting	8.00	\$110.00	\$880.00	
Principal Engineer	Review	2.00	\$140.00	\$280.00	
Design Engineer	Design/Drafting	4.00	\$110.00	\$440.00	
Technical Assistant	Printing for Insertion	1.00	\$40.00	\$40.00	
				\$2,410.00	+

4) Prepare a phasing plan for the revised scenario along with phase cost estimates;

Staff Person	Activity	Time	Rate	Cost	
Principal Engineer	Preparation/Design	2.00	\$140.00	\$280.00	Plumbing Revision Phasing Plan
Principal Engineer	Travel	1.50	\$140.00	\$210.00	
Principal Engineer	Strategy Meeting	2.00	\$140.00	\$280.00	
Design Engineer	Design/Drafting	8.00	\$110.00	\$880.00	
Principal Engineer	Review	2.00	\$140.00	\$280.00	
Design Engineer	Design/Drafting	4.00	\$110.00	\$440.00	
Technical Assistant	Final Plan Printing	1.00	\$40.00	\$40.00	
Principal Engineer	Meeting Preparation	2.00	\$140.00	\$280.00	
Principal Engineer	Travel	1.50	\$140.00	\$210.00	
Principal Engineer	Final Plan Meeting	2.00	\$140.00	\$280.00	
				\$3,180.00	+

5) Begin coordination with the State and County Health Departments (once a community supported plan is completed) to begin implementation of the phased plan;

Staff Person	Activity	Time	Rate	Cost	
Principal Engineer	Coord w/ State	3.00	\$140.00	\$420.00	Present to DOH for OK
Principal Engineer	Travel	1.50	\$140.00	\$210.00	
Principal Engineer	Update Meeting	1.00	\$140.00	\$140.00	
Design Engineer	Revise per State	4.00	\$110.00	\$440.00	
Principal Engineer	Review	1.00	\$140.00	\$140.00	
Design Engineer	Revised Submission	1.00	\$110.00	\$110.00	
Technical Assistant	Submission Printing	1.00	\$40.00	\$40.00	
				\$1,500.00	+

"C" Item Total = \$11,910.00

Overall Total = \$26,310.00