



To Solve. To Excel. Together.

PW011105-10

January 6, 2005

Mr. Dave LaFrance  
Engineering Division  
City of Rapid City  
300 Sixth Street  
Rapid City, SD  
57701-2724

RE: Mountain View Road Utility Improvements  
Amendment A  
TSP #030201.P

Dear Mr. LaFrance:

Enclosed is the **Amendment A** fee proposal which will add to the Mt. View Utility Improvement design a new sewer main alignment in Mt. View. This will be done in conjunction with the new waterline alignment and reconstruction of the street by the SDDOT. Our Amendment A services will consist of the following tasks:

*Topographic Survey*

Precision Surveying will provide the additional survey required to pick up the elevations of the existing sewer main that had not been completed by the SDDOT survey. This will primarily include running a level loop to pick up the manhole and cleanout inverts and also the alignment of some existing private sanitary sewer lines that will be tied into the new system and taken over by the City. Precision surveying will coordinate with the City to provide water and sewer information and will provide their own traffic control to gather this information.

Traffic control for the survey work will be provided by the RHS.

*Additional changes to the 95% & Final Design*

During the preliminary design phase it was decided that a 24" waterline will not be placed in Mt. View, but new 8" and 12" water lines will be constructed as per previous studies. It was, however, decided to realign the existing sanitary sewer main to the west side of Mt. View to allow a better alignment of the system and to replace existing brick manholes and vitrified clay pipe. This will also allow better phasing of the project. The initial contract had only proposed replacing the brick manholes.

The basic elements of the additional changes to the Design will consist of the following:

1. Add topo to the base map of the sanitary sewer system that weren't included in the SDDOT survey.
2. Add topo to the base map of the water system to pick up air relief manhole information that weren't included in the SDDOT survey.

3. Final waterline alignment to take into account changes in the sanitary sewer main and waterline services
4. Final plan and profiles of new sewer main and service alignments
5. Final phasing plans to coordinate both the sanitary sewer main and waterline construction.
6. Coordination of geotechnical services to provide new resistivity information of the soil along Mt. View to determine the corrosion protection and recommendations that are required.
7. Provide unit price for sanitary sewer system additions to the contract
8. Provide general sequence of construction requirements for the sanitary sewer main improvements in order to assist bidders to prepare their bids and to coordinate utilities construction to minimize interruption of service, etc. This construction sequence shall be coordinated with the SDDOT plans.
9. Provide separate, special detail drawings of the sanitary sewer system at appropriate scale showing additional information necessary to construct the project but not shown adequately elsewhere in the drawings.
10. The SDDOT shall provide the Traffic Control Plans identifying detour routes and signage for various stages of the utility construction. TSP shall coordinate with the SDDOT plans for construction of water and sewer improvements.
11. Prepare opinion of probable construction cost at each phase (engineer's estimate) for the project based upon the City of Rapid City Engineer's Estimating Guide format and average bid price and engineering judgment.
12. Additional coordination time with the involved entities to implement these changes

For the services described, TSP will increase the contract by an **Amendment A** amount of **\$20,535.00**. The maximum hourly not to exceed contract amount including Amendment A will be increased to **\$41,285.00**, including expenses and subconsultants. The total cost will not be exceeded unless there is a change in the scope of work that is mutually agreed upon by both parties.

Appropriate taxes are not included and will be billed in addition to the fee identified above.

If the following proposal meets your satisfaction, please sign the Standard form of Agreement and return a copy for our records.

Very truly yours,

TSP Three, Inc.



Robert Morcom, P.E.  
Principal

Attachments

DATE:12/30/2004  
 RE: Mt. View Water System / Sanitary Sewer Improvements

**MANHOUR / FEE PROPOSAL**  
**Amendment A**

PREPARED BY: TSP THREE, INC.  
 TSP NO. #030201.P

PREPARED FOR: City of Rapid City Engineering Division

DESCRIPTION	TSP				
	PM/PE1 \$120.00	PE2 \$90.00	EIT \$55.00	CADD \$50.00	Clerical \$35.00
<b>A. Field Work</b>					
Coordination Meetings	4	2			
Review new information on additional survey	2	4			
Update Base map preparation in conjunction w/ SDDOT plan		2		8	
<b>Subtotal</b>	6	8	0	8	0
					22
	\$720.00	\$720.00	\$0.00	\$400.00	\$0.00
<b>B. Design - Additional and Revisions</b>					
Coordination/Review Meetings w/ SDDOT/ City of Rapid Waterline	4	4			
Plan / Profile Sheets	2	4		4	
Removal Plan		2		4	
Plan Notes		2		2	
Sewerline					
Plan/Profile	4	16		16	
Removal Plan	2	4		8	
Detailed Design					
General Notes		4			
Tables of Bid Items		4			
Construction Limits		1		2	
Easement Areas					
Construction Phasing	4	8		4	
Details		4		8	
Bid Items		2			
Specifications/Bid Documents/Cost Est.	1	2			
<b>Sub-Total hours</b>	17	57	0	48	0
<b>Subtotal</b>					122
	\$2,040.00	\$5,130.00	\$0.00	\$2,400.00	\$0.00
<b>D. FINAL DESIGN (100%)</b>					
Meetings	2	2			
General Notes		2			
Tables of quantities		2			
Removal Plan		1		2	
Plan & Profile	1	4		8	
Construction Phasing		2			
Specifications/Bid Documents	1	2			
<b>Sub-Total hours</b>	4	15	0	10	0

