

REQUEST AUTHORIZATION FOR MAYOR AND FINANCE OFFICER TO SIGN PROFESSIONAL SERVICES AGREEMENT OR AMENDMENT

Date: September 17, 2012

Project Name & Number: Elk Vale Lift Station Upgrades
Project No. 11-1999

CIP #: 50728

Project Description: To provide professional engineering services.

Consultant: Cetec Engineering Services, Inc.

Original
Contract Amount: \$499,204.00

Original
Contract Date: April 17, 2012

Original
Completion Date: June 28, 2013

Addendum No: 1

Amendment Description: Additional time required for CA and project complexity, elimination of final design of force main on Elk Vale Road and addition of design services for Shooting Star Trail Well Abandonment.

Current Contract Amount: \$499,204.00

Current Completion Date: June 28, 2013

Change Requested: \$97,855.54


New Contract Amount: \$597,059.54

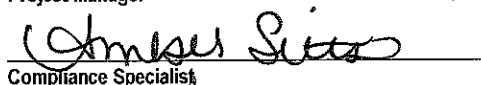
New Completion Date: November 1, 2013

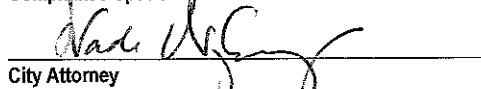
Funding Source This Request:


Amount	Dept.	Line Item	Fund	Comments
\$97,855.54	833	4223	604	
	Total			


Agreement Review & Approvals

 8/29/12
Project Manager Date

 8/29/12
Compliance Specialist Date

 9/5/12
City Attorney Date

 8-30-12
Division Manager Date

 8-30-12
Department Director Date

ROUTING INSTRUCTIONS

Route two originals of the Agreement for review and signatures.
Finance Office - Retain one original
Project Manager - Retain second original for delivery to Consultant
cc: Public Works
Engineering
Project Manager

FINANCE OFFICE USE ONLY

(Note to Finance: Please write date of Agreement in appropriate space in the Agreement document)

Date	Initials	Approved
9/4/12	DE	(Y) N
		(Y) N

Appropriation
Cash Flow

AMENDMENT NO. 1 TO AGREEMENT**Project:**

Elk Vale Lift Station Upgrades

Background Data:

Project No. 11-1999

Effective Date of Agreement: April 17, 2012

Owner: City of Rapid City

Engineer: Cetec Engineering Services, Inc.

Nature of Amendment:

This amendment is for the Elk Vale Lift Station Upgrades and includes additional time required for Construction Administration services, additional design time due to increased project complexity, the elimination of the final design of the force main on Elk Vale Road and the addition of design services for the Shooting Star Trail Well abandonment as shown on the attached Exhibits A, B, and C.

Current Contract Amount:

\$499,204.00

Change Requested:

\$97,855.54

New Contract Amount:

\$597,059.54

Owner and Engineer hereby agree to modify the above referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this or previous Amendments remain in effect. The effective date of this Amendment is:

CITY OF RAPID CITY:

ENGINEER:

By: _____
Mayor

By: _____
Cetec Engineering Services Inc.

Date Signed: _____

Date Signed: _____

ATTEST:

By: _____
Finance Officer

Date Signed: _____

REVIEWED BY:



Michelle Schweitzer, Project Manager



EXHIBIT A – AMENDMENT 1**Elk Vale Lift Station Upgrades
PROJECT NO. 12 – 1999 / CIP 50728****SCOPE OF SERVICES: LIFT STATION DESIGN, BIDDING, AND CONSTRUCTION SERVICES AND SHOOTING STAR TRAIL WELL ABANDONMENT – PROJECT NO. 12-2049 / CIP NO. 50913**

The City of Rapid City (City) proposes to construct upgrades to the existing lift station and force main located at the northwest intersection of Elk Vale Road and Seger Drive in Rapid City, South Dakota. This Amendment No. 1 includes deletion of the force main design outside of the lift station site (per City direction), and additional work required to complete the design components desired by the City. The Amendment also includes additional construction phase services due to a longer construction period and material availability. The City has also requested the abandonment of the existing Shooting Star Trail well in Wildwood Subdivision. Tasks 4 and 5 are being amended to account for the increase in the project schedule and complexity and to add a construction manager.

