APPENDIX A

THE CITY OF JOPLIN'S 2026 ACTIVITIES PLAN of its SYSTEM RENEWAL & SSO PREVENTION PROGRAM

ACTIVITY	CALENDAR YEARS															
	-2 2017		-1 2018		1 2019		2 2020		3 2021		4 2022		5 2023		6 2024		7 2025		8 2026	
Flow Monitoring	All Basins				Facilities Plan Update & Rate Study										Rate Study					
Hydraulic Modeling			All Basins																	
Smoke Testing [1]					Priority 2 Basins	Priority 2 Basins	Priority 3 Basin		Priority 4 Basin		Priority 5 Basin		Priority 6 Basin		Priority 7 Basin		Priority 8 Basin			
Other Public I&I Evaluation [1]			Priority 1 Basins		Priority 1 Basins		Priority 2 Basins		Priority 3 Basin		Priority 4 Basin	Priority 4 Basin	Priority 5 Basin	Priority 5 Basin	Priority 6 Basin	Priority 6 Basin	Priority 7 Basin	Priority 7 Basin	Priority 8 Basin	Priority 8 Basin
Service Lateral Launches/Investigation					Priority 1 Basins		Priority 2 Basins		Priority 3 Basin		Priority 4 Basin	Priority 4 Basin	Priority 5 Basin	Priority 5 Basin	Priority 6 Basin	Priority 6 Basin	Priority 7 Basin	Priority 7 Basin	Priority 8 Basin	Priority 8 Basin
Evaluate Potential for Joint Stormwater Improvement Project [2]					Priority 1 Basins		Priority 2 Basins		Priority 3 Basin		Priority 4 Basin		Priority 5 Basin		Priority 6 Basin		Priority 7 Basin		Priority 8 Basin	
Implementation of Public Sewer Rehabilitation Methods [3]					Priority 1 Basins		Priority 2 Basins		Priority 3 Basin		Priority 4 Basin	Priority 4 Basin	Priority 5 Basin	Priority 5 Basin	Priority 6 Basin	Priority 6 Basin	Priority 7 Basin	Priority 7 Basin	Priority 8 Basin	Priority 8 Basin
Post Rehabilitation Flow Metering						Priority 1 Basins	Priority 1 Basins	Priority 2 Basins	Priority 2 Basins	Priority 3 Basin	Priority 3 Basin	Priority 4 Basin	Priority 4 Basin	Priority 5 Basin	Priority 5 Basin	Priority 6 Basin	Priority 6 Basin	Priority 7 Basin	Priority 7 Basin	Priority 8 Basin
Private-side I&I Program Development [4]						All Basins														
Private I&I Program Implementation (if warranted)								Priority 1 Basins	Priority 1 Basins	Priority 2 Basins	Priority 2 Basins	Priority 3 Basin	Priority 3 Basin	Priority 4 Basin	Priority 4 Basin	Priority 5 Basin	Priority 5 Basin	Priority 6 Basin	Priority 6 Basin	Priority 7 Basin
Evaluate Program Performance [5]										Priority 1 Basins	Priority 1 Basins	Priority 2 Basins	Priority 2 Basins	Priority 3 Basin	Priority 3 Basin	Priority 4 Basin	Priority 4 Basin	Priority 5 Basin	Priority 5 Basin	Priority 6 Basin
Peak Flow Management Improvements (if necessary) [6,7]												Priority 1 Basins			Priority 2 Basins			Priority 3 Basin		
Ongoing System Renewal Program									All Basins											
MDNR Meeting to Discuss Program Implementation				All Basins		All Basins		All Basins		All Basins		All Basins		All Basins		All Basins		All Basins		All Basins
Update Hydraulic Model												All Basins								

Notes:

A. "Priority Basins" above are for illustrative purposes only. Prioritization of basins shall be determined based on the results of hydraulic modeling and cost-effective analysis, in conjunction with other factors and/or improvement obligations within the City's annual expenditures.

B. Program implementation will progress based upon adaptive evaluations to identify the areas that will deliver the greatest benefits from the public dollars invested.

Footnotes:

1. Smoke testing, manhole inspections, dyed-water testing, and CCTV inspections are examples of I&I evaluations that can be performed within that part of the sanitary sewer system that is owned and maintained by the City.

2. The purpose of this activity is to evaluate the potential for coordinated stormwater improvement projects in an effort to maximize the effectiveness of I&I reduction efforts.

3. Best efforts will be made to implement a cost-effective approach for rehabilitation of public side sanitary sewer lines.

4. The development of a Private-side I&I program must first be approved by the Joplin City Council. The schedule for implementation will be adjusted accordingly, once approved.

5. Program evaluation occurs after any private-side I/I work is done in any given basin, using post-rehabilitation flow data to determine if the impact of the improvements met the program's objectives and goals.

