

**Community Investments Program
FY 2010 through FY 2014**

**Bikeway Network Plan
CIP #OS8301**

Project Description:

Initially this project was to identify the existing bike routes within the City and to suggest proposed bike routes that could provide loops around and through the City. Two types of routes were identified: (1) The initial route will be on existing bike routes or existing streets. Signage or striping may be required. (2) The final system will be a network of routes within the City and off-street routes around the City. As future street improvements are designed, requirements for bike accessibility will be reviewed.

The initial stage will be to install the necessary striping and signage to complete the on-street routes as approved. Future work will include the detailed design, right of way acquisition, and construction of the off-street routes. This phase will be a multi-year program according to the availability of funding.

Project Justification:

These bike routes shall have a functional layout as well as a recreational plan. The functional plan shall provide safe and accessible routes to many of the shopping areas, parks and schools. The recreational plan shall provide routes which are mainly off-road routes that form a loop through and around the City mainly for recreational purposes. This route shall connect to and be a part of the existing and proposed on-street routes.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	15,000
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	15,000
Prior Years Costs	10,932
Later Years Costs	3,013,541
Total Cost	\$3,039,473

Fund Source:

Local Improvement Fund:

Fund Balance - General Revenue	\$3,024,473
State Aid, Grant, Motor Fuel Tax	<u>\$15,000</u>

Total \$3,039,473

Operating Budget Impact:

Once this project is completed, there will be cost necessary to maintain the surface of the paths. This cost will be in the distant future and not practical to estimate at this time.

**Community Investments Program
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**Central Downtown Bike/Pedestrian Way
CIP #OS0901**

Project Description:

Develop bike/pedestrian way Central Downtown between University Avenue and Washington Street with enhancements generally paralleling the railroad ROW from SIU to Chestnut Street.

Project Justification:

Connect campus, downtown, historic district and northeast Carbondale to encourage bike and pedestrian activity, downtown development and neighborhood involvement.

Project is also intended to enhance the overall aesthetic of the core area of the community and serve as a backbone to future bike/pedestrian expansion.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	50,000
Estimated FY 2012	1,350,000
Estimated FY 2013	1,200,000
Estimated FY 2014	0
Total Five-Year Costs	2,600,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$2,600,000

Fund Source:

Local Improvement Fund:

State Aid, Grant, Motor Fuel Tax	<u>\$2,600,000</u>
Total	\$2,600,000

Operating Budget Impact:

There will be a cost to maintain the surface of the paths, but it is expected to be minimal and in the distant future before it will be incurred.

**East Side Sidewalks/Bikeways
CIP #OS0902**

Project Description:

Create a shared sidewalk/bikepath on Lewis Lane from Grand Avenue to Walnut Street, Grand Avenue from Lewis Lane to Giant City Road, Giant City Road from Walnut to Grand Avenue and Walnut Street East to Kaemper Avenue. Also widening the Sidewalk on Walnut Street from Lewis Lane to Giant City Road from a regular four foot sidewalk to a eight foot shared sidewalk/bikepath.

Project Justification:

The addition of Carbondale Community High School, Carbondale Middle School and the Superblock to this area over the last few years has increased the need for adequate bike and pedestrian routes to provide safety for children and the general public.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	20,000
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	20,000
Prior Years Costs	0
Later Years Costs	989,198
Total Cost	\$1,009,198

Fund Source:

Local Improvement Fund:

Fund Balance, General Revenue	\$989,198
State Aid, Grant, Motor Fuel Tax	<u>\$20,000</u>
Total	\$1,009,198

Operating Budget Impact:

The additional width and lineal feet of sidewalk will require additional maintenance. This project will not take place until the distant future.

**Community Investments Program
FY 2010 through FY 2014**

**Open Space Development
CIP #OS1002**

Project Description:

Designate and develop open space improvements within the City. Possible projects could include Helen Westburg Park, extend Greenway/Bikeway along Piles Fork Creek, comprehensive bike route plan, Central Downtown Bike/Pedestrian Greenway Park.

Project Justification:

Open space will be developed as a commitment from the half-cent Home Rule Sales Tax increase.

Project Capital Costs:

Budgeted FY 2010	100,000
Estimated FY 2011	100,000
Estimated FY 2012	100,000
Estimated FY 2013	100,000
Estimated FY 2014	100,000
Total Five-Year Costs	500,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$500,000

Fund Source:

Local Improvement Fund:

Transfers from General Fund \$500,000

Total \$500,000

Operating Budget Impact:

This project is an open commitment that includes green space development. The actual development plans will transpire as an on-going planning process. Any possible budget impacts will be determined as the actual plans are derived.

**Community Investments Program
FY 2010 through FY 2014**

**Fire Station Relocation
CIP #PB0001**

Project Description:

To complete a building plan and site layout, develop a design, produce construction plans and specifications, obtain all necessary construction permits, and provide all necessary construction management assistance for a new public fire station.

Preliminary space requirements include 4,000 square feet of enclosed building to provide living space and office for fire fighters; a four bay 3,840 square foot garage for fire vehicles and 3,000 square feet of storage. The facilities shall include a hose drying tower, room for training, standby power and associated parking.

Project Justification:

The existing west side fire station, constructed in 1960 is currently operating beyond its designed capacity for both personnel and equipment. In recent years the unreinforced masonry facility has begun to show signs of structural and mechanical deterioration.

An engineering study conducted in the fall of 2000 revealed the existing facility is especially vulnerable to seismic activity, and apparatus would most likely become trapped in the event of an earthquake.

Illinois Department of Transportation development of the East-West couple has caused increased traffic at the Walnut Street/Oakland Avenue intersection, and made apparatus egress difficult.

Improved access to travel routes will provide for safer and more efficient emergency response to residential areas on the west side of town.

Project Capital Costs:

Budgeted FY 2010	1,825,000
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	1,825,000
Prior Years Costs	50,000
Later Years Costs	0
Total Cost	\$1,875,000

Fund Source:

Local Improvement Fund:

Transfers from the General Fund	\$50,000
General Obligation Bonds	<u>\$1,825,000</u>
Total	\$1,875,000

Operating Budget Impact:

The new building should save approximately 10% to 12% on annual utility costs which amounts to \$2,000 to \$2,500 per year. Also, in the first 5 years, the costs for repairs to the heating and cooling systems and the overhead doors should be reduced saving approximately \$2,300 per year.