Below are project outlines that list anticipated work items for each task. Bold items include new tasks that have been added to the project scope:

TASK 1 - PRELIMINARY DESIGN SERVICES**1.6.3 Site Development:****- Additional Future Gravity Sewers Box Elder Creek**

The work includes surveying, plan, and profile of the sewer main north of the lift station site along the centerline of Elk Vale Drive. Research was completed to review previous reports and available information. That information was determined to be inadequate to rely upon for the future sanitary sewer layout and crossing of Box Elder Creek on North Elk Vale Drive. The survey and profile determined the vertical alignment which was lowered to accommodate this future sewer.

1.6.8 Lift Station Layout:**- Additional Equipment Space Allocations Oxygen, Air and Bioxide**

The work includes designs for equipment layouts for the liquid oxygen system, nitrate injection system, and air injection system. The results of the liquid oxygen system cost estimates identified the oxygen as a cost effective solution. The new technology and limited installations required further investigations and building layout modifications.

1.6.9 Odor Control:**- Additional Sampling Results, - Additional Pure Oxygen Alternatives, and- Additional Bioxide Feed**

The work researched each alternative to control odor at the lift station and force main. Each of the three options was researched, designed, and cost estimated. Suppliers of the oxygen equipment required additional wastewater quality parameters to assist in sizing and estimating quantities. Additional sample collection and laboratory testing and time to evaluate the results was required due to the additional parameters. Two independent nitrate suppliers were consulted and demand was calculated to confirm calculations. Significant time

was required to estimate costs and evaluate products from two nitrate suppliers, two local liquid oxygen suppliers, two oxygen generation suppliers, and two air injection equipment suppliers.

1.7 Conceptual Drawings.

Deduct Plan and Profile Sheets (Force Main) - The existing and proposed force main alignment was surveyed and a plan and profile was completed. The force main project was not taken to final design, but a preliminary horizontal and vertical alignment was completed. The project was not broken into plan and profile sheets. This portion of the project was eliminated due to construction budget and preliminary estimates of when the additional force main capacity will be required. The preliminary work product will be provided to the City as a submittal (autocad drawings) and will include survey information and preliminary design information.

TASK 2 - FINAL DESIGN SERVICES

2.9. Provide detailed traffic control plan showing all devices required for MUTCD compliant plan.

2.9A Additional Traffic Control Plan (Utilities)

A traffic control plan for the force main project was not completed and has been deleted. A conceptual traffic control plan was added and completed for the utility work required near the intersection of Seger Drive and Elk Vale Road.

2.10A Additional Utility Relocations

The work includes final designs for relocations of utilities located near the corner of Seger Drive and Elk Vale Road. The impact of the Elk Vale trunk sewer and site grading required the lowering and relocation of existing utilities beyond the original scope estimated. The work includes lowering and relocations of the water main, Century Link fiber optic lines, West River Electric Association lines, and significant crossings of the Montana Dakota Utility gas main as relocation was not allowed due to the project schedule. Additional consultations, meetings and investigations were required to complete the utility relocations plans.

2.10B Additional Vortex Manhole Design

A vortex manhole was required due to the additional depth of the lift station wet well to stay within design criteria tolerances. Additional investigation, design, and specifications were required to complete the vortex manhole design.

2.10C Additional Odor Control Oxygen, Bioxide and Air

The work includes final designs for equipment installations for the liquid oxygen system, nitrate injection system, and wet well air injection system. The results of the liquid oxygen system cost estimates identified the oxygen as the primary odor control with bioxide and air injection as alternates. The new technology and limited installations required further investigations and building layout modifications. There were limited suppliers available for this equipment and installations within the region were reviewed to determine how recent installations were operating. Odor control was also designed and specified on the wet well structure.

2.12. Provide detailed plans and specifications.

- Deduct Force Main Complete Plans

Final force main designs were not completed and are deleted from the project.

2.23. Additional Shooting Star Well Abandonment

- **Records Search / Background Data**

Research and investigate well log, site conditions, property and easement research, and available background data.

- **Site Visit, Measurements / Base Plan**

Prepare a basic base plan for the well and well house site. Complete brief topographic survey and utility locations in the field to determine easement locations and site layout.

