



## Work Session Agenda Summary

January 10, 2023

Sean Chambers, Water & Sewer Director

### **Title:**

Water & Sewer Department Updated Design Criteria & Construction Specification

### **Background:**

Current Water & Sewer utility design criteria, standards and specification date back to 2008. The updates incorporate new techniques, materials, updated best practices, and revisions required by subsurface utility law. Updating the design standards helps to ensure quality utility infrastructure is installed appropriately to serve the community for generation.

The update incorporates the findings and analysis from recent Water & Sewer Dept. infrastructure master plans covering Non-Potable Water, Sanitary Sewer, and Potable Water Transmission & Distribution. These updates align with the City's development code updates in 2021 and the 2022 Water Efficiency Plan. These updates support maintaining a high level of service reliability for water and sewer customers.

The updated design criteria for the potable water distribution, sanitary sewer collection, non-potable irrigation system, and landscape & irrigation will guide developers and engineers in connecting to the City's utilities. The changes include added guidance and criteria for sewer lift station design, non-potable system design criteria, and updated criteria incorporating recent development code changes. Also included are provisions for compliance with changes to Subsurface Utility Engineering (SUE) law. Lastly, to ensure long lasting community vitality, the criteria have a sixth section that provides guidance on commercial landscape & irrigation design.

The Water and Sewer Department coordinated internal review with other city departments and incorporated feedback through the stakeholder and peer review processes. City Planning and Engineering & Design Review (EDR) staff played a vital role in review and refinement of the updated documents, providing feedback for consistency with other planning documents and city code. Stakeholder workshops with the Builders, Realtors, Developer, Landscape and Irrigation stakeholders were held from July 2021 through December 2022 to collect feedback and apply the insights and wisdom of stakeholder community. The Water & Sewer Dept. tracked comments and questions from private sector engineers, developers, landscape professionals and irrigation stakeholders.

The process has produced a solid and clear set of design criteria, standards, and specifications that meet all regulatory and legal requirements. The updated document provides the building and development community with authorization to utilize updated techniques and materials, many of which are a cost savings over older techniques, and guidance that conforms with Greeley master plans, code and updates to subsurface utility laws.

The Water and Sewer Board, and the Planning Commission have each had extensive reviews and feedback from each have been incorporated into the update. The Water & Sewer Board and the Planning Commission have both formally approved the updated Design Criteria, Standards and Specifications.

The Water & Sewer staff is seeking to inform the Council on this important document and make themselves available to answer questions before the item moves forward for formal action.

**Strategic Focus Area:**



**Community Vitality**



**Infrastructure and Mobility**

**Attachments:**

Design Criteria  
Standard Detail Drawings  
Construction Specifications