Revised Scope of Work

Project Name: Molas Lake Ditch Rehabilitation and Diversion Structures

Submitted by the Town of Silverton, CO

June 2, 2011

Scope of Work

Task 1 (the Town is NOT requesting money for this task)

- Description of task: Complete dam and recreation improvements at Molas Lake Park
- Method or procedure that will be used or followed to accomplish the task and identify who will undertake the task:
 - o Complete dam improvements per state and federal permits and contract with the Department of Local Affairs
 - Complete recreation improvements at Molas Park per contract with Great Outdoors Colorado
- Description of the major deliverables/products that will be produced upon successful completion of the task:
 - o Completed, backfilled dam, including "as-builts" of those structures submitted to state.
 - o Completed recreation improvements, including campsites, privies, dump station, etc.

Task 2

- Description of task: Complete wetland mitigation required per Army Corps Permit (Revegetation, wetland mitigation, and ditch stabilization)
- Method or procedure that will be used or followed to accomplish the task and identify who will undertake the task:
 - o Revegetate or stabilize all ground where soil has been exposed.
 - o Control any potential spread of noxious weeds.
 - Reseed with weed-free seed mix
 - Work to be completed by Alpine Environmental Services, currently under contract for dam improvements at Molas Lake
- Description of the major deliverables/products that will be produced upon successful completion

of the task:

 Provide narrative and/or photos of revegetation areas including certification of weed-free revegetation.

Task 3

- Description of task: Complete rehabilitation of Molas Ditch
- Method or procedure that will be used or followed to accomplish the task and identify who will undertake the task:
 - o Remove vegetation to limit potential clogging around ditch
 - o Remove clogs and roots in ditch bottom
 - Modify grade to improve capacity and freeboard and reduce or eliminate overflow/clogging
 - Work to be completed by Brian Fullmer Construction of Silverton
- Description of the major deliverables/products that will be produced upon successful completion of the task:
 - Satisfaction of Forest Service permit conditions regarding use of public land
 - o Narrative and photos of rehabilitation of ditch.

Task 4

- Description of task: Install structures and equipment
- Method or procedure that will be used or followed to accomplish the task and identify who will undertake the task:
 - Using the approved engineered drawings and specifications provided by Engineer Mountain, Maisel Excavation will install and test the following:
 - Diversion structure
 - Waste gate
 - Measuring flume
 - The structures and equipment will be installed at the locations specified in the Forest Service Permit and BLM Use Permit, attached.
- Description of the major deliverables/products that will be produced upon successful completion of the task:
 - o Narrative and photos of all structures and equipment
 - o Final "as-built" plans prepared by "Engineer Mountain," project engineers
 - o Satisfaction of conditions of all state and federal permits
 - o Operational ability of dam and ditch

Project Budget

Description	Cost		Quantity	Unit		Total	
Wetland Mitigation							
Environmental Consulting	\$	90.00	15	hours	\$	1,350.00	
Man hours	\$	35.00	100	hours	\$	3,500.00	
Seed / mulch	\$	600.00	1	lump sum	\$	600.00	
Mini excavator	\$	80.00	8	hours incl labor	\$	640.00	
Bobcat / skidsteer	\$	100.00	12	hours incl labor	\$	1,200.00	
				Total	\$	7,290.00	
Ditch Rehabilitation							
Mini excavator	\$	100.00	10	hours incl labor	\$	1,000.00	
Bobcat / skidsteer	\$	80.00	18	hours incl labor	\$	1,440.00	
Man hours	\$	35.00	100	hours	\$	3,500.00	
Monitroing	\$	50.00	33	hours	\$	1,650.00	
				Total	\$	7,590.00	
Structures and measuring							
2" Measuring Flume	\$ 4	1,450.00	2	each incl labor	\$	8,900.00	
9" Parshall Flume	\$ 12	2,184.00	1	lump sum incl labor	\$:	12,184.00	
SRW Waste Gate	\$ 17	7,952.00	1	Lump sum (340 ft ² face incl labor)	\$ 1	17,952.00	
Adjustable and fixed weirs, stop logs and appurtananances at diversion point waste gate	\$ 22	2,973.60	1	lump sum incl labor	\$ 2	22,973.60	
Adjustable and fixed weirs and appurtananances at second waste gate		5,348.80		lump sum incl labor		15,348.80	
Ongoing monitoring by		-					
engineer	\$	50.00	55	hours	\$	2,750.00	
				Total		80,108.40	
				Grand Total	Ś	94,988.40	

Project Schedule

Task or Sub-task	Ву	Due Date
Finalize permitting and monitor	Engineer Mountain, Inc.	Ongoing
state/federal permitting		
requirements		
Complete installation of dam	Maisel Excavation	June 15, 2009
(slidegate, top of box culvert, fill,		
safety railing)		
Verify all permitting requirements for	Engineer Mountain,	June 31, 2009
Dam are met	Town of Silverton	
Finish wetland mitigation as required	Alpine Environmental	June 31, 2009
for dam and ditch approvals per the	Services	
Army Corps of Engineers		
Begin ditch improvements	Maisel Excavation	August 17, 2009
Milestone 1: Earthwork Begins		
Improvements to Molas Ditch incl.	Maisel Excavation	August 31, 2009
clear ditch bottom, remove		
vegetation, grade to improve capacity		
and reduce spillage. Work completed		
as required by the Forest Service		
federal lands permit and BLM use		
permit (COC 73198)		
Milestone 2: Ditch Improvements		
Complete		
Complete construction and	Maisel Excavation	September 14, 2009
installation of diversion structure and		
waste gates		
Milestone 2: Diversion structure and		
measure flume in place.		
Install measuring flumes and	Maisel Excavation	July 15, 2011
complete any remaining ditchwork		
and vegetation removal		
Milestone 3: Major work to ditch		
complete, structures in place water is		
able to be measured and regulated.		
Monitor permit compliance	Engineer Mountain	Ongoing
Submit final "as-builts" for ditch	Engineer Mountain	October 31, 2011
improvements as/if required per		
federal permits		
Milestone 4: Submit as-builts		
Close out project	Town of Silverton	November 30, 2011