	<b>Subtotal</b>	\$480.00	\$1,350.00	\$0.00	\$500.00	29 \$0.00
<b>E. Bidding</b>						
Pre-bid Meeting						
Misc. Changes						
		0	0	0	0	0
	<b>Subtotal</b>	\$0.00	\$0.00	\$0.00	\$0.00	0 \$0.00
<b>F. Construction Administration</b>						
Pre-Construction Meeting						
Misc. Coordination Meetings						
Submittal Review						
		0	0	0	0	0
	<b>Subtotal</b>	\$0.00	\$0.00	\$0.00	\$0.00	0 \$0.00

**TOTAL FEE - TSP**

<b>A. Field Work</b>	\$1,840.00
<b>B. Design Additions or Revisions</b>	\$9,570.00
<b>D. 100% Final Design</b>	\$2,330.00
<b>E. Bidding</b>	\$0.00
<b>F. Construction Administration</b>	\$0.00
	<b>\$13,740.00</b>

**Total FEE - AET(Geotechnical Investigations)** \$400.00

**TSP EXPENSES**

	Amount	Rate	Total
Printing(LS)	1	\$30.00	\$30.00
Plotting(LS)	1	\$30.00	\$30.00
Copies(LS) *	1	\$25.00	\$25.00
Photography(LS)	1	\$10.00	\$10.00
			\$95.00

**LABOR AND EXPENSE SUMMARY**

TSP	\$13,740.00
TSP Expenses	\$95.00
Precision Surveying	\$4,800.00
AET(Geotechnical)	\$400.00
RHS-Traffic Control	\$1,500.00
<b>Total</b>	<b>\$20,535.00</b>

TSP III  
Attn: Robert Morcom  
600 Kansas Street  
Rapid City, SD 57701

Re: Proposal for Surveying Services  
Mountain View Road  
Utility Verification Rapid City, SD

Dear Bob,

Thank you for giving us the opportunity to submit you with the following bid. This proposal is for Survey work to be done along Mountain View Road in Rapid City, to verify Elevations of existing features as shown on the plans provided by TSP III. Along with our conversations and e-mail sent on December 29, 2004 to David La France listing the items that will require additional information, we have come up with the following:

### **SCOPE OF WORK**

Tie in to existing control as shown by the plans provided. We will run a level loop through the length of the project to verify the seven (7) Control points provided and establish intermediate control along the way. If the control does not check with our closed level loop we will establish new elevations and advise TSP III.

Once the level loop has been run and accepted we will establish vertical checks of the following locations and features;

#### **Mt. View Road**

1. Sta. 5+50+/- Lt. - Mt View / Jackson Blvd Intersection - Verify waterline alignments in this area and assist surveyors in identifying the elevations and box size of the air relief manhole and existing manhole near island at Sta. 6+50 Rt. The air relief manhole is to be relocated and the other manhole will have one line abandoned with the construction of the new line.
2. Sta. 11+30 Lt. - Verify manhole inverts and service line alignments to Clarkson facility.
3. Sta. 11+00 Rt. - Verify and identify manhole inverts and pipe routing
4. Sta. 17+00 - Verify manhole inverts - In & Out and alignments
5. Sta. 17+ 50 Rt. - Verify manhole inverts - In & Out and alignment on manhole south of Subway
6. Sta. 23+40+/- Rt. - Verify manhole inverts - In & Out and alignment on manhole - Please note that the SDDOT survey indicates this manhole is an abandoned storm sewer manhole that has been silted in. Information from the city indicates this is a private sanitary sewer line that will need to be brought into the system

7. Sta. 24+30 +/- Rt. - Verify curb stop and service line alignment at this location. This may not be identified properly and might be a cleanout that is tied to the private sewer line near 23+40.
8. Sta. 26+60 +/- Lt. - Verify inverts of manhole - In & Out
9. Sta. 29+60 +/- Lt. - Verify inverts of manhole - In & Out

West Main

10. Sta. 0+00 to 2+00 Rt. - Verify inverts and alignments of Cleanouts, Manholes in area south of West Main.
11. Sta. 0+40 +/- Lt. - Verify manhole inverts and alignment.
12. Sta. 4+60 Lt. - Verify manhole and inverts and alignment in parking lot. It was indicated this is a storm sewer manhole, but there is indication that this may be a sanitary sewer manhole
13. Sta. 6+--- Lt. - Verify manhole inverts and alignment.

Rim Elevations will be determined by use of a level from our control level loop. Inverts will be established by use of a rod lowered to the invert of the pipe and measured to the Rim on that side of the manhole. Any Horizontal locations will be located by use of coordinates to Manholes, or Control if available and Shot in with a total station. Coordinates will then be provided to TSP III. All locations of utilities will be based from locates provided by the City of Rapid City.

Any items not mentioned above shall be billed out at an hourly rate. Traffic Control will be hired out as needed and is not covered in this proposal due to the uncertainty of what will be needed.

Based on factors such as weather, traffic issues, ability to recover control and locate the items, we are submitting this proposal on a not to exceed basis, not including traffic control.

We propose to provide you with the above listed services, on a not to exceed basis of:

**\$4800.00**

Sincerely,

Rick Bush , R.L.S. #6699