

City of Lawrence
Project Submittal Form

1. **Applicant Name:** City of Lawrence, KS
2. **Mailing Address:** PO Box 708
Lawrence, KS 66044
3. **Project Contact:** Mike Lawless
Title: Assistant Director of Utilities
Phone: 785-832-7862
4. **Project Name:** 2009 Cured-In-Place-Pipe (CIPP)– Project UT0902CS
5. **Project Description:** This project will allow for the rehabilitation of approximately 40,000 feet of sanitary sewer mains identified for rehabilitation due to age of pipe, pipe material, pipe defects based on maintenance and TV inspection records and presence of unused taps or connections that may contribute inflow/infiltration. This is an annual Capital Improvement Plan (CIP) project that was recommended as part of the *2003 Wastewater Master Plan*.
6. **Problem to Resolve:** The project will reduce treatment and energy costs at the wastewater plant and reduce the potential for collection system backups and overflows.
7. **Est. Design Completion Date:** Segment identification complete
8. **Status of Design (% complete):** 90%
9. **Est. Project Construction Start Date:** April 2009
10. **Estimated Project Cost:** \$1.0 million

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4. **Project Name:** Pump Station 25 Upgrade – Project CS0707
5. **Project Description:** This project will expand the firm pumping capacity of Pump Station 25 in the East Hills Business Park from 0.97 MGD to 3.0 MGD and allow for an ultimate capacity of 6.0 MGD. A new force main will be constructed parallel to the existing 8" force main from PS-25 to the Kaw WWTP. This project is being constructed to accept flow from Pump Station 49. Pump Station 49 allowed for the removal of two vacuum prime and one submersible pump stations. This is a Capital Improvement Plan (CIP) project that was recommended as part of the *2003 Wastewater Master Plan*.
6. **Problem to Resolve:** This project allows for the removal of the safety hazards and maintenance issues associated with Pump Station 25 which is a below grade pump station. It also allows for the consolidation of 3 small pump stations into a more basin oriented Pump Station 49.
7. **Est. Design Completion Date:** May 2009
8. **Status of Design (% complete):** 60%
9. **Est. Project Construction Start Date:** Late June 2009
10. **Estimated Project Cost:** \$3.4 million

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4. **Project Name:** Anaerobic Digester Improvements – Project WW0601
5. **Project Description:** The project involves the installation of a thermal sludge drying unit that will handle a portion of the sludge flows for the wastewater plant. This will include modifications to the Biosolids Dewatering Building, electrical and instrumentation controls, polymer system and modifications Digester Gas Control Building. The project will also allow the City to expand the Class A Biosolids program. This is a Capital Improvement Plan (CIP) project that was recommended as part of the *2003 Wastewater Master Plan*.
6. **Problem to Resolve:** This project will increase the capacity of the wastewater plant's solids processing stream to match the plant's liquid processing capacity and provide treatment for a community of 100,000 persons.
7. **Est. Design Completion Date:** August 2009
8. **Status of Design (% complete):** Negotiating a contract with the engineer.
9. **Est. Project Construction Start Date:** October 2009
10. **Estimated Project Cost:** \$5.0 million

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4. **Project Name:** Four Seasons Wet Weather Storage
Project UT0705CS
5. **Project Description:** This project will expand sanitary sewer wet weather storage at Pump Station 09 by 2.5 million gallons. The storage will be in the form of an open circular basin interconnected with the two existing basins. The project is located west of 31st and Kasold. This is a Capital Improvement Plan (CIP) project that was recommended as part of the *2003 Wastewater Master Plan*.
6. **Problem to Resolve:** The project will relieve collection system capacity issues along the 31st Street corridor during wet weather events.
7. **Est. Design Completion Date:** September 2009
8. **Status of Design (% complete):** Engineer has been selected. Waiting for Commission approval to negotiate a contract.
9. **Est. Project Construction Start Date:** November 2009
10. **Estimated Project Cost:** \$3.5 million

KANSAS PUBLIC WATER SUPPLY LOAN FUND
PROJECT SUBMITTAL FORM
KDHE - PUBLIC WATER SUPPLY
1000 SW JACKSON - SUITE 420
TOPEKA KS 66612-1367

1. Applicant Name: City of Lawrence, KS

2. Mailing Address: PO Box 708
Lawrence, KS 66044

3. Person Completing Form: Mike Lawless
Title: Assistant Director of Utilities
Phone: 785-832-7862

4. Project Description: Automation, Security & Energy Efficiency at WTPs
Fully implement SCADA controls at Clinton and Kaw WTPs including PLCs and network hardware and software. Implement security recommendations from the Vulnerability Assessment including CCTV and computer based access equipment. Install Ultra Low Harmonic Variable Frequency Drives in place of existing across the line motor starters.

5. Describe the problem the project will resolve: Implementation of these improvements will increase the reliability and safety of the WTPs, reduce chemical usage, increase energy efficiency and decrease the operational effect on the surrounding neighborhoods.

6. Est. Design Completion Date: Projects will be completed in house.

7. Status of Design (% complete): Outside consulting will be contracted as needed.

8. Estimated Project Construction Start Date: May 2009

9. Estimated Project Cost: \$1.0 million

NOTE: Please attach any preliminary engineering reports and/or engineering contracts associated with the project. Rural water districts need to provide the number of meters by township, on the back of this form. Use additional pages if necessary.

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TOPEKA KS 66612-1367

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3. Person Completing Form: Mike Lawless
Title: Assistant Director of Utilities
Phone: 785-832-7862
4. Project Description: In-house Water Main Replacement – This project will use in-house staff to replace 4-inch diameter and smaller water mains. These mains have been identified to be inadequate based on the size of the water main, water quality issues and reliability due to age and type of material. This project will fund the materials needed for construction with the City supplying the equipment and labor.
5. Describe the problem the project will resolve: The project will increase the reliability of the distribution system and reduce the water quality complaints from customers.
6. Est. Design Completion Date: Projects are completed in-house
7. Status of Design (% complete): On-going as construction work progresses.
8. Estimated Project Construction Start Date: May 2009
9. Estimated Project Cost: \$500,000

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4. Project Description: 2008-2009 Water Line Replacement – This project will replace about 17,000 of water line within the distribution system. The water lines are evaluated and selected based on main breaks, pipe material and age, capacity, fire protection needs, the criticality of the water line within the system and the number of services affected. This is an annual project recommended in the 2003 Water Master Plan.
5. Describe the problem the project will resolve: The project will increase the reliability of the distribution system, decrease maintenance costs, reduce customers without service and reduce energy costs from plant operations and equipment used in making repairs.
6. Est. Design Completion Date: October 2009
7. Status of Design (% complete): 5%
8. Estimated Project Construction Start Date: December 2009
9. Estimated Project Cost: \$2.0 million

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4. Project Description: SE Area Transmission Main Phase I – The project will provide a new water transmission main from the Kaw WTP to 23rd & O’Connell. The project is divided into three phases and includes 31,000 feet of 30-inch and 36-inch diameter pipe. The first phase includes one river crossing and connection into the water system of North Lawrence. The project is recommended in the 2003 Water Master Plan.
5. Describe the problem the project will resolve: The project will provide North Lawrence with a second, redundant water supply. At the present time there is a single 16-inch water main on the Kansas River bridge to supply water to North Lawrence.
6. Est. Design Completion Date: January 2010
7. Status of Design (% complete): 30%
8. Estimated Project Construction Start Date: March 2010
9. Estimated Project Cost: \$7.3 million

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