



September 16, 2019

Mr. Ed Horne  
Chairman of Impact Fee Committee  
175 Elizabeth Park Blvd.  
Liberty Hill, TX 78642

Re: 10-year Capital Improvement Plan

Dear Mr. Horne:

The City of Liberty Hill is experiencing significant growth within the water and wastewater service areas. To assist in the planning for improvements to handle the growth, the City engaged Steger Bizzell to prepare a Capital Improvement Plan that identifies the short-term improvements needed within the next 10 years. Figure 1 shows the City's water Certificate of Convenience and Necessity (CCN) and Figure 2 shows wastewater CCN boundaries as well as the existing and future developments that will be served by the water and wastewater utilities.

Based on historical population growth and known plans for the development of new subdivisions within the water and wastewater service areas, the City of Liberty Hill's (City) utility systems are projected to have significant growth. The Water system is expected to grow system-wide with a 10.2% annual average growth rate. This results in growth from the existing 741 connections in early 2018 to 1,958 connections by the end of 2028.

The Wastewater system is expected to grow system-wide with a 11.5% annual average growth rate. This results in growth from the existing 4,413 connections in 2018 to almost 13,089 connections in 2028. Table 1 shows the anticipated water system growth.

This capital improvement program identifies improvements to serve the projected population growth in the City's utility customers by identifying a series of capital improvement project recommendations to increase water production, storage, pumping and transmission capacity as well as wastewater collection, pumping, and treatment improvements needed to meet the 10-year growth demands. The recommended water and wastewater projects are identified in Tables 2 and 3 respectively. Maps showing the water and wastewater projects are shown in Figures 3 and 4 respectively. The associated detailed cost summaries can be found in Appendices of this letter.

As these projects are implemented, the City will see the following benefits:

- Increase in fire flow capacity within the downtown area
- Service life extension of existing infrastructure
- Increase in water supply sources to meet long-term future demands
- Improved system operating efficiency by improving transmission line capacity, adding elevated storage, and decommissioning older existing facilities

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- Increase wastewater treatment capacity
- Increased wastewater lift station and force main capacity to meet high growth area demand
- Increased wastewater gravity capacity to reduce reliance on lift station and force main infrastructure
- Overall efficient, cost-effective use of capital expenditures to meet current and future growth demands

This plan also identifies a sequence of construction for these projects that will keep the City in compliance with applicable regulations and bring additional system capacity online in time to meet future system demand.

If you have any questions or additional comments, please feel free to me at (512) 930-9412.

Sincerely,



Curtis R. Steger, P.E.

Appendix 1: - Water Project Cost Estimates

Appendix 2: - Wastewater Project Cost Estimates