6. Examples of peak flow management improvements include relief sewers, upsizing pipes, increased pumping capacities, or off-line storage.

7. In certain basins, it may be appropriate to construct peak flow management infrastructure after completing rehabiliation and program evaluation in the larger basin.

ADDITIONAL DETAILS of THE CITY OF JOPLIN'S 2026 ACTIVITIES PLAN of its SYSTEM RENEWAL & SSO PREVENTION PROGRAM

Estimates of targeted rehabilitation quantities for the years of the Program are indicated below. These numbers are preliminary and actual performance will likely vary from year to year. Over the life of the Program the goals are expected to be met.

Basins selected in any given year are subject to change; see notes "A" and "B" on page 1.

Interim Milestone: Year 1 - 2019

Basin(s)	I/I Basin Rank	CIPP or New PVC (LF)	Lateral Connection Repairs (EA)	Manhole Rehab (EA)	Smoke Testing (LF) (For Year 2 Basins)	Lateral Launches (EA)
Cleveland (H12-90)	11 *	3,700	90	15	23,500	110
Roanoke 30 (K08-265)	20 *					

* These basins were smoke tested in previous years, and were thus chosen as Early Action Areas.

Interim Milestone: Year 2 - 2020

Basin(s)	I/I Basin Rank	CIPP or New PVC (LF)	Lateral Connection Repairs (EA)	Manhole Rehab (EA)	Smoke Testing (LF) (For Year 3 Basin)	Lateral Launches (EA)
West Joplin (K12-170)	3	3,700	90	15	19,500	300
East Highland (N10-15)	9					

Interim Milestone: Year 3 - 2021

Basin(s)	I/I Basin Rank	CIPP or New PVC (LF)	Lateral Connection Repairs (EA)	Manhole Rehab (EA)	Smoke Testing (LF) (For Year 4 Basins)	Lateral Launches (EA)
Willow Branch (M10-340)	2	3,700	90	15	17,000	300

1ST MILESTONE: Years 1 - 3 (2019 - 2021)

By the end of the 1st Milestone Period (December 31, 2021), the City will have completed the following quantities of renewal work:

ACTIVITY	CIPP or New PVC (LF)	Lateral Connection Repairs (EA)	Manhole Rehab (EA)	Smoke Testing (LF)	Lateral Launches (EA)
QUANTITIES	**11,100**	**270**	**45**	**60,000**	**710**

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Interim Milestone: Year 4 - 2022

Basin(s)	I/I Basin Rank	CIPP or New PVC (LF)	Lateral Connection Repairs (EA)	Manhole Rehab (EA)	Smoke Testing (LF) (For Year 5 Basin)	Lateral Launches (EA)
Priority 4 Basin	4	2,300	80	13	26,000	275

Interim Milestone: Year 5 - 2023

Basin(s)	I/I Basin Rank	CIPP or New PVC (LF)	Lateral Connection Repairs (EA)	Manhole Rehab (EA)	Smoke Testing (LF) (For Year 6 Basin)	Lateral Launches (EA)
Priority 5 Basin	7	2,300	80	13	26,000	275

Interim Milestone: Year 6 - 2024

Basin(s)	I/I Basin Rank	CIPP or New PVC (LF)	Lateral Connection Repairs (EA)	Manhole Rehab (EA)	Smoke Testing (LF) (For Year 7 Basin)	Lateral Launches (EA)
Priority 6 Basin	8	2,300	80	13	26,000	275

2ND MILESTONE: Years 1 - 3 (2022 - 2024)

By the end of the 2ND MILESTONE Period (December 31, 2024), the City will have completed the following quantities of renewal work:

ACTIVITY	CIPP or New PVC (LF)	Lateral Connection Repairs (EA)	Manhole Rehab (EA)	Smoke Testing (LF)	Lateral Launches (EA)
QUANTITIES	**6,900**	**240**	**39**	**78,000**	**825**

Prior to Year 7, the City proposes to discuss program successes and strategies for the coming years. Afterwards, the 3rd Milestone period's targeted rehabilitation quantities can be estimated.

Interim Milestone: Year 7 - 2025

Basin(s)	I/I Basin Rank	CIPP or New PVC (LF)	Lateral Connection Repairs (EA)	Manhole Rehab (EA)	Smoke Testing (LF) (For Year 8 Basin)	Lateral Launches (EA)
Priority 7 Basin	5	2,300	80	13	26,000	275

Interim Milestone: Year 8 - 2026

Basin(s)	I/I Basin Rank	CIPP or New PVC (LF)	Lateral Connection Repairs (EA)	Manhole Rehab (EA)	Smoke Testing (LF)	Lateral Launches (EA)
Priority 8 Basin	10	2,300	80	13	-	275