**Community Investments Program
FY 2010 through FY 2014**

**Police Station
CIP #PB0201**

Project Description:

This project includes the construction of a new police station on the old Lincoln Middle School property located on South Washington Street. The first phase of the project was completed in FY 2007 which included demolition of the existing structure.

The next phase of the project is to complete a building plan and site layout, develop a design, produce construction plans and specifications, obtain all necessary construction permits, and provide all necessary construction management assistance for a new public safety center.

The goal of the project is to provide an engaging well functioning facility which provides a classic architectural/aesthetic anchor structure in the community demonstrating economical design, minimizing energy use and ecological concerns.

Preliminary space requirements include 32,000 square feet of enclosed building to house the City's Police Station. Moving the City Court will also be considered.

Project Justification:

Relocate the City Police Department from East College Street to a more centralized location that has the ability to house both the Carbondale Police and City Court.

Project Capital Costs:

Budgeted FY 2010	4,904,000
Estimated FY 2011	1,600,000
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	6,504,000
Prior Years Costs	1,092,728
Later Years Costs	0
Total Cost	\$7,596,728

Fund Source:

Local Improvement Fund:

Fund Balance-General Revenue	\$5,300
Transfer from the General Fund	\$453,600
State Aid	\$633,828
General Obligation Bonds	<u>\$6,504,000</u>

Total \$7,596,728

Operating Budget Impact:

Currently, the police department rents the building they occupy for approximately \$195,000 annually. This rental cost will be traded for an annual debt service payment on a General Obligation Bond which will be the source of revenue to construct the facility. This cost is estimated for budget purposes as the market interest rate for the bond sale is uncertain.

**Community Investments Program
FY 2010 through FY 2014**

**Fire Station #1 (Wall Street) Equipment Storage Building
CIP #PB0302**

Project Description:

This project consists of constructing a 32' x 36' x 14' post frame, heated building on a reinforced concrete slab. Two 12' x 12' overhead doors and a 3' entry door will be provided for access. The inside walls will be finished with ½: drywall and the exterior will be vinyl siding.

Project Justification:

The storage building will be necessary to store the equipment and supplies.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	54,000
Total Five-Year Costs	54,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$54,000

Fund Source:

Local Improvement Fund:	
Loan	<u>\$54,000</u>
Total	\$54,000

Operating Budget Impact:

This project is in the beginning stages and may likely be postponed further into the future.

**700 Block of south Illinois Avenue Parking Lot
CIP #PK0701**

Project Description:

This project includes a portion of purchased railroad right-of-way located on the west side of the tracks extending north from Mill Street to a point approximately 200 feet south of the center line of College Street be utilized to construct a parking lot.

Project Justification:

This parking lot provides additional parking for the downtown businesses

Project Capital Costs:

Budgeted FY 2010	150,000
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	150,000
Prior Years Costs	8,000
Later Years Costs	0
Total Cost	\$158,000

Fund Source:

Parking Systems Operation Fund:	
Fund Balance - Service Charge	<u>\$158,000</u>
Total	\$158,000

Operating Budget Impact:

Maintenance impact will be minimal for the newly paved lot. There is a savings of approximately \$850 annually due to the discontinuation of maintenance necessary to the oil and chip surface.

**Community Investments Program
FY 2010 through FY 2014**

**Washington Street Sanitary Sewer
CIP #SA7301**

Project Description:

Replace existing 8" sanitary sewer on Washington Street from Monroe to College with a new 8" sanitary sewer.

Project Justification:

Existing 8" sanitary sewer in need of repair and replacement.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	250,000
Estimated FY 2014	0
Total Five-Year Costs	250,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$250,000

Fund Source:

Waterworks and Sewerage Fund:

WasteWater System Fund Balance:
Utility Fund Revenues, Water &
Sewer User Fees \$250,000

Total \$250,000

Operating Budget Impact:

The line replacement will prevent the cost of utilizing the sewer jet for maintaining flow as well as any excavation repairs necessary due to the old line. Maintenance cost savings is estimated to be approximately \$560 annually.

**Crestview Sanitary Sewer Rehabilitation
CIP #SA0001**

Project Description:

Replace existing 8" sanitary sewer on Crestview lane.

Project Justification:

Existing 8" sanitary sewer in need of repair and replacement..

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	100,000
Total Five-Year Costs	100,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$100,000

Fund Source:

Waterworks and Sewerage Fund:

WasteWater System Fund Balance:
Utility Fund Revenues, Water &
Sewer User Fees \$100,000

Total \$100,000

Operating Budget Impact:

The line replacement will prevent the cost of utilizing the sewer jet for maintaining flow as well as any excavation repairs necessary due to the old line. Maintenance cost savings is estimated to be approximately \$560 annually.

**Community Investments Program
FY 2010 through FY 2014**

**East/West Sanitary Sewer Between Schwartz Street and College Street
CIP #SA0106**

Project Description:

Replace existing 8" sanitary sewer west of Oakland Avenue between Schwartz Street and College Street.

Project Justification:

Existing 8" sanitary sewer in need of repair and replacement.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	135,523
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	135,523
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$135,523

Fund Source:

Waterworks and Sewerage Fund:

WasteWater System Fund Balance:
Utility Fund Revenues, Water &
Sewer User Fees \$135,523

Total \$135,523

Operating Budget Impact:

The line replacement will prevent the cost of utilizing the sewer jet for maintaining flow as well as any excavation repairs necessary due to the old line. Maintenance cost savings is estimated to be approximately \$560 annually.

**Sanitary Sewer Rehabilitation Program
CIP #SA0901**

Project Description:

Annual Sewer Rehabilitation Program to maintain and improve the integrity of the sewer system and repair problem areas.

Project Justification:

Many sewers are in need of repair to improve pipe condition and reduce infiltration and inflow. In addition, the program would reduce blockage in the sewer lines causing customer problems and possible damage to homes.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	500,000
Estimated FY 2012	500,300
Estimated FY 2013	500,000
Estimated FY 2014	500,000
Total Five-Year Costs	2,000,300
Prior Years Costs	130,000
Later Years Costs	650,000
Total Cost	\$2,780,300

Fund Source:

Waterworks and Sewerage Fund:

WasteWater System Fund Balance:
Utility Fund Revenues, Water &
Sewer User Fees \$2,780,300

Total \$2,780,300

Operating Budget Impact:

This on-going improvement program is providing monies in future years which will be used as each line is identified.