- **Plans and Plan Notes/Demolition Plan**

Prepare a base plan for demolition of well and well house features. Abandon existing structures and facilities on the plan.

- **Special Provisions and Bid Documents**

Provide language to allow the City to solicit bids or quotes on the project. If necessary, the City front end bidding documents will be provided by the City.

- **Vacation of Easement**

Complete exhibit to identify vacation of existing well easement on the property. Send out requests to utilities for input on vacation of easement. Present vacation documents to the City Public Works Department.

- **Informational Meeting with Landowner.**

Discuss proposed work with landowner and determine access requirements, abandonment issues, restoration, scheduling, and scope of work.

TASK 3. BIDDING SERVICES

3.7. Shooting Star Trail Well Abandonment

- **Prebid Meeting / Minutes**

Hold meeting with prospective Contractors for prebid meeting.

- **Clarifications and Addenda**

Issue bid addenda and consult with Contractors during the bidding process.

- **Review Bids / Recommend Award**

Review bid results and make recommendation to the City on bid award.

TASK 4. BASIC CONSTRUCTION SERVICES

- 4.1. Prepare Notice to Proceed for City of Rapid City project manager signature and distribution to contractor for execution.
- 4.2. Conduct a Pre-Construction Conference including agenda. Record minutes and distribute to all attendees. An example of an agenda is enclosed as Attachment 5 for your information.
- 4.3. Provide written clarification regarding drawing and specification questions.

- 4.4. Provide recommendations to address changed or unknown conditions that may appear during construction.
- 4.5. Review and take action on shop drawings, product submittals, test results, and other submittals. Estimate 130 submittals from the Contractor.
- 4.6. Prepare "As-Built" plans and specifications. "As-Built" plans and specifications shall be submitted as a hard copy and on CD compatible with AutoCAD Release 2008 or newer format. Submit to Engineering Services within 30 days of project completion. In the event that the City did not issue a "Notice to Proceed" for Task 5 services, then the City shall forward construction record documents for preparing the "As-Built" plans and specifications.
- 4.7. Assemble and distribute the Operations and Maintenance Manual from information provided by the Contractor.
- 4.8. Schedule equipment training with manufacturers and Utility Maintenance personnel.
- 4.9. **Shooting Star Trail Well Abandonment**
 - **Preconstruction Meeting**
Prepare preconstruction meeting agenda and hold conference with the Contractor prior to construction. Issue meeting minutes.
 - **Submittals**
Review Contractor furnished submittals and schedule for the project. Act on submittals and forward to the City.
 - **Pay Estimate**
Review pay estimate for the project and recommend payments to the City.

TASK 5. EXPANDED CONSTRUCTION SERVICES

- 5.1. Mark removal limits of appropriate items.
- 5.2. Prepare Public Service Announcements (P.S.A.'s) for Engineering Services. Engineering Services will be responsible for distribution to all local media. Copies of P.S.A.'s shall be distributed one week prior to start of work or change in operations that may significantly affect the public.
- 5.3. Appropriately notify affected Property Owners.
- 5.4. Conduct progress meetings estimated at 29 meetings. Record minutes and distribute to all attendees. Conduct specialized integration meetings such as preplanning meetings for concrete, steel, electrical, and pumps.
- 5.5. Provide daily on-site observation during designated time period from August 2012 to November 1, 2013 to assure that the methods and materials used by the contractor meet the intent of the plans and specifications. For buried installations such as for sewer and water mains, the Consultant shall be on site and witnessing the installation of these buried installations.
- 5.6. Prepare daily reports. A daily record of activity will be maintained by the inspector including weather conditions, construction progress, deviations from the plans and specifications, work performed, quantities installed and any other pertinent information. Such information shall be

neatly and concisely entered into the City of Rapid City Project Inspector's Diary and Inspection quantity book. Submit detachable copies to Engineering Services on a weekly basis. Electronic format is anticipated.

