

CITY OF MITCHELLVILLE, IOWA

CAPITAL IMPROVEMENT PROJECT

DEPARTMENT: Streets

DATE: 12/19/11

PROJECT: Street Inspection & Evaluation

RANKING: A

A: Description of Project:

It is proposed that the City contract with an transportation engineer to inspect and evaluate the City's street system and to recommend improvements to the City's streets.

B: Cost Estimate:

Item	Quantity	Unit Price	Total
Inspection & Evaluation of Streets			\$10,000

C. Justification for Project:

The City currently has over six miles of street surfaces that basically have a "chip & seal" surface with no curb and gutter. The City needs an evaluation of these streets to determine the feasibility of permanent improvements, such as curb and gutter, storm sewers, and concrete or asphalt surfaces. The street evaluations will provide the City with the information needed to make informed decisions on future street improvement projects.

D. Projected Costs & Recommended Financing:

Project/Cost Elements	Source of Funds	Estimated Expenditures by Fiscal Year					Total
		FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 16-17	
Engineer	6	\$10,000					\$10,000
Land/R.O.W.							
Construction							
Equipment							
Contingency							
Project Total		\$10,000					\$10,000

Source of Funds

- | | | |
|-------------------------|---------------------------|---------------------|
| 1) General Tax Revenues | 6) Road Use Tax Funds | 11) State Loan |
| 2) G.O. Bonds | 7) Local Option Sales Tax | 12) Federal Grants |
| 3) Water – Bonds/Cash | 8) Donations/Fund Raising | 13) Federal Loan |
| 4) Sewer – Bonds/Cash | 9) Short Term Loan | 14) Special Assess. |
| 5) TIF Fund | 10) State Grant | 15) Special Funds |

E. Vicinity Map/Picture



CITY OF MITCHELLVILLE, IOWA

CAPITAL IMPROVEMENT PROJECT

DEPARTMENT: Streets

DATE: 12/19/11

PROJECT: Annual Seal Coating Program

RANKING: B

A: Description of Project:

It is the City's intent to have a five year rotation on the seal coating of streets. It is also the City's goal to set aside money from the Road Use Tax Fund for street reconstruction projects.

B: Cost Estimate:

Item	Quantity	Unit Price	Total
Seal Coat – Five year rotation		\$55,000/Year	\$275,000
Street Reconstruction – Five years		\$40,000/Year	<u>\$190,000</u>
			\$465,000

C. Justification for Project:

The seal coating of the City streets has much the same effect as painting a house. It helps prevent the penetration of moisture into the base which causes the potholes from the freezing and thawing cycles. It also improves the surfacing for better drainability.

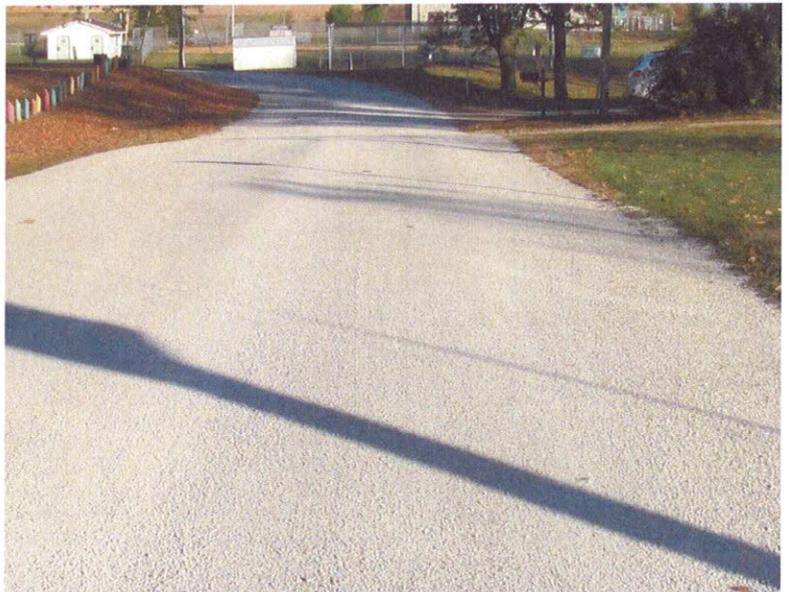
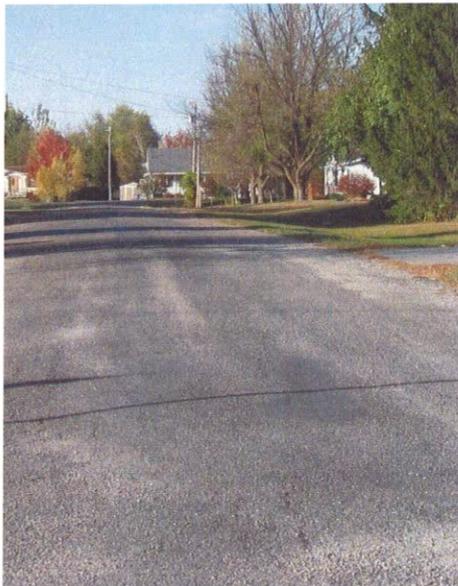
D. Projected Costs & Recommended Financing:

Project/Cost Elements	Source of Funds	Estimated Expenditures by Fiscal Year					Total
		FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 16-17	
Engineer							
Land/R.O.W.							
Construction Repairs	6	\$30,000	\$40,000	\$40,000	\$40,000	\$40,000	\$190,000
Equipment							
Seal Coat	6	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$275,000
Project Total		\$85,000	\$95,000	\$95,000	\$95,000	\$95,000	\$465,000

Source of Funds

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|-------------------------|---------------------------|---------------------|
| 1) General Tax Revenues | 6) Road Use Tax Funds | 11) State Loan |
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E. Vicinity Map/Picture



CITY OF MITCHELLVILLE, IOWA
CAPITAL IMPROVEMENT PROJECT

DEPARTMENT: Storm Sewer

DATE: 12/19/11

PROJECT: NW Area 4 Storm Sewer Drainage Project

RANKING: A/B

A: Description of Project:

The project consists of the installation of 3,920 feet of storm sewer pipe to provide drainage for an area bounded by Fifth Street NW, Third Street NW, Cotton Avenue, and Elm Street.

B: Cost Estimate:

Item	Quantity	Unit Price	Total
Total Construction Cost			\$382,380
Contingencies			\$38,238
Engineering, Legal, & Admin			<u>\$75,711</u>
			\$496,329

C. Justification for Project:

The City has experienced drainage and flooding problems during significant rainfalls. The installation of storm sewers will accomplish the following:

1. Decrease the saturation of soil conditions and localized ponding.
2. Decrease infiltration and/or flow into the sanitary sewer system.
3. Decrease damage to local property, such as basement flooding due to groundwater conditions, surface water flooding, or sewer backups.
4. Decrease street or intersection flooding, which can result in less cleaning and street maintenance costs.
5. Decrease in insects and mosquito population.
6. Reduce potential health and safety hazards due to standing water.

D. Projected Costs & Recommended Financing:

Project/Cost Elements	Source of Funds	Estimated Expenditures by Fiscal Year					
		FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 16-17	Total
Engineer	2				\$75,711	\$75,711	
Land/R.O.W.							
Construction	2				\$382,380	\$382,380	
Equipment							
Contingency	2				\$38,238	\$38,238	
Project Total					\$496,329	\$496,329	

Source of Funds

- | | | |
|-------------------------|---------------------------|---------------------|
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E. Vicinity Map/Picture

CITY OF MITCHELLVILLE, IOWA

CAPITAL IMPROVEMENT PROJECT

DEPARTMENT: Wastewater & Sanitary Sewer Utility

DATE: 12/19/11

PROJECT: Wastewater Treatment Facilities Study

RANKING: A/B

A: Description of Project:

The City proposes to contract with an engineer to conduct a comprehensive review and analysis of the wastewater treatment plant to determine the plant's capacity to meet both the short term and long term needs of the City.

B: Cost Estimate:

Item	Quantity	Unit Price	Total
Wastewater Facilities Study (Estimated range \$25,000 to \$35,000)			\$30,000

C. Justification for Project:

Since the Iowa Correctional Facility for Women will be doubling the number of offenders at prison and since the City's long range plan includes the development of an industrial/commercial park south of Interstate 80, the City needs to review and analyze the capacity of the wastewater treatment plant to treat the wastewater from throughout the City. The study will examine current and projected wastewater volumes and levels of wastewater entering the plant. The study will determine the need for an expansion of the plant, the recommended treatment process, timing of the improvements, and cost estimates. The wastewater facilities study is needed to make certain that the wastewater plant stays within the required effluent limits set forth by the Iowa Department of Natural Resources and the NPDES permit.