**Community Investments Program
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**Illinois Avenue Streetscape Improvements (Grand Ave. To Oak St. Combines SP004,SP005)
CIP#SP0904**

Project Description:

This project entails extensive improvements and enhancement of the downtown streetscape along Illinois Avenue from Grand Avenue to oak Street. Overall focus and vision of the project includes improved sidewalks, new decorative street lights, relocation of utilities, landscaping and pedestrian amenities.

Project Justification:

This project is to enhance the overall appearance of Illinois Avenue and provide for a unified design theme than can be carried out on adjoining streets throughout the downtown area.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	150,000
Estimated FY 2012	1,800,000
Estimated FY 2013	1,800,000
Estimated FY 2014	1,650,000
Total Five-Year Costs	5,400,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$5,400,000

Fund Source:

Local Improvement Fund:

State Aid, Grant, Motor Fuel Tax \$5,400,000

Total \$5,400,000

Operating Budget Impact:

It is too early to calculate expected costs.

**Piles Fork Creek and Drainage Basin
CIP#SS0901**

Project Description:

Provide hydraulic analysis for the Piles Fork Creek drainage basin and engineering design to improve the capacity and aesthetics of the creek.

Project Justification:

To reduce flooding issues associated with Piles Fork Creek and enhance the corridor for community recreational use and green space.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	100,000
Estimated FY 2012	1,300,000
Estimated FY 2013	1,200,000
Estimated FY 2014	0
Total Five-Year Costs	2,600,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$2,600,000

Fund Source:

Local Improvement Fund:

State Aid, Grant, Motor Fuel Tax \$2,600,000

Total \$2,600,000

Operating Budget Impact:

In the event of a flood, there would be a savings for public safety personnel needed to divert traffic to alternate routes. This cost is not determined.

**Community Investments Program
FY 2010 through FY 2014**

**Oak Street Extension (Wall Street to Lewis Lane)
CIP #ST8501**

Project Description:

Construct Oak Street extension from Wall Street behind the businesses to Lewis Lane/Rendleman Road intersection.

This project would require a bridge over Piles Fork Creek and special attention given to the flood plain areas. This would create an access point from the northeast neighborhood to the commercial areas on the east side of Carbondale.

Right-of-way would be required for the project.

Project Justification:

- To improve access from the north part of the city to the east side commercial area.
- Could facilitate development of housing sites in the northeast area, east of Wall Street.
- Would facilitate additional commercial development west of Lewis Lane.
- Would relieve some pressure at the Main Street / Wall Street intersection.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	225,000
Estimated FY 2012	2,475,000
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	2,700,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$2,700,000

Fund Source:

Local Improvement Fund:

Fund Balance - General Revenue \$2,700,000

Total \$2,700,000

Operating Budget Impact:

This project will need more analysis to determine expected future costs for maintaining the bridge.

**Community Investments Program
FY 2010 through FY 2014**

**Reed Station Road Reconstruction (Illinois Route 13 to Walnut Street, Old Route 13)
CIP #ST0102**

Project Description:

Improve Reed Station Road between East Walnut Street and Illinois Route 13.

Project Justification:

These improvements are being included to provide better access from Route 13 to the Carbondale Business Development Corporation Business park and other businesses in the area.

Project Capital Costs:

Budgeted FY 2010	1,457,623
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	1,457,623
Prior Years Costs	421,914
Later Years Costs	0
Total Cost	\$1,879,537

Fund Source:

Motor Fuel Tax Fund:	
State Aid or Grant	\$60,000
Local Improvement Fund:	
Fund Balance - General Revenues	\$338,357
Transfer from the General Fund	\$102,856
Federal Aid	<u>\$1,378,325</u>
Total	\$1,879,537

Operating Budget Impact:

The current surface of this road is oil and chip. A more permanent surface will reduce the annual maintenance cost. Maintenance savings is estimated at \$2,010 per year.

**Reed Station Parkway Connector to Illinois Route 13
CIP #ST0305**

Project Description:

This project provides ingress and egress from and to west bound Illinois Route 13 to the businesses north of this route and west of Reed Station Road.

Project Justification:

This project provides better access and encourages future developments.

Project Capital Costs:

Budgeted FY 2010	1,610,000
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	1,610,000
Prior Years Costs	85,000
Later Years Costs	0
Total Cost	\$1,695,000

Fund Source:

Local Improvement Fund:	
Fund Balance - General Revenues	\$12,000
Transfer From General Fund	\$25,000
Property Owner Contribution, and Assessments	\$310,000
Federal Aid	<u>\$1,348,000</u>
Total	\$1,695,000

Operating Budget Impact:

It is anticipated that there will be minimal maintenance costs for this new lane for the first 10 years.

**Community Investments Program
FY 2010 through FY 2014**

**Sycamore Street Extension
CIP #ST0602**

Project Description:

Construct Sycamore Street extension to New Era Road. This project would require a bridge over Little Crab Orchard Creek and special attention given to the flood plain areas. This would create an access point from the northwest neighborhood to the commercial areas on the west side of Carbondale.

Right-of-Way would be required for the project.

Project Justification:

- To improve access from the north part of the city to the west side commercial area.
- Could facilitate development of housing sites in the northwest area.
- Would facilitate additional commercial development west of sycamore Street.
- Would relieve some pressure at the Main Street intersection.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	160,000
Estimated FY 2012	800,000
Estimated FY 2013	800,000
Estimated FY 2014	0
Total Five-Year Costs	1,920,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$1,920,000

Fund Source:

Local Improvement Fund:	
Federal Aid, Grant	<u>\$1,920,000</u>
Total	\$1,920,000

Operating Budget Impact:

This project will need more analysis to determine expected future costs for maintaining the bridge.

**Parking Lanes Walnut Street Resurfacing
(From Oakland Avenue to Lewis Lane)
CIP#ST0902**

Project Description:

Bituminous resurfacing of the parking lanes on Walnut Street from Oakland Avenue to Lewis Lane.