- 5.7. Perform stormwater inspections, prepare reports, and keep the erosion and sediment control plans current as required by the ordinance regulating construction site runoff control, Chapter 8.46, and the Stormwater Quality Manual.
- 5.8. Provide soil compaction testing according to the Standard Specifications for structure. All test results shall be submitted to the City of Rapid City within 30 days of project completion.
- 5.9. Start-up services upon project completion. Testing and trial settings for operational efficiency.
- 5.10. Prepare and submit monthly pay request information.
- 5.11. Prepare change orders, and extra work orders for contractor on City of Rapid City forms and make recommendations for their approval or denial.
- 5.12. Prepare and submit project completion punch list items to the Contractor and Engineering Services and oversee its completion.
- 5.13. Prepare and submit City of Rapid City project "Construction Project Close-out Checklist" indicating compliance with Standard Specifications and acceptance of the various infrastructure components. The Consultant is responsible for coordinating completion of the checklist items with the Contractor. The checklist is enclosed as Attachment 6 for your information.
- 5.14. Prepare letter of certification of project completion verifying compliance with plans and specifications and start of warranty period.
- 5.15. Prepare a letter to SDDENR notifying them of project completion.
- 5.16. Ensure Contractor's two-year warranty surety is provided to the City of Rapid City either within the performance bond or as a separate bond.
- 5.17. Assist the City in addressing and communicating warranty items with the Contractor that may arise during the City's two year warranty period.

5.18. Shooting Star Trail Well Abandonment

- **On-Site Observation**

Provide periodic on-site construction observation during primary work items of well abandonment.

- **Close-Out Documents**

Provide state of South Dakota well abandonment submittals and project close-out documents to the City.

PROJECT TEAM, MEETINGS AND SUBMITTALS SUMMARY

6.1. Project team members will include:

- The Consultant
- City Engineering Services staff
- Operations Division staff
 - Utility Maintenance Division (Service area and O&M related issues)
 - Wastewater Division

6.2. Meetings requiring the Consultant's participation will likely include, but may not be limited to the following:

- Property owners meeting on Shooting Star Trail
- Private Utility coordination meeting, Task 2
- Prebid Conference, Task 3
- Pre-construction Conference, Task 4
- Construction Progress Meetings, Task 5

6.3. Submittals include:

- Shooting Star Trail: Easement documents and corresponding property owner notes.
- Shooting Star Trail: 100% complete plans, specifications, contract documents, and opinion of probable construction cost Contract Documents Review, Task 2 including meeting minutes
- Shooting Star Trail: Final submittal of plans, specifications, and Engineer's Estimate of probable construction cost, Task 2
- Shooting Star Trail: Prebid conference meeting minutes, Task 3
- Shooting Star Trail: Award recommendation, Task 3
- Pre-Construction conference meeting minutes, Task 4
- Shop Drawing submittal reviews, Task 4
- "As-Built" plans and specifications, Task 4
- Final Operation and Maintenance Manual, Task 4
- Equipment training, Task 4
- Progress meeting minutes, Task 5
- Daily observation reports, Task 5
- Erosion and Sediment Control plan inspection reports, Task 5
- Project completion "Punch List", Task 5
- "Construction Project Close-out Checklist", Task 5
- Letter of certification of project completion, Task 5

PROJECT SCHEDULE

The Consultant shall allow 7 to 10 working days for City review submittal, and the 95% complete plans; specifications; contract documents; and opinion of probable construction cost Contract Documents submittal.

ELK VALE LIFT STATION PROJECT SCHEDULE

	Date:
Begin Construction Services	August 1, 2012
Project 100% Construction Complete	November 1, 2013
Final Pay Estimate and Complete Punch list by Contractor	December 1, 2013
Warranty Inspections	November 2014 and November 2015

SHOOTING STAR WELL ABANDONMENT SCHEDULE

	Date:
Notice to Proceed	September 2012
Field Investigations and Survey Complete	October 17, 2012
Final Design Completion	November 15, 2012
Bidding and Construction Period	December 2012 to March 2013

Exhibit B

ENGINEERING SERVICES SUMMARY OF TASKS

Elk Vale Lift Station Upgrades

AMENDMENT No. 1

Project No. 12-1999 / CIP 50728

and

Shooting Star Trail Well Abandonment

Project No. 12-2049 / CIP 50913

CETEC Engineering Services, Inc.

