City of Livingston

GREEN ACRES SEWER EXTENSION STUDY

MARCH 15, 2022





INTRODUCTION & HISTORY

- Green Acres Subdivision was platted in 1959
- 2003 PER recommended Green Acres be connected to the sewer collection system
- Green Acres was annexed into the City in 2020
- 2020 PER listed this project as a priority for sewer extension
- 2021 Growth Policy acknowledged the large volume of septic tanks within the City, stating:

"Over 100 properties in the City utilize septic systems. They are mostly located in the southern half and north-eastern corner of the City, with concentrations in the Green Acres, south-eastern, and Fleshman Creek Neighborhoods."



OVERVIEW

The primary goal for this project for Green Acres Subdivision is to provide reliable sewer services, protect drinking water, and protect environmental quality. Secondary goal is to update the existing water system to comply with current regulations and increase system reliability and increase fire flows. Public engagement was prioritized during this study. The outline for this presentation is:

- Reasons for the Project
- Alternatives
- Recommendations
- Next Steps
- Comments and Questions



REASONS FOR THE PROJECT



Sewer

- Provide City sewer service to Green Acres
- Eliminate the high density of private septic systems. Support City, DEQ and Park County to eliminate septic systems
- State subdivision requirements for private septic systems require connection to public system if the subdivision is located within 500 feet of a public system (ARM 17.36.328)
- Eliminate contamination risk to ground water and surface water quality



REASONS FOR THE PROJECT



• Water

- Aging water mains roughly 60 years old, asbestos cement pipe
- No water mains in Tana Lane and N. Park Street
- Water services crossing property lines
- Inadequate valving in the system
- Inadequate number of fire hydrants
- No looped water dead-ends present



ALTERNATIVE 1

NEW SANITARY SEWER-STREET ALIGNMENT

- Install gravity mains within City street right-of-way
- Minor utility conflicts
- Routine operation and maintenance of system for Public Works staff
- Residents responsible for connecting sewer service in the street
- Traffic control and street closures expected during construction but access to homes will be required

	Estimated Cost
Construction Cost Estimate	\$1,974,000
Average Property Owner SID Contribution	\$21,500
City SID Contribution	\$196,000





ALTERNATIVE 2

NEW SANITARY SEWER-UTILITY EASEMENT ALIGNMENT

- Install sewer gravity mains within backyard utility easement
- Significant utility conflicts
 - Overhead power lines, underground utilities
- Create alleys for future maintenance of sewer mains residents lose roughly 800 sf of backyard
- Construction activity occurring in backyards: 15-foot deep trench
- Loss of mature trees anticipated
- Minimal traffic control at street crossings and in Maple Street and Park Drive
- Simplified service connections

	Estimated Cost
Construction Cost Estimate	\$2,752,000
Average Property Owner SID Contribution	\$29,500
City SID Contribution	\$308,000



ALTERNATIVE 3 MINIMAL WATER SYSTEM IMPROVEMENTS

- Install valves and fire hydrants to comply with today's regulatory standards
- Allow City staff to isolate sections of main
- Increases fire protection
- Does not address dead ends

	Estimated Cost
Construction Cost Estimate	\$156,000
Average Property Owner SID Contribution	\$1,300
City SID Contribution	\$17,500





ALTERNATIVE 4

WATER SYSTEM REPLACEMENT AND EXPANSION

- Replaces existing, aging water mains
- Expands water system to reduce dead-end mains
- Adds required fire hydrants and water valves
- Eliminates service connections that cross neighboring properties
- Increases fire protection
- Allow City staff to isolate sections of main

	Estimated Cost
Construction Cost Estimate	\$3,004,000
Average Property Owner SID Contribution	\$25,000
City SID Contribution	\$336,000





RECOMMENDED PROJECT SUMMARY

- Alternative 1 New Sanitary Sewer Street Alignment
 - Total Cost: \$1.97 Million
 - Average Property Owner SID Contribution: \$21,500 (includes \$4,506 for Impact Fees and \$2,040 for Brookstone Sewer Payback)
 - City SID Contribution: \$196,000
- Alternative 3 Minimal Water System Improvements
 - Total Cost: \$156,000
 - Average Property Owner SID Contribution: \$1,300
 - City SID Contribution: \$17,500
- ARPA funding is being pursued to reduce costs to residents. Estimated costs presented do not include impact of grant funds that may be awarded.



NEXT STEPS

- ARPA grant funding
 - ARPA funding is being pursued to reduce costs to residents. Estimated costs presented do not include impact of grant funds that may be awarded.
- Regional sewer extension to include Montague Subdivision
- Project schedule
- Special Improvement District (SID) creation to fund the project. SID amount will include impact fees and payback fees

Table 4-3 Proposed Implementation Schedule		
Task	Estimated Completion Date	
ARPA Grant Application	January 2022	
ARPA Grant Results	March 2022	
Start Engineering Design	March 2022	
Preliminary Construction Plans and Specifications Complete	May 2022	
Agency Comments on Construction Plans and Specifications	June 2022	
Final Construction Plans and Specifications Complete	July 2022	
Advertise for Construction Bids	September 2022	
Award Construction Contract	October 2022	
Begin Construction	April 2023	
Construction Complete	October 2023	
Two-Year Warranty Inspection	October 2025	







- Future City Commission engagement and decision points
 - SID creation and administration
 - Requirement for time to connect to new sewer
 - Impact fee assessment full amount or other?



COMMENTS & QUESTIONS?

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