Project Justification:

The Illinois Department of Transportation is going to resurface Walnut Street from Oakland Avenue to Lewis Lane will include the parking lanes at the City's discretion. The cost to the City is \$20,000.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	20,000
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	20,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$20,000

Fund Source:

Local Improvement Fund:	
Transfer from General Fund	<u>\$20,000</u>
Total	\$20,000

Operating Budget Impact:

It is anticipated that there will be no budget impact for this improvements.

**Community Investments Program
FY 2010 through FY 2014**

**Marion Street (From college Street to Mill Street)
Extension
CIP#ST0904**

Project Description:

Extend Marion Street from College Street to Mill Street to facilitate police traffic at new Public Safety Center.

Project Justification:

Provide good access for police and public.

Project Capital Costs:

Budgeted FY 2010	320,000
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	320,000
Prior Years Costs	15,000
Later Years Costs	625,000
Total Cost	\$960,000

Fund Source:

Local Improvement Fund:

Fund Balance - General Revenue	\$75,000
Federal Aid	<u>\$885,000</u>

Total \$960,000

Operating Budget Impact:

This new portion of street should have minimal maintenance required for the first 10 years.

**Wall Street Resurfacing (From Park Street to Mill Street)
CIP#ST1005**

Project Description:

The proposed improvement consists of resurfacing Wall Street from the intersection of Park Street north approximately 519 ft. to a point south of Grand Street and from a point north of Grand Street north approximately 1106 ft. to Mill Street for a total distance of 1625 ft.

Project Justification:

Maintain and improve the street surface to prevent deterioration, provide an improved riding surface and community appearance.

Project Capital Costs:

Budgeted FY 2010	175,430
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	175,430
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$175,430

Fund Source:

Local Improvement Fund:

Federal Aid	<u>\$175,430</u>
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Total \$175,430

Operating Budget Impact:

The resurfacing should reduce annual maintenance costs for this stretch of road by approximately \$2,800.

**Community Investments Program
FY 2010 through FY 2014**

**Washington Street Resurfacing (From Mill Street to Walnut Street)
CIP#ST1006**

Project Description:

The proposed improvement consists of furnishing all materials, labor and equipment necessary to improve Washington Street (FAU 9722) from the intersection of Freeman Street north to Walnut Street for a total distance of 1,520ft.

Project Justification:

Maintain and improve the street surface to prevent deterioration, provide an improved riding surface and community appearance.

Project Capital Costs:

Budgeted FY 2010	172,569
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	172,569
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$172,569

Fund Source:

Local Improvement Fund:	
Federal Aid	<u>\$172,569</u>
Total	\$172,569

Operating Budget Impact:

The street improvement should reduce annual maintenance costs approximately \$800.

**Oakland Avenue Resurfacing (From Willow Street to Rigdon Street)
CIP#ST1007**

Project Description:

The proposed improvement consists of resurfacing Oakland Avenue from the intersection of Willow Street north to Rigdon Street for a total distance of 1,430 ft.

Project Justification:

Project Capital Costs:

Budgeted FY 2010	108,001
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	108,001
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$108,001

Fund Source:

Local Improvement Fund:	
Transfer from General Fund	<u>\$108,001</u>
Total	\$108,001

Operating Budget Impact:

The resurfacing of this street should have a minimal impact on operating expenses.

**Community Investments Program
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**Washington Street Water Main (Walnut Street to Grand Avenue)
CIP #WS8503**

Project Description:

Install a new 8" ductile iron water main on south Washington Street between Walnut Street and Grand Avenue (approximately 3,100 L.F.)

This project is being coordinated with the improvements on Washington Street during the Mill Street Underpass Project.

Project Justification:

Replace the existing 4" water main to increase the flow for fire protection and to improve pressure to the buildings along Washington Street.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	313,523
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	313,523
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$313,523

Fund Source:

Waterworks and Sewerage Fund:

Water System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	<u>\$313,523</u>
Total	\$313,523

Operating Budget Impact:

This project has a minimal impact on maintenance expenses, however is a significant improvement to water flow for safety purposes when fire department needs water supply.

**Walnut Street Water Main (Illinois Avenue to Washington Street)
CIP #WS9502**

Project Description:

Install new 8" Ductile Iron Water Main on Walnut Street from Illinois Avenue to Washington Street

Project Justification:

Existing water main is in very poor condition and has broken several times with the last breakage under the railroad tracks, causing the water main to be dead-ended on both sides of the railroad tracks. This project would eliminate the old deteriorated line and reduce future maintenance costs, It will also aid in fire protection in the area.

Project Capital Costs:

Budgeted FY 2009	0
Estimated FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	154,397
Total Five-Year Costs	154,397
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$154,397

Fund Source:

Waterworks and Sewerage Fund:

Federal Aid	<u>\$154,397</u>
Total	\$154,397

Operating Budget Impact:

This improvement should reduce maintenance costs by approximately \$11,000 annually.

**Community Investments Program
FY 2010 through FY 2014**

**Freeman Street Water Main Replacement
(Oakland Avenue to Valley Road)
CIP #WS9807**

Project Description:

This project consists of replacing approximately 1,350 feet of water main with new 6" line on Freeman Street from Oakland Avenue to Valley Road.

Project Justification:

This line has experienced numerous breaks on the east end and is becoming an unreliable line. Because of its location under a concrete street, maintenance costs are extensive.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	294,386
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	294,386
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$294,386

Fund Source:

Waterworks and Sewerage Fund:	
Water System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	\$294,386
Total	\$294,386

Operating Budget Impact:

The replacement of this old line with a new line should reduce maintenance costs approximately \$9,500 annually.

**Main Street Water Main Replacement (Marion Street to Lewis Lane)
CIP #WS9813**

Project Description:

Replace or provide a new water main along East Main Street for 4,200+ft. This project is scheduled to be constructed in phases.

- (1) The First phase was to relocate the water main at Piles Fork Creek to accommodate the bridge widening and replacement which completion was in the summer of 2007.
 - (2) Phase two is from Lewis Lane to Piles Fork Creek.
 - (3) Phase three is from Piles Fork Creek to Wall Street.
 - (4) The final phase is from Wall Street to Marion Street.
- Both permanent and temporary easements may be required in some areas.

