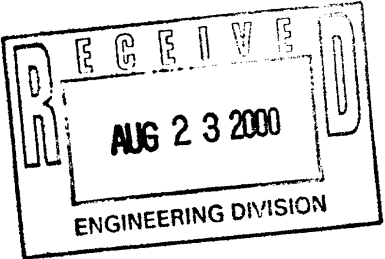




FMG, INC. 3700 Sturgis Road, Rapid City, South Dakota 57702-0317 605/342-4105  
FAX 605/342-4222

August 23, 2000



Mely Rahn P.E.  
City of Rapid City  
300 Sixth Street  
Rapid City, SD 57701

RE: PRELIMINARY DESIGN OF LIME CREEK DETENTION PONDS  
CONTRACT AMENDMENT #2

Dear Mely:

This shall serve as Contract Amendment #2 for the above referenced contract.

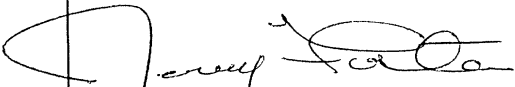
The added work to be completed under this amendment is (1) preparation of Abandonment Plans for the Historic Water System structures in the Wilderness Park area, and (2) Part Time Construction Observation of Earthwork related items during the construction of Metering Pond 386.

The estimated additional cost of services for the Contract Amendment is \$5,396.25 as outlined below.

Item 1 - Historic Water System Plans	5 hrs PE @ \$80.00/hr	\$400.00
Item 2 - Construction Observation	See Attachment 1	\$4,996.25
<b>TOTAL</b>		<b>\$5,396.25</b>

The Construction Observation estimate is subject to change depending on the actual number of hours and tests required at the site. The final contract will be amended to reflect actual Construction Observation work requested by the City.

Sincerely,  
FMG, Inc.

  
Jerry D. Foster P.E.

C: File 8403

APPROVED:  
CITY OF RAPID CITY

BY \_\_\_\_\_  
TITLE: MAYOR  
DATE: \_\_\_\_\_

ATTEST:  
BY: \_\_\_\_\_  
TITLE \_\_\_\_\_  
DATE \_\_\_\_\_

## Attachment 1-Estimate-Lime Creek Detention Pond Observation

PROJECT INFORMATION			CLIENT INFORMATION			
PROJECT NAME:	Lime Creek Detention Pond	NAME:	Ms. Mely Rahn			
PROJECT LOCATION:	Wilderness Park-RCSD	ADDRESS:	300 Sixth Street			
PROJECT TYPE:	Construction Observation	ADDRESS:	Rapid City, SD 57701			

Task/Item/Materials	Quantity	Units	@	Rate	per Unit	Sub-Total
<b>FIELD SERVICES</b>						
Rig Mobilization		miles	@	\$1.25	per mile	\$0.00
Pickup Mobilization	75	miles	@	\$0.35	per mile	\$26.25
Crew Travel - 2 men		hours	@	\$75.00	per hour	\$0.00
Crew Expenses		man days	@	\$60.00	/man day	\$0.00
Drill Rig Operation		hours	@	\$45.00	per hour	\$0.00
Drill Rig Operator		hours	@	\$30.00	per hour	\$0.00
Field Technician		hours	@	\$30.00	per hour	\$0.00
Senior Field Technician	40	hours	@	\$35.00	per hour	\$1,400.00
Field Geologist		hours	@	\$45.00	per hour	\$0.00
Environmental Scientist		hours	@	\$60.00	per hour	\$0.00
Geotechnical Engineer	11	hours	@	\$80.00	per hour	\$880.00
Well materials, etc.		feet	@	\$7.50	per foot	\$0.00
Wellheads with locks		heads	@	\$85.00	per head	\$0.00
HNu (Photoionization Device)		days	@	\$50.00	per day	\$0.00
Rental of Backhoe Equipment		hours	@	\$90.00	per hour	\$0.00
<b>Sub-Totals</b>						<b>\$2,306.25</b>

<b>PHYSICAL LABORATORY</b>						
Moisture Content/Density		tests	@	\$15.00	each	\$0.00
Atterberg Limits	5	tests	@	\$50.00	each	\$250.00
Standard Sieve Analysis		tests	@	\$45.00	each	\$0.00
Hydrometer Grain Analysis	5	tests	@	\$90.00	each	\$450.00
Unconfined Compression		tests	@	\$50.00	each	\$0.00
Consolidation/Swell		tests	@	\$275.00	each	\$0.00
Permeability		tests	@	\$150.00	each	\$0.00
MD Curve (ASTM D698)		tests	@	\$80.00	each	\$0.00
MD Curve (ASTM D1557)	6	tests	@	\$90.00	each	\$540.00
California Bearing Ratio		tests	@	\$250.00	each	\$0.00
Direct Shear Test (2 Points)		tests	@	\$200.00	each	\$0.00
Sample Preparation		hours	@	\$30.00	per hour	\$0.00
<b>Sub-Totals</b>						<b>\$1,240.00</b>

<b>ENVIRONMENTAL TESTING</b>						
TPH+BTEX (Gas in Soil & Water)		tests	@	\$85.00	each	\$0.00
TPH & Naphtha (Diesel in Water & Soil)		tests	@	\$105.00	each	\$0.00
Soils - TCLP Lead		tests	@	\$75.00	each	\$0.00
Miscellaneous Sampling		tests	@	\$55.00	per hour	\$0.00
Sampling Materials (Bailers, Gloves, Etc)		tests	@	\$10.00	each	\$0.00
<b>Sub-Totals</b>						<b>\$0.00</b>

<b>OFFICE SERVICES</b>						
Clerical	10	hours	@	\$25.00	per hour	\$250.00
Drafting (CAD)		hours	@	\$40.00	per hour	\$0.00
Environmental Scientist		hours	@	\$60.00	per hour	\$0.00
Geologist		hours	@	\$40.00	per hour	\$0.00
Geological Engineer		hours	@	\$55.00	per hour	\$0.00
Project Manager/Professional Engineer		hours	@	\$70.00	per hour	\$0.00
Senior Professional Engineer	15	hours	@	\$80.00	per hour	\$1,200.00
Senior Project Manager		hours	@	\$90.00	lump sum	\$0.00
<b>Sub-Totals</b>						<b>\$1,450.00</b>
<b>Grand Total Estimate</b>						<b>\$4,996.25</b>

(plus any applicable taxes)