TASK SCHEDULE

August 7, 2012

TASK 1 - PRELIMINARY DESIGN SERVICES		Task Cost
1.1	Kick-off Conference.	\$ -
1.2	Site Surveys	\$ -
1.3	Preliminary plan and profile/elevation sheets.	\$ -
1.4	Submittal review meeting.	\$ -
1.5	Attend Public Works Meetings Reserved	\$ -
1.6	Conceptual Design Technical Memorandums.	\$ 5,652.00
1.7	Conceptual Drawings (65%)	\$ (5,512.00)
	Travel Expenses	\$ 11.45
	Lab Expenses	\$ 482.00
	Printing Expenses	\$ 528.73
	Geotechnical	\$ -
	Architectural	\$ 1,000.00
	Structural	\$ -
	Mechanical and Electrical	\$ -
Subtotal / Task 1 - Preliminary Design Services		\$ 2,162.18

TASK 2 - FINAL DESIGN SERVICES		Task Cost
2.1	Address City comments.	\$ -
2.2	Complete ROW and easement(s) acquisition.	\$ -
2.3	Removal limits.	\$ -
2.4	Coordinate with geotechnical engineer.	\$ -
2.5	Design features.	\$ -
2.6	Erosion and Sediment Control items.	\$ -
2.7	Staking information.	\$ -
2.8	Project layout to include lot lines.	\$ -
2.9	Traffic control plan (FM).	\$ (1,764.00)
2.9A	Additional Traffic control plan (Utilities).	\$ 618.00
2.10	Existing utilities accurately identified/meeting	\$ -
2.10A	Additional Utility Relocations	\$ 3,640.00
2.10B	Additional Vortex Manhole Design	\$ 430.00
2.10C	Additional Odor Control Oxygen, Bioxide, and Air	\$ 2,584.00
2.11	Project Sequencing	\$ -
2.12	Detailed plans and specifications.	\$ (3,680.00)
2.13	Permits with exhibits.	\$ -
2.14	Identify permits for the Contractor.	\$ -
2.15	Engineer's Estimate (Final).	\$ -
2.16	Certification Statement of Conformance with City Specifications.	\$ -
2.17	Obtain design exception.	\$ -
2.18	(City) submit plans and specifications to DENR.	\$ -
2.19	95% Submittal.	\$ -
2.20	Address 95% submittal comments.	\$ -
2.21	Final Submittal.	\$ -
2.22	Draft Operations and Maintenance Manual.	\$ (2,088.00)

2.23	Shooting Star Well Abandonment	\$	5,950.00
	Travel Expenses	\$	(25.15)
	Printing Expenses	\$	637.21
	Geotechnical	\$	-
	Architectural	\$	1,500.00
	Structural	\$	1,100.00
	Mechanical and Electrical	\$	-
	Subtotal / Task 2 - Final Design Services	\$	8,902.06

TASK 3 - BIDDING SERVICES		Task Cost	
3.1	City Advertising Authority form.	\$	-
3.2	Conduct a Pre-bid Conference.	\$	-
3.3	Prepare and issue addenda/consultation/equipment review	\$	-
3.4	Attend the bid opening.	\$	-
3.5	Attend Public Works Committee meetings.	\$	-
3.6	Review Bidders' Proposals.	\$	-
3.7	Shooting Star Well Abandonment	\$	1,128.00
	Travel Expenses	\$	27.50
	Geotechnical	\$	-
	Architectural	\$	-
	Structural	\$	-
	Mechanical and Electrical	\$	-
	Subtotal / Task 3 - Bidding Services	\$	1,155.50

Replacement for Task 4

TASK 4 - BASIC CONSTRUCTION SERVICES		Task Cost	
4.1	Notice to Proceed.	\$	154.00
4.2	Pre-Construction Conference.	\$	1,384.00
4.3	Written clarification - drawings and specifications.	\$	8,908.00
4.4	Provide recommendations or address changed or unknown conditions.	\$	1,094.00
4.5	Shop drawings, product submittals, test results. (Estimate 130)	\$	21,928.00
4.6	"As-Built" plans and specifications.	\$	4,136.00
4.7	Operations and Maintenance Manual.	\$	1,056.00
4.8	Schedule equipment training with Utility Maintenance personnel.	\$	3,548.50
4.9	Shooting Star Well Abandonment	\$	858.00
	Travel Expenses	\$	110.50
	Printing Expenses	\$	325.00
	Geotechnical	\$	-
	Architectural	\$	2,230.00
	Structural	\$	1,560.00
	Mechanical and Electrical	\$	4,825.00
	Subtotal / Task 4- Basic Construction Services	\$	52,117.00
	Original Task 4 Fee	\$	42,095.00
	Subtotal / Task 4- Basic Construction Services - Fee Increase	\$	10,022.00