Project Justification:

This older water main needs to be replaced and/or a new main installed to provide better water quality and improved fire protection.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	988,901
Total Five-Year Costs	988,901
Prior Years Costs	89,959
Later Years Costs	0
Total Cost	\$1,078,860

Fund Source:

Waterworks and Sewerage Fund:	
Water System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	\$1,078,860
Total	\$1,078,860

Operating Budget Impact:

It is too early to consider related costs.

**Community Investments Program
FY 2010 through FY 2014**

**Hill Street Water Line Replacement (Carter Street to Oakland Avenue)
CIP #WS0107**

Project Description:

This project consists of replacing a 6" water line with a new 6" line on Hill Street From Carter Street to Oakland Avenue.

Project Justification:

Upgrade one of the older water lines in the City. This should eliminate pressure problems and improve fire flows.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	85,042
Total Five-Year Costs	85,042
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$85,042

Fund Source:

Waterworks and Sewerage Fund:

Water System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	<u>\$85,042</u>
Total	\$85,042

Operating Budget Impact:

It is too early to consider related costs.

**Cherry Street Water Line Replacement (Oakland Avenue to James Street)
CIP #WS0108**

Project Description:

This project consist of replacing a 10" water line with a new line on Cherry Street from Oakland Avenue to James Street

Project Justification:

Upgrade one of the older water lines in the City. This should eliminate pressure problems and improve fire flows.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	80,040
Estimated FY 2014	0
Total Five-Year Costs	80,040
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$80,040

Fund Source:

Waterworks and Sewerage Fund:

Water System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	<u>\$80,040</u>
Total	\$80,040

Operating Budget Impact:

It is too early to consider related costs.

**Community Investments Program
FY 2010 through FY 2014**

**Michaels Street Water Line Replacement (From Willow Street to 300 ft. North)
CIP #WS0112**

Project Description:

Replace approximately 300 feet of water line on Michaels Street from Willow to 300 ft. north.

Project Justification:

Upgrade one of the older deteriorating water lines in the City.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	60,030
Total Five-Year Costs	60,030
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$60,030

Fund Source:

Waterworks and Sewerage Fund:	
Water System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	<u>\$60,030</u>
Total	\$60,030

Operating Budget Impact:

It is too early to consider related costs.

**McKinney Street Water Main Replacement (Sycamore Street to North Street)
CIP #WS0115**

Project Description:

Replace 1,500 feet of water main on McKinley Street from Sycamore Street to Short Street.

Project Justification:

Existing water line is deteriorating and needs to be replaced prior to the proposed street construction project (ST9002).

Project Capital Costs:

Budgeted FY 2010	201,825
Estimated FY 2011	0
Estimated FY 2012	20,737
Estimated FY 2013	248,844
Estimated FY 2014	0
Total Five-Year Costs	269,581
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$269,581

Fund Source:

Waterworks and Sewerage Fund:	
Water System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	<u>\$269,581</u>
Total	\$269,581

Operating Budget Impact:

The new line will prevent breaks due to deterioration and is expected to save approximately \$600 annually in future repairs.

**Community Investments Program
FY 2010 through FY 2014**

**Mill Street Water Main (Illinois Avenue to
Oakland Avenue)
CIP #WS0201**

Project Description:

This project replaces 2,900 feet of 6" water main on Mill Street between University Avenue and Oakland Avenue.

Project Justification:

This eliminates water line that has had high maintenance costs and disruption of service.

Project Capital Costs:

Budgeted FY 2010	950,187
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	950,187
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$950,187

Fund Source:

Waterworks and Sewerage Fund:	
IEPA Loan	\$878,203
Water System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	<u>\$71,984</u>
Total	\$950,187

Operating Budget Impact:

This is the replacement of approximately ½ mile of problematic water line. This should save the City approximately \$19,000 annually in repair costs.

**Water Storage Facility (Phase II):
CIP #WS0202**

Project Description:

To design and construct a new water storage facility on park Street and close and abandon the below ground water wells at the old water treatment plant on Wall Street.

Project Justification:

In 1998 the Illinois Environmental Protection Agency noted that the City of Carbondale had below ground water storage facilities, clear wells, that were in the flood plain. These clear wells are located at the old water treatment plant on Wall Street. The clear wells had overflow pipes that during a very major flooding condition could allow inflow of non-potable water. The City installed valves on the overflows and is monitoring the stream for high water conditions, which is satisfactory for the present. However, as a part of the agreement the City is to remove these structures in a reasonable period of time.

Project Capital Costs:

Budgeted FY 2010	3,980,000
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	3,980,000
Prior Years Costs	211,448
Later Years Costs	0
Total Cost	\$4,191,448

Fund Source:

Waterworks and Sewerage Fund:	
IEPA Loan	\$3,980,000
Water System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	<u>\$211,448</u>
Total	\$4,191,448

Operating Budget Impact:

The cost for maintenance should be minimal for the first 5 years.

**Community Investments Program
FY 2010 through FY 2014**

**Schwartz Street Water Line Replacement
(Oakland Avenue to Eason Drive)and Orchard
Drive (400 Block to Walnut Street)
CIP #WS0308**

Project Description:

Replace approximately 850 feet of water main on Schwartz Street from Oakland Avenue to Eason Drive and replace approximately 1,100 feet of water main on Orchard Drive from the 400 Block to Walnut Street..

Project Justification:

Existing water line needs to be replaced prior to the proposed street construction project (ST8705).

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	200,000
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	200,000
Prior Years Costs	3,149
Later Years Costs	0
Total Cost	\$203,149

Fund Source:

Waterworks and Sewerage Fund:

Water System Fund Balance:

Utility Fund Revenues,

Water & Sewer User Fees \$203,149

Total \$203,149

Operating Budget Impact:

Replacing the 850 feet of old water main could save in excess of \$10,000 per year in maintenance during the first 10 years.

