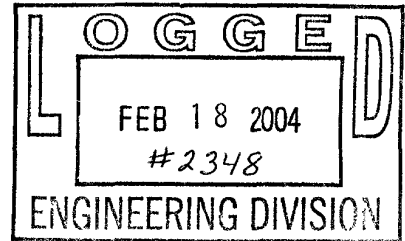




cetec@rushmore.com

February 18, 2004

Mr. Dan Coon, PE, Engineering Division Manager
City of Rapid City Public Works Department
300 6th Street
Rapid City, SD 57701



Re: Final Cost Share Agreement and Cost Estimate for
School Drive Meter Pit Project
Rapid Valley Sanitary District (RVSD)

Dear Mr. Coon:

On behalf of Rapid Valley Sanitary District I am forwarding the Final Cost Share Agreement and Cost Estimate for the School Drive Meter Pit Project. RVSD will advertise and publicly bid the project following South Dakota competitive bid statutes on March 8, 2004. RVSD formally requests participation of 50% for actual construction costs not to exceed \$45,000 as described in the agreement. Some of the reasons for the project and financial request are listed below:

- 1. The meter pit is owned by the City and is in disrepair. RVSD is requesting 50% construction funding to repair and upgrade City property. The project will benefit RVSD and the City and the project is a cooperative effort.
2. The meter pit ownership will be transferred to RVSD upon completion. The result of the project will allow the City to avoid any future ongoing maintenance costs, monthly electric costs, and associated costs of owning and upgrading the facility.
3. The new meter accuracy will be 99.75% to 100.25% vs. current meter accuracy of 98.5% to 101.5%. The increased accuracy will improve flow measurement accuracy and billing for water sold. The current accuracy is likely lower than listed due to improper meter installation.
4. The current piping arrangement is likely exceeding the 1.5% error and could result in reduced water billing. The existing meters are not installed with the proper upstream and downstream pipe distance. The current piping provides 2 pipe diameters upstream and 4 pipe diameters downstream vs. the manufacturer recommended 10 and 5 diameters.
5. The piping condition is in extremely poor condition as the cast iron fittings and bolts are corroded and don't allow simple repairs when necessary. The piping and equipment for this meter pit was constructed in 1975 and has met its useful life of 30 years.
6. The meter pit has been under water in the past and the heating and other electrical equipment does not function.

7. The ladder and entrance to the meter pit does not meet OSHA standards and is a safety hazard.
8. The environment inside the meter pit is not controlled and causes corrosion to equipment.
9. RVSD is providing professional engineering and legal services at no cost to the City. Engineering services include; mechanical, civil, and electrical services for design, bidding, and construction inspection and observation.
10. The electronic solenoid control valves will allow the meter pit to function and provide supply to RVSD in a modulating fashion. The existing manual operation of valving causes high surges and fluctuation rates in water usage. This typical surge comes in the evening as the valve is opened manually. The new arrangement will allow flow transfer throughout the day and could result in lower flow fluctuations.

This project is important to the customers of the District and the RVSD Board of Trustees and they request City participation of 50% for the actual construction costs not to exceed \$45,000. The project schedule requires bidding on March 8, 2004 with final project completion scheduled for June 18, 2004. Please review the enclosures and present the request to the City of Rapid City Public Works Committee for consideration. Contact me with any questions.

Sincerely,  
CETEC Engineering Services, Inc.



Ted Schultz, P.E.