Replacement for Task 5

TASK 5 - EXPANDED CONSTRUCTION SERVICES		Task Cost	
5.1	Removal limits.	\$	288.00
5.2	Coordinate P.S.A.'s.	\$	288.00
5.3	Notify affected property owners.	\$	254.00
5.4	Progress meetings (29 @ 2).	\$	19,810.60
5.5	Daily on-site observation (58 weeks).	\$	188,584.40
5.6	Daily Reports.	\$	-
5.7	Stormwater Inspections and Reports.	\$	-
5.8	Soil Compaction Testing (only Quality Assurance Included) (ATS).	\$	-
5.9	Start up Services	\$	14,288.00
5.10	Monthly Pay Request Review.	\$	2,896.40

5.11	Prepare Change Orders.	\$	7,018.40
5.12	Project completion punch list.	\$	1,602.00
5.13	"Construction Project Close-out Checklist".	\$	672.00
5.14	Letter of certification of project completion.	\$	224.00
5.15	Letter to DENR notifying them of project completion.	\$	112.00
5.16	Contractor's 2-year warranty.	\$	4,053.00
5.17	Address and communicate warranty items.	\$	4,053.00
5.18	Shooting Star Well Abandonment	\$	1,164.00
	Travel Expenses	\$	3,588.00
	Geotechnical	\$	10,585.00
	Architectural	\$	2,912.00
	Structural	\$	3,990.00
	Mechanical and Electrical	\$	9,080.00
	Subtotal / Task 5- Expanded Construction Services	\$	275,462.80
	Original Task 5 Fee	\$	199,849.00
	Subtotal / Task 5- Expanded Construction Services - Fee Increase	\$	75,613.80

TOTAL ESTIMATED FEES FOR AMENDMENT NO. 1	\$	97,855.54
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Amendment No. 1 Fee Summary

TASK 1 - PRELIMINARY DESIGN SERVICES	\$	2,162.18
TASK 2 - FINAL DESIGN SERVICES	\$	8,902.06
TASK 3 - BIDDING SERVICES	\$	1,155.50
TASK 4 - BASIC CONSTRUCTION SERVICES	\$	10,022.00
TASK 5 - EXPANDED CONSTRUCTION SERVICES	\$	75,613.80

AMENDMENT NO. 1 FEE TOTAL \$ 97,855.54

EXHIBIT C

Elk Vale Lift Station Upgrades
AMENDMENT No. 1
City of Rapid City
Project No. 11-1999, CIP No. 50728
and
Shooting Star Trail Well Abandonment
Project No. 12-2049, CIP No. 50913

	2012	2013	2014	2015
Ted Schultz, P.E., Project Manager	\$120.00/hr.	\$124.00/hr.	\$128.00/hr.	\$132.00/hr.
Greg Wierenga, P.E., Project Manager	\$118.00/hr.	\$120.00/hr.	\$122.00/hr.	\$125.00/hr.
Rich Marsh, P.E., Project Manager	\$110.00/hr.	\$112.00/hr.	\$115.00/hr.	\$118.00/hr.
Brook Stromer, P.E., Project Manager	\$110.00/hr.	\$112.00/hr.	\$115.00/hr.	\$118.00/hr.
Morgan Gagliano, P.E., Project Engineer	\$84.00/hr.	\$86.00/hr.	\$88.00/hr.	\$92.00/hr.
Mike Riker, Field Manager	\$72.00/hr.	\$74.00/hr.	\$75.00/hr.	\$77.00/hr.
Rick Fox, CADD Manager	\$72.00/hr.	\$74.00/hr.	\$75.00/hr.	\$77.00/hr.
Michael Schille, Senior Engineering Technician	\$72.00/hr.	\$74.00/hr.	\$75.00/hr.	\$77.00/hr.
Jeb Rieb, Senior Project Technician	\$62.00/hr.	\$64.00/hr.	\$66.00/hr.	\$68.00/hr.
Jesse Rieb, Construction Observer / Technician	\$62.00/hr.	\$64.00/hr.	\$66.00/hr.	\$68.00/hr.
Keith Peterson, RLS, Survey Crew Chief	\$68.00/hr.	\$70.00/hr.	\$72.00/hr.	\$74.00/hr.
Jon Collins, Survey Crew Chief / Technician	\$68.00/hr.	\$70.00/hr.	\$72.00/hr.	\$74.00/hr.
Jason Dahlman, Survey Assistant / Technician	\$46.00/hr.	\$46.00/hr.	\$48.00/hr.	\$50.00/hr.
Sean Smith, Survey Assistant / Technician	\$48.00/hr.	\$48.00/hr.	\$48.00/hr.	\$50.00/hr.
Sandy Feickert, Office Administrator	\$44.00/hr.	\$46.00/hr.	\$48.00/hr.	\$50.00/hr.
Michelle Ritchie, Clerical	\$44.00/hr.	\$46.00/hr.	\$48.00/hr.	\$50.00/hr.