**Community Investments Program
FY 2010 through FY 2014**

**Illinois Clean Lakes Program
(Cedar Lake & City Reservoir)
CIP #WS0402**

Project Description:

Severe erosion is occurring along the shoreline in several areas of Cedar Lake primarily due to wave action. This action puts soils and sediments into the lake 1) reducing the holding capacity of the lake and 2) suspending material in the water that effects water quality and treatment costs. Engineering would determine the slope under water at these sites and then a barge would be used to deliver crushed rock to these sites from a staging platform. A fabric would first be installed under water and by means of a conveyer belt on the barge, the rock would be dumped offshore a few feet, creating a mini breakwater. This stops the wave action and the escarpment behind the breakwater and will, within a few years, stabilize and hold plant material again aiding in holding soils out of the lake. This method of stabilizing shoreline has been quite successful on other lakes. Kincaid Lake has had very good, provable results as far as water quality at the treatment plant, using this method. Federal and State grants have been applied for, part of the city match for the project is \$8,000 of in kind City Lake management staff work for community information and education of clean lake issues.

Project Justification:

To maintain and improve the water quality and holding capacity at Cedar lake, which is the primary drinking water source for the City.

Project Capital Costs:

Budgeted FY 2010	392,000
Estimated FY 2011	588,000
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	980,000
Prior Years Costs	146,966
Later Years Costs	0
Total Cost	\$1,126,966

Fund Source:

Waterworks and Sewerage Fund:

Water System:

State Aid or Grant \$894,155

Water System Fund Balance:

Utility Fund Revenues,
Water & Sewer User Fees \$232,811

Total \$1,126,966

Operating Budget Impact:

Once the fabric and rock is in place, it is anticipated that very little maintenance will be needed for 10 years or more.

**Community Investments Program
FY 2010 through FY 2014**

**Union Hill Road Raw Water Line Relocation
CIP #WS0801**

Project Description:

Relocate or adjust raw water line from Cedar Creek Lake Pump Station to Water Treatment Plant.

Project Justification:

Jackson County Highway Department is planning to reconstruct Union Hill Road from Pleasant Hill Road to Cedar Creek Road. Raw water main is in County Highway right-of-way and is required to be relocated by City at no expense to Jackson County.

Project Capital Costs:

Budgeted FY 2010	20,000
Estimated FY 2011	154,240
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	174,240
Prior Years Costs	101,694
Later Years Costs	0
Total Cost	\$275,934

Fund Source:

Waterworks and Sewerage Fund:	
Water System Fund Balance:	
Utility Fund Revenues,	
Water & Sewer User Fees	<u>\$275,934</u>
Total	\$275,934

Operating Budget Impact:

This project was a necessary replacement due to outside factors. It is not anticipated that maintenance will be necessary on the new line for the first 10 years.

**Crab Orchard Water district Improvements
CIP #WS0803**

Project Description:

Improve areas served by the former Crab Orchard Water District by making connections to existing city Water lines where available and replace water lines as described in agreement with the former Crab Orchard Water District in the following priority order: Area 9,1,4,6,8,3,7,5,2.

Project Justification:

Many of the lines are in poor condition and need to be replaced.

Project Capital Costs:

Budgeted FY 2010	8,000
Estimated FY 2011	193,000
Estimated FY 2012	247,000
Estimated FY 2013	676,000
Estimated FY 2014	335,000
Total Five-Year Costs	1,459,000
Prior Years Costs	423,627
Later Years Costs	1,558,000
Total Cost	\$3,440,627

Fund Source:

Waterworks and Sewerage Fund:	
Water System Fund Balance:	
Utility Fund Revenues,	
Water & Sewer User Fees	<u>\$3,440,627</u>
Total	\$3,440,627

Operating Budget Impact:

It is anticipated that maintenance will not be necessary on the new lines for approximately the first 10 years.

**Community Investments Program
FY 2010 through FY 2014**

**Backup Water Supply
CIP #WS0901**

Project Description:

Study options for improving the backup water supply for the City's Water Treatment Plant, develop and analyze alternatives and design the chosen option(s).

Project Justification:

The City reservoir has been the backup water supply for years. The lake has now silted to a point that severely limits the amount of useful water that can be pumped from it to the water treatment plant. In addition, there is no backup power at Cedar Lake raw water pumping station. In the event of an emergency the City would not have a supply of water to the plant.

Project Capital Costs:

Budgeted FY 2010	142,500
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	142,500
Prior Years Costs	5,000
Later Years Costs	6,000,000
Total Cost	\$6,147,500

Fund Source:

Waterworks and Sewerage Fund:	
State Aid	<u>\$6,147,500</u>
Total	\$6,147,500

Operating Budget Impact:

This project is anticipated to be in the distant future and would be a one time cost for excavation.

**Marion Street (North from Fisher Street) Water
Line Replacement
CIP #WS0903**

Project Description:

Replace 1,600 feet of 6 inch water line on Marion north from Fisher.

Project Justification:

The water line breaks frequently and needs to be replaced.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	187,200
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	187,200
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$187,200

Fund Source:

Waterworks and Sewerage Fund:	
Water System Fund Balance:	
Utility Fund Revenues,	
Water & Sewer User Fees	<u>\$187,200</u>
Total	\$187,200

Operating Budget Impact:

The estimated savings from repair expenses is between \$10,000 and \$15,000 annually.

**Community Investments Program
FY 2010 through FY 2014**

**Pecan Street Water Line Replacement
(400-900 blocks)
CIP#WS9904**

Project Description:

Replace 2,700 feet of six inch water line on Pecan Street 400-900 blocks.

Project Justification:

This line on Pecan Street has broken several times. It needs to be replaced.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	473,850
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	473,850
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$473,850

Fund Source:

Waterworks and Sewerage Fund:	
Water System Fund Balance:	
Utility Fund Revenues,	
Water & Sewer User Fees	<u>\$473,850</u>
Total	\$473,850

Operating Budget Impact:

The estimated savings from repair expenses is between \$15,000 and \$18,000 annually.

**Sycamore Street Water Line Replacement
(From Poplar Street to Oakland Avenue)
CIP #WS0905**

Project Description:

Replace 1,500 feet of ten (10) inch water line on Sycamore Street.

Project Justification:

The Sycamore Street water line (Poplar Street to Oakland Avenue) broke several times. The line needs to be replaced.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	272,025
Estimated FY 2014	0
Total Five-Year Costs	272,025
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$272,025

Fund Source:

Waterworks and Sewerage Fund:	
Water System Fund Balance:	
Utility Fund Revenues,	
Water & Sewer User Fees	<u>\$272,025</u>
Total	\$272,025

Operating Budget Impact:

The estimated savings from repair expenses is approximately \$10,000 annually.