cc: RVSD, Jim Jester, General Manager

# School Drive Meter Pit Cost Estimate

Schedule No. 1, Rapid Valley Sanitary District

2/18/04

DESCRIPTION	QUANTITY	UNIT	MATL COST	LABOR/OH COST	EXTENDED COST
Mobilization	1	LS	\$500	\$4,000	\$4,500
Incidental Work	1	LS	\$1,000	\$1,000	\$2,000
12"x8"x8" DI Tee	1	Each	\$575	\$300	\$875
8" Dual Solenoid Control Valve and Control Panel	2	Each	\$7,200	\$2,750	\$19,900
8" Gate Valve w/Handwheel	4	Each	\$600	\$350	\$3,800
8" Mag Meter and Remote Meter Display Unit	2	Each	\$4,000	\$2,250	\$12,500
Pressure Gauges, Ball Valves & Acc.	5	Each	\$225	\$150	\$1,875
Hose Bid and Acc.	3	Each	\$50	\$50	\$300
Pipe Supports	5	Each	\$300	\$200	\$2,500
8" DI Pipe	20	LF	\$45	\$20	\$1,300
8" DI Long Radius Bend	2	Each	\$200	\$200	\$800
8" Flange Coupling Adapter	2	Each	\$300	\$175	\$950
12" Flange Adapter	1	Each	\$600	\$200	\$800
8" Flange Adapter	6	Each	\$100	\$100	\$1,200
Aluminum Access Ladder	1	Each	\$600	\$300	\$900
Aluminum Access Hatch (30"x54")	1	Each	\$700	\$300	\$1,000
Air Release Valve and Accessories	1	Each	\$450	\$200	\$650
Electrical	1	LS	\$3,000	\$6,000	\$9,000
Dehumidifier	1	LS	\$600	\$350	\$950
3" Return Air Vents	2	Each	\$400	\$300	\$1,400
Sump Pump and PVC Piping	1	LS	\$900	\$400	\$1,300
Finish Paint for Piping	1	LS	\$300	\$500	\$800
Paint for Floor and Walls	1	LS	\$500	\$1,500	\$2,000
Remove Electrical and Accessories	1	LS	\$50	\$400	\$450
Remove Existing Piping and Concrete Supports	1	LS	\$200	\$1,600	\$1,800
Grout and Slope Floor	1	LS	\$500	\$750	\$1,250
Ceiling Improvements	1	LS	\$1,200	\$1,750	\$2,950
Steel Beam	1	LS	\$500	\$700	\$1,200
Concrete Infill for Existing Hatch & 10" Pipe	1	LS	\$500	\$500	\$1,000
8"Connection Into Existing Structure	2	Each	\$300	\$800	\$2,200
Subtotal					\$82,150
10% Contingency					\$8,215
<b>OPINION OF PROBABLE COST</b>					<b>\$90,365</b>

**COST SHARE AGREEMENT BETWEEN  
RAPID VALLEY SANITARY DISTRICT  
AND THE CITY OF RAPID CITY  
FOR IMPROVEMENTS TO THE SCHOOL DRIVE METER PIT**

This agreement made as of this \_\_\_\_\_ day of \_\_\_\_\_, 2004 by and between the Rapid Valley Sanitary District, a Sanitary District organized under the laws of the State of South Dakota, hereinafter referred to as "District" and the City of Rapid City, a municipal corporation, organized under the laws of the State of South Dakota, hereinafter referred to as "City", and

WHEREAS the parties recognize that the District is a sanitary district organized under the provisions of SDCL Chapter 34A-5; and

WHEREAS the parties further recognize that the City is a municipal corporation organized under the provisions of SDCL Chapter 9; and

WHEREAS the District purchases water from the City and much of said water is supplied by the City through a meter pit located on School Drive, Rapid City, Pennington County, South Dakota.

WHEREAS the property on which the School Drive meter pit is located is more accurately described as follows:

Lot C, Johnson School Subdivision of the  
NE 1/4 of the NW 1/4, Section 9, T1N,  
R8E, BHM, Pennington County, South Dakota; and

WHEREAS the District receives the benefit of the water that flows through said meter pit and the City benefits from the revenues received from the purchase of the water supplied through the meter pit; and

WHEREAS the District and the City believe it is in the best interests of both parties to cooperate and share equally in the construction costs relating to the necessary modifications and improvements to said meter pit.

**THEREFORE, THE PARTIES AGREE AS FOLLOWS:**

1. The project will be advertised and bid publicly by the District per South Dakota statute. The project will be bid with two separate schedules and the District reserves the right to award the meter pit contract to the lowest bidder or to the lowest combined bidder of both schedules.

2. City participation will be at fifty percent (50%) of the actual low bid received not to exceed forty-five thousand dollars (\$45,000.00). In the event a combination bid is accepted and the low bid for the meter pit is not accepted the District is responsible for the amount over fifty percent (50%) of the low bid.
3. Upon completion of the modifications and improvements, the District shall assume the ownership, operation and maintenance of the meter pit, including all associated utility expenses. Ownership transfer and City payment will be made within thirty (30) days after final inspection and certification is made.
4. Above-ground read-out meters shall be installed that will include the ability of being monitored and read remotely. The City shall have legal access to the meter pit and secure panel in order to read the remote meters and upon request, the City shall also be allowed to enter said meter pit in order to verify the accuracy of the remote read-outs compared to the actual in-ground meter readings.
5. The City shall have the absolute right to inspect the condition of said meter pit components, but the City shall not perform any adjustments or maintenance without the prior approval of the District.
6. The District shall be responsible for the necessary periodic calibrations of the flow meters. The flow meters shall be calibrated at a frequency in accordance with the manufacturer's recommendations or on an annual basis, whichever is less.

IN WITNESS WHEREOF the parties hereto have executed this Agreement consisting of two (2) pages, on the date first above written.

**RAPID VALLEY SANITARY DISTRICT**

**CITY OF RAPID CITY**

\_\_\_\_\_  
 Clyde Elwood  
 President, Board of Trustees

\_\_\_\_\_  
 Jim Shaw  
 Mayor of Rapid City

ATTEST:

ATTEST:

\_\_\_\_\_  
 (SEAL)

\_\_\_\_\_  
 Finance Officer  
 (SEAL)