Reimbursable Expenses

Project Travel \$0.65/mile
 Blueline Printing..... Actual Cost
 Outside Printing..... Actual Cost
 Telephone, Perdiem Non-Reimbursable


Albertson Engineering Inc.

Principal Engineer:	\$145/hour
Project Engineer II:	\$120/hour
EIT:	\$90/hour
Drafting:	\$60/hour
Clerical:	\$50/hour



Principal	\$190.00/hr.
Office Manager/Project Manager	\$145.00/hr.
Senior Engineer/Project Engineer	\$105.00/hr.
Design Engineer	\$70.00/hr.
Draftsperson	\$55.00/hr.
Clerical	\$45.00/hr.

Reimbursable Expenses

Mileage	\$0.50/mile
Per Diem	\$25.00/day
Lodging	At Cost
Copies	\$0.10/each
Miscellaneous (i.e. long distance phone calls, printing, shipping, photos, etc.)	At Cost

CHAMBERLIN ARCHITECTS
 GRAND JUNCTION, CO • RAPID CITY, SD

Principal Architect (Brad Burns):	\$112/hr.
Intern / Drafter:	\$55/hr



UNIT RATE AND FEE SCHEDULE

item	Unit	Rate
A. <u>Earthwork/Deep Foundation Inspection:</u>		
<u>Laboratory Testing - Soils:</u>		
Proctors *	Each	\$ 125.00
Gradations *	Each	\$ 100.00
Plasticity Index *	Each	\$75.00
Consolidation Swell tests *	Each	\$ 150.00
Moisture Content *	Each	\$15.00
Nuclear Density Tests	Each	\$10.00
Engineering Technician	Hour	\$42.00
Geotechnical Engineer**	Hour	\$85.00

* Plus sample retention and preparation time. Sample retention and prep time charged at Engineering Technician rate.

"Geotechnical Engineer time applied on an hourly basis for **quality** control assurance which includes review of test results and acceptability of tests.

B. <u>Concrete:</u>		
Concrete Cylinders (41 set)	Set	\$45.00
Engineering Technician	Hour	\$ 42.00

Fresh concrete tests include air content, slump, temperature, and casting of cylinders. Price for cylinder set includes mold, curing, breaking, and reporting. Minimum charge of 3 hours of Engineering Technician time for concrete testing. We will strip, cure, break, and record tests for cylinders cast by others. We must charge for stripping time for sets cast by others.

C. <u>Asphalt:</u>		
Marshall *	Each	\$150.00
Rice Determination	Each	\$ 42.00
Gradation*	Each	\$50.00
Extraction-Ignition Oven Method*	Each	\$150.00
Engineering Technician	Hour	\$42.00

* Plus sample retention and preparation time. Sample retention and prep time charged at Engineering Technician rate.

D. Mobilization:

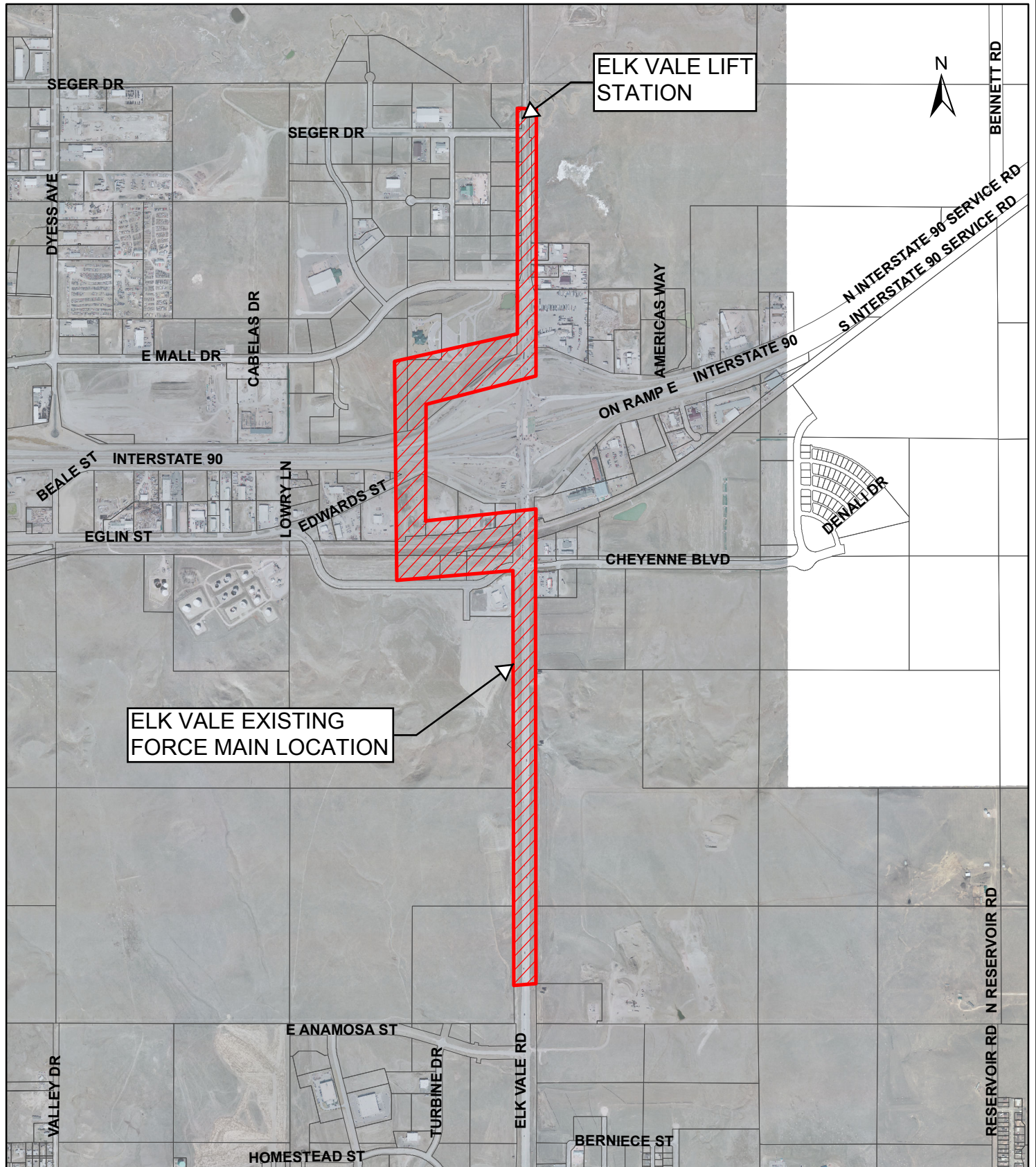
Trip Charge (Round Trip)	Mile	\$0.55
Driving Time	Hour	\$35.00

Subsurface Exploration:

Mobilization (Drill Rig)	Mile	\$3.50
Lab Work (Engineering Tech)	Hour	\$42.00
Drilling Exploration	Hour	\$135.00
Report	Lump Sum	\$400.00

Requested specialty materials testing will be quoted on a per job basis. Testing equipment and supplies may need to be ordered from outside vendors and prices change.

EXHIBIT A



ELK VALE LIFT STATION UPGRADES

Proj. No. 11-1999 CIP No. 50728