SCOPE OF WORK ROCKSLIDE MITIGATION PROJECT

Project Description

The Rockslide Mitigation project will mitigate slope-failure hazards on Municipal property above the northern end of Skagway's primary cruise ship berth. To address the hazards expected from slope failure at the project location, the Municipality of Skagway proposes to design a mitigation project that includes:

- Excavating the unstable rock mass at the top of the slope, which will be accomplished
 with conventional earthmoving equipment and drill and blast techniques. Excavated rock
 will be sent down the existing slide path after excavation to catchment at the toe of the
 slope.
- Improvement to the existing catchment area at the toe of the slope. From here, the debris will be excavated and disposed of at an offsite location.
- Stabilizing the rock mass in the head scarp of the excavation and adding rockfall
 protection to the resulting slope. Rockfall protection will likely include the installation of
 draped mesh and attenuators on the slope as well as barriers and fencing on the dock.
- Replacement of the existing monitoring system at the project site, which is expected to be damaged during construction of the proposed mitigation activities.

The project will be divided into two Phases. Phase 1 will consist of design and Phase 2 will include construction and project completion. For Phase 1, the Municipality of Skagway will engage engineers to provide the following deliverables and assistance:

- Engineer's estimate for the construction project
- 65% design
- 100% design
- Project management and administration
- Project site visit(s) and meetings
- Request for Proposal development and bidding assistance
- Permitting services

Proposed Timeline

The Municipality of Skagway proposes to complete the Rockslide Mitigation project (Phases 1 and 2) between August of 2023 and April of 2026. Most of the Phase I work will occur between August 2023 and May 2024; however, the Municipality anticipates that a phased design approach may be needed to accommodate multiple construction steps/seasons which could extend the design effort. Furthermore, field changes to the design may require utilizing the firm contracted for design work through the completion of both Phases 1 and 2 (though construction phase engineering services are not included in this estimate). Therefore, the timeline for Phase 1 design of the Rockslide Mitigation project may span August 2023 to April 2025, dependent on funding.

July 20, 2023 Award of design contract

August 1, 2023 Notice to proceed / executed design contract

Aug. – Dec., 2023	Permitting		
January 1, 2024	65% design		
April 1, 2024	100% design		
May 1, 2024	Construction RFP issued		
July 11, 2024	Award of construction contract		
July 18, 2024	Notice to proceed / executed construction contract		
April 1, 2026	Construction Project completion		

Budget Narrative

At 10% design, the total estimated cost of the rockslide mitigation project is:

Design (Phase 1): \$ 1,175,253 Construction (Phase 2): \$27,208,872 Total Estimated Cost: \$28,384,125

The Municipality of Skagway intends to apply the \$1,100,000 Legislative grant and \$75,253 of municipal funds to the cost of Phase I design.

Estimated costs for Phase I design work are detailed below, and work will be conducted on a time and materials basis in accordance with a contract(s) for professional services.

Engineer's estimate			\$33,929
65% design			
	Site reconnaissance	\$35,410	
	Geotech Design	\$65,800	
	Engineering	\$140,486	
	Administration	\$45,200	\$286,896
100% design			
	Geotech Analysis	\$51,000	
	Engineering	\$147,869	
	Administration	\$51,400	\$250,269
Project management			\$143,499
Site visits			\$66,078
RFP assistance			\$273,518
Permitting services			
	Site visit	\$15,049	
	ACoE permitting	\$25,890	
	Biological assessment	\$15,465	
	Alternatives analysis	\$11,835	
	DEC permitting	\$4,172	
	FEMA analysis	\$15,080	
	Discharge permitting	\$9,908	
	Local permitting	\$1,380	
	NEPA support	\$10,635	
	Administration	\$11,650	\$121,064
		TOTAL COST	\$ 1,175,253