**Community Investments Program
FY 2010 through FY 2014**

**Cedar Lake Boat Access Program Development
CIP#WS0908**

Project Description:

The Carbondale Boat Ramp at Cedar Lake would have several improvements installed under this program. Two courtesy boat piers would be installed at the lunch ramp to aid boaters when loading in or out. Improved lighting over the entire area would aid boaters at night and help insure safety. A new restroom meeting current accessibility standards would be installed. A ramp used to load barges for shoreline stabilization would be converted to a handicap accessible fishing pier and small craft launching site. The entire parking lot would be resurfaced and restriped.

Project Justification:

To maintain and improve the facilities at Cedar Lake.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	238,450
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	238,450
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$237,450

Fund Source:

Waterworks and Sewerage Fund:	
State Aid	\$200,000
Water System Fund Balance:	
Utility Fund Revenues, Water & Sewer User Fees	<u>\$38,450</u>
Total	\$238,450

Operating Budget Impact:

This improvement will add to comforts of the users of the facility with minimum continued maintenance.

**Paint Water Treatment Plant
CIP #WS1001**

Project Description:

Painting of all steel structures at the Water Treatment Plant. Those structures are the filters, clarifiers, head tank and piping between.

Project Justification:

The plant was put in services in 1994. The paint is still original and showing signs of fatigue. New paint is needed to protect the steel from corrosion. 15 years exceeds the useful life of the paint.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	455,000
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	455,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$455,000

Fund Source:

Waterworks and Sewerage Fund:	
State Aid	<u>\$455,000</u>
Total	\$455,000

Operating Budget Impact:

The estimated savings from repair expenses is approximately \$10,000 annually.

**Community Investments Program
FY 2010 through FY 2014**

**Cedar Lake Repair Existing Damage at the Lake
Outflow and Replace & Extend Gabions at Lake
Spillway
CIP #WS1002**

Project Description:

Repair the damaged/displaced portion of the riprap spillway with gabions.

Project Justification:

Due to heavy rains in the spring of 2008, the riprap portion of the spillway suffered heavy damage/displacement. The spillway needs to be repaired to prevent further degradation of the gabion portion of the spillway.

Project Capital Costs:

Budgeted FY 2010	175,000
Estimated FY 2011	189,000
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	364,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$364,000

Fund Source:

Waterworks and Sewerage Fund:	
Water System Fund Balance:	
Utility Fund Revenues,	
Water & Sewer User Fees	<u>\$364,000</u>
Total	\$364,000

Operating Budget Impact:

This is a cost that may be incurred every 10 to 15 years based upon the gradual wear of the forces of water on the rocked structure.

**Glenview Water Line Improvement
CIP #WS1005**

Project Description:

Install a new 12" water line on Glenview from the south side of West Main Street to Sycamore Street..

Project Justification:

The project helps to transmit water from the Helen Street Tower to the West Main Street area. The project is in the somewhat dated grid study but does fit in the long term improvements of the distribution system. It also allows for development on both sides of Glenview as there is not an existing line.

Project Capital Costs:

Budgeted FY 2010	189,000
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	189,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$189,000

Fund Source:

Waterworks and Sewerage Fund:	
Water System Fund Balance:	
Utility Fund Revenues,	
Water & Sewer User Fees	<u>\$189,000</u>
Total	\$189,000

Operating Budget Impact:

There is no maintenance costs anticipated for the first 10 years.

**Community Investments Program
FY 2010 through FY 2014**

**Northwest Wastewater Treatment Plant Terminal
Lift Station Improvements
CIP#WW9901**

Project Description:

To design and construct a new raw sewage terminal pump station with submersible pumps.

Project Justification:

All the Equipment is obsolete and parts are not made for it. The raw station is over 25 years old. The existing pump drives are outdated and require frequent inspections and maintenance.

Current maintenance requires personnel to enter a confined space (38 feet below ground). Submersible pumps can be removed from wetwell to service without entering a potentially dangerous area. New pumps are more efficient than existing pumps.

Project Capital Costs:

Budgeted FY 2010	435,570
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	435,570
Prior Years Costs	505,510
Later Years Costs	0
Total Cost	\$941,080

Fund Source:

Waterworks and Sewerage Fund:	
Loan	\$894,307
Wastewater System Fund Balance:	
Utility Fund Revenues,	
Water and Sewer User Fees	<u>\$46,773</u>
Total	\$941,080

Operating Budget Impact:

It is expected that this improvement will save approximately \$8,000 - \$9,000 annually in electricity costs and approximately \$1,500 annually in maintenance for the old pumps.

**Northwest Wastewater Treatment Plant Digester
Lid and Gas Collection
CIP#WW0001**

Project Description:

Replace Digester Lid and Gas Collection and Mixers to help in venting off gases into the air, help with odor and make the digester more efficient to operate.

Project Justification:

The anaerobic digester was constructed in 1959-1960 with the old plant. In 1982 the lid was removed, sandblasted, painted and a new roof installed. The gas collection had deteriorated to the point that it could not be repaired and it was removed. In 1995-1996 a new boiler was installed with a complete gas burn boiler, this enables the boiler to burn all of the sewer gas by mixing it with natural gas used to heat the digester. The lid deteriorated which lets heat and gases escape. If the lid, gas collection and mixers are replaced the gas can be collected and burned in the boiler which will improve the environment and save some money on heating.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	1,150,000
Estimated FY 2014	0
Total Five-Year Costs	1,150,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$1,150,000

Fund Source:

Waterworks and Sewerage Fund:	
Loan	<u>\$1,150,000</u>
Total	\$1,150,000

Operating Budget Impact:

It is too early to determine the potential cost benefit of the increased efficiency of the improvement.

**Community Investments Program
FY 2010 through FY 2014**

**Oak Street Lift Station Replace Existing Pumps
CIP #WW0003**

Project Description:

Convert existing pump station from dry well type (non-submersible pumps) to submersible type. Abandon existing dry well.

Project Justification:

Maintenance of pumps require personnel to enter into a confined space which results in extra manhours to conform with required safety procedures. The new submersible pumps allow the pumps to be removed for servicing. These pumps typically require less maintenance and are less expensive to operate.

Project Capital Costs:

Budgeted FY 2010	5,000
Estimated FY 2011	370,000
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	375,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$375,000

Fund Source:

Waterworks and Sewerage Fund:

Wastewater System Fund Balance:
Utility Fund Revenues,
Water & Sewer User Fees \$375,000

Total \$375,000

Operating Budget Impact:

It is anticipated that the savings of personnel maintenance costs and savings of utility costs related to this improvement could save approximately \$1,400 to \$1,900 annually.

**Short Street Lift Station Replace Existing Pumps
CIP #WW0301**

Project Description:

Convert existing pump station from dry well type (non-submersible pumps) to submersible type. Abandon existing dry well.

Project Justification:

Maintenance of pumps require personnel to enter into a confined space which results in extra manhours to conform with required safety procedures. Newer submersible pumps are removed for servicing, typically require less maintenance and are less expensive to operate.

Project Capital Costs:

Budgeted FY 2010	5,000
Estimated FY 2011	175,030
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	180,030
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$180,030

Fund Source:

Waterworks and Sewerage Fund:

Wastewater System Fund Balance:
Utility Fund Revenues,
Water & Sewer User Fees \$180,030

Total \$180,030

Operating Budget Impact:

It is anticipated that the savings of personnel maintenance costs and savings of utility costs related to this improvement could save approximately \$1,400 to \$1,900 annually.

**Community Investments Program
FY 2010 through FY 2014**

**Northwest Wastewater Treatment Plant Equalization Basin
CIP #WW0401**

Project Description:

This project would include designing and constructing a large lagoon to accommodate excess flows from the City's sanitary sewer collection system.

Project Justification:

This lagoon would provide relief for sanitary sewers that surcharge during heavy rains due to infiltration and in flow.

Project Capital Costs:

Budgeted FY 2010	922,000
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	922,000
Prior Years Costs	35,000
Later Years Costs	0
Total Cost	\$957,000

Fund Source:

Waterworks and Sewerage Fund:

Loan	\$770,000
Wastewater System Fund Balance:	
Utility Fund Revenues,	
Water & Sewer User Fees	<u>\$187,000</u>
Total	\$957,000

Operating Budget Impact:

It is anticipated that little maintenance will be required for the lagoon.

**Northwest Wastewater Treatment Plant Aeration/Digester Air Improvements
CIP #WW1001**

Project Description:

Install new lower energy aeration equipment in existing tanks.

Project Justification:

To improve wastewater efficiencies and replace worn equipment by mechanically mixing tanks and adding oxygen as needed to cut down power consumption in the treatment process.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	1,170,110
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	1,170,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$1,170,000

Fund Source:

Waterworks and Sewerage Fund:

Loan	<u>\$1,170,000</u>
Total	\$1,170,000

Operating Budget Impact:

The estimated cost savings for this upgrade is approximately \$40,000 annually.

**Community Investments Program
FY 2010 through FY 2014**

**Northwest Wastewater Treatment Plant Bar Screen on Grid Chamber
CIP #WW1002**

Project Description:

To replace the bar screen with a finer one.

Project Justification:

To reduce rags and lower maintenance.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	210,000
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	210,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$210,000

Fund Source:

Waterworks and Sewerage Fund:

 Loan \$210,000

Total \$210,000

Operating Budget Impact:

It is too soon to estimate potential savings from this improvement.

**Northwest Wastewater Treatment Plant Chlorine Update to UV
CIP #WW1003**

Project Description:

To upgrade disinfection of the plant effluent.

Project Justification:

Reduces the hazard associated with the use of chlorine.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	305,000
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	305,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$305,000

Fund Source:

Waterworks and Sewerage Fund:

 Wastewater System Fund Balance:

 Utility Fund Revenues,

 Water & Sewer User Fees \$305,000

Total \$305,000

Operating Budget Impact:

This project will benefit the quality of effluent released from the plant. Cost/benefit has not been identified.

**Community Investments Program
FY 2010 through FY 2014**

**NWWWTP Final Clarifiers Troughs, Weirs, Center Column and Grout Floor in Both Tanks Replaced
CIP #WW1004**

Project Description:

To upgrade plant components for sludge handling which are more than 30 years old.

Project Justification:

To avoid a major break down in the treatment process, which will cause the plant effluent to go out of compliance.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	1,370,000
Total Five-Year Costs	1,370,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$1,370,000

Fund Source:

Waterworks and Sewerage Fund:

 Loan \$1,370,000

Total **\$1,370,000**

Operating Budget Impact:

It is too early to identify cost/benefit data.

**Southeast Wastewater Treatment Plant Mechanical Bar Screen
CIP #WW1005**

Project Description:

Installation of a mechanical bar screen in the raw wetwell to remove trash and debris from the wastewater stream prior to raw pumps.

Project Justification:

To reduce maintenance issues with debris coming through the raw pumps and improve safety for personnel by reducing necessity of entering a confined space.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	0
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	910,000
Total Five-Year Costs	910,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$910,000

Fund Source:

Waterworks and Sewerage Fund:

 Wastewater System Fund Balance:

 Utility Fund Revenues,

 Water & Sewer User Fees \$910,000

Total **\$910,000**

Operating Budget Impact:

It is too early to identify the maintenance savings from this project.

**Community Investments Program
FY 2010 through FY 2014**

**Alarm Communication and Flow Monitoring System
for All Lift Stations
CIP #WW1006**

Project Description:

Communication system to monitor for high wet well, power failure and flow data.

Project Justification:

Replace existing obsolete equipment, improve reliability of alarm warning system, eliminate monthly telecommunication fees and provide capability to monitor and collect flow data for future infiltration and inflow studies.

Project Capital Costs:

Budgeted FY 2010	0
Estimated FY 2011	247,000
Estimated FY 2012	0
Estimated FY 2013	0
Estimated FY 2014	0
Total Five-Year Costs	247,000
Prior Years Costs	0
Later Years Costs	0
Total Cost	\$247,000

Fund Source:

Waterworks and Sewerage Fund:

Wastewater System Fund Balance:

Utility Fund Revenues,

Water & Sewer User Fees \$247,000

Total \$247,000

Operating Budget Impact

This project will eliminate all telephone lines to 15 lift stations for an annual savings of approximately \$4,700.