D. Projected Costs & Recommended Financing:

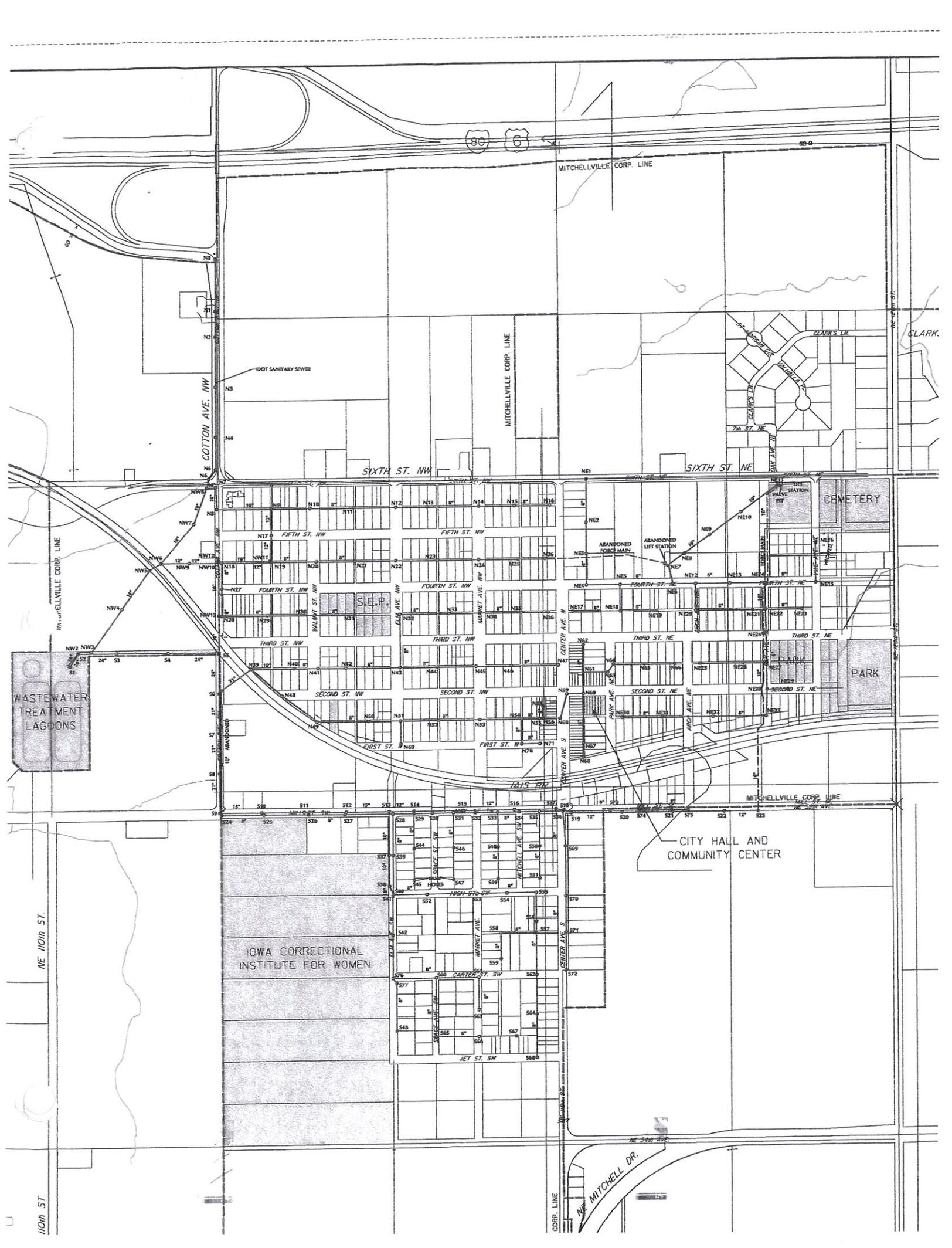
Project/Cost Elements	Source of Funds	Estimated Expenditures by Fiscal Year					
		FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 16-17	Total
Engineer	4	\$30,000					\$30,000
Land/R.O.W.							
Construction							
Equipment							
Contingency							
Project Total		\$30,000					\$30,000

Source of Funds

- | | | |
|-------------------------|---------------------------|---------------------|
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E. Vicinity Map/Picture





80 6

MITCHELLVILLE CORP. LINE

N 1/2 COTTON AVE. NW

1000 SANITARY SEWER

MITCHELLVILLE CORP. LINE

SIXTH ST. NW

SIXTH ST. NE

CEMETERY

WASTEWATER TREATMENT LAGOONS

PARK

CITY HALL AND COMMUNITY CENTER

IOWA CORRECTIONAL INSTITUTE FOR WOMEN

NE MITCHELL DR.

NE 110th ST.

110th ST.

CDRP. LINE

CITY OF MITCHELLVILLE, IOWA
CAPITAL IMPROVEMENT PROJECT

DEPARTMENT: Water Plant

DATE: 12/19/11

PROJECT: Water Softener Project

RANKING: A

A: Description of Project:

The project involves the purchase and installation of equipment at the City's Water Plant for the purpose of improving the quality of the City's water supply.

B: Cost Estimate:

Item	Quantity	Unit Price	Total
Water Softening Equipment (Preliminary Estimate)			\$800,000

C. Justification for Project:

The City constructed a new water treatment plant in 2005 and considered the installation of water softening equipment at that time, but deleted this portion of the project as a cost cutting measure. Since the water plant was completed, the City has received complaints from residents regarding the hardness of the water and the impact that it can have on water pipes and appliances. The installation of water softening equipment will reduce the hardness of the water, improve the quality of the water, and lessen the negative impact of hard water on pipes and appliances.

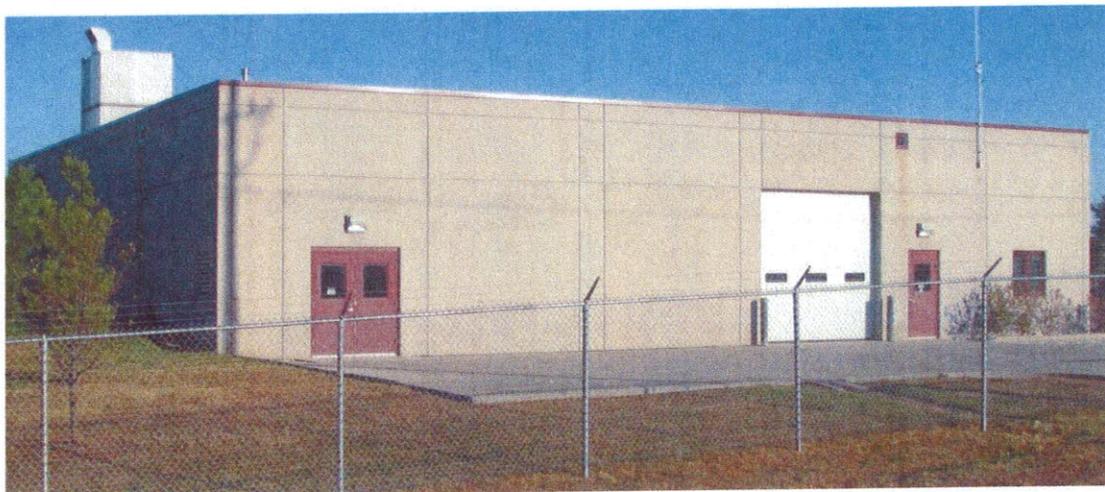
D. Projected Costs & Recommended Financing:

Project/Cost Elements	Source of Funds	Estimated Expenditures by Fiscal Year				
		FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 16-17
Engineer						
Land/R.O.W.						
Construction						
Equipment	3		\$800,000			\$800,000
Contingency						
Project Total			\$800,000			\$800,000

Source of Funds

- | | | |
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E. Vicinity Map/Picture



CITY OF MITCHELLVILLE, IOWA

CAPITAL IMPROVEMENT PROJECT

DEPARTMENT: Water System

DATE: 12/19/11

PROJECT: Water Main Replacement Project

RANKING: B

A: Description of Project:

Replacement of 1,280 feet of two inch water main on 1st Street from Elm Street to Center Street with a new 8" water main.

B: Cost Estimate:

Item	Quantity	Unit Price	Total
8" Water Main	1,280	\$30	\$38,400
Service Connections	28	\$1,000	\$28,000
8" Hydrants	3	\$3,000	\$9,000
8" Valves	3	\$1,000	\$3,000
Engineering			\$11,760
Contingency			<u>\$12,320</u>
TOTAL			\$102,480

C. Justification for Project:

The DNR's minimum size for new water mains is six inches. The two inch water main on 1st Street is far less than the DNR's minimum standard for water mains that are expected to provide water for fire suppression purposes. The replacement of this two inch water main will improve the water pressure to the households in the area along 1st Street and will also improve the Fire Department's ability to suppress fires in the area.

D. Projected Costs & Recommended Financing:

Project/Cost Elements	Source of Funds	Estimated Expenditures by Fiscal Year					
		FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 16-17	Total
Engineer	3				\$11,600		\$11,760
Land/R.O.W.	3				\$76,400		\$78,400
Construction							
Equipment					\$14,080		\$12,320
Contingency	3						
Project Total					\$102,240		\$102,480

Source of Funds

- | | | |
|-------------------------|---------------------------